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Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
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inquiries@azgs.az.gov

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March 25 1981

Dear Dave

Here are the complete Bouguer Anomalies. I am going to check to see validity of that one point on line A. To do this I shall do a theoretical model and see if this kind of variation can be accounted for

I will be anticipating your reply on this data and any further requests.

Walter Arabasz

TABLE I

Milligal Values for LaCoste & Romberg, Inc. Model G Gravity Meter # 234

Counter Reading*	Value in Milligals	Factor for Interval	Counter Reading*	Value in Milligals	Factor for Interval
000	000	1.06130			
100	106.13	1.06126	3600	3823.54	1.06414
200	212.26	1.06122	3700	3929.95	1.06425
300	318.38	1.06119	3800	4036.38	1.06435
400	424.50	1.06115	3900	4142.81	1.06444
500	530.61	1.06113	4000	4249.25	1.06450
600	636.73	1.06111	4100	4355.70	1.06457
700	742.84	1.06110	4200	4462.16	1.06465
800	848.95	1.06110	4300	4568.63	1.06472
900	955.06	1.06111	4400	4675.10	1.06482
1000	1061.17	1.06114	4500	4781.58	1.06488
1100	1167.28	1.06117	4600	4888.07	1.06494
1200	1273.40	1.06124	4700	4994.56	1.06495
1300	1379.52	1.06132	4800	5101.06	1.06495
1400	1485.65	1.06140	4900	5207.55	1.06496
1500	1591.79	1.06150	5000	5314.05	1.06500
1600	1697.94	1.06160	5100	5420.55	1.06500
1700	1804.10	1.06173	5200	5527.05	1.06500
1800	1910.28	1.06185	5300	5633.55	1.06497
1900	2016.46	1.06196	5400	5740.05	1.06490
2000	2122.66	1.06208	5500	5846.54	1.06480
2100	2228.87	1.06220	5600	5953.02	1.06466
2200	2335.09	1.06234	5700	6059.48	1.06452
2300	2441.32	1.06246	5800	6165.93	1.06436
2400	2547.57	1.06260	5900	6272.37	1.06422
2500	2653.83	1.06275	6000	6378.79	1.06406
2600	2760.10	1.06290	6100	6485.20	1.06387
2700	2866.39	1.06305	6200	6591.58	1.06365
2800	2972.70	1.06314	6300	6697.95	1.06340
2900	3079.01	1.06323	6400	6804.29	1.06310
3000	3185.33	1.06332	6500	6910.60	1.06282
3100	3291.67	1.06345	6600	7016.88	1.06252
3200	3398.01	1.06358	6700	7123.13	1.06220
3300	3504.37	1.06375	6800	7229.35	1.06185
3400	3610.74	1.06390	6900	7335.54	1.06150
3500	3717.13	1.06403	7000	7441.69	

Note: Right hand wheel on counter indicates approximately 0.1 Milligal.

AWS
5-6-70

HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE (602) 623-0578

February 6, 1981

Mr. Mike Brophy
Host Ventures, Inc.
101 N. First Avenue
Phoenix, AZ 85003

Attention: Mike Brophy

Re: GEOEX #1503

Gentlemen:

In regard to our phone conversation of February 6, 1981.

On or about February 10, 1981, Heinrichs GEOEXploration will supply complete customary two-man crew and equipment to conduct a standard preliminary reconnaissance simultaneous gravity, seismic and magnetic survey.

Below is an itemization of approximate costs.

$ 0.35/mile

$25.00 per day for vehicle (estimate 3 days)

$35.00 per day, per diem, per person (estimate 3 days)

$35.00 per day, rent on gravimeter (estimate 7 days)

$150.00 rent on seismometer

$15.00 per hour non-technical personnel (24 hours)

$20.00 per hour for technical personnel (24 hours)

$25.00 per hour for report writing

Plus 15% - contingent items, freight, expendible direct job supplies,etc.

Based on these rates we estimate a total cost of roughly $2500 to $2750 for the job.

As customarily done in the industry, we expect an advance on account of half the estimated job as our firm notice to proceed. However, owing to extenuating circumstances at your end we agree to make an exception in this case, however, we will expect to receive payment of $1750.00 as soon as possible and our statement in that amount is herewith submitted accordingly. Balance of the contract will be billed due and payable upon completion of field work, excepting charges for compiling final data and report.

For mutual convenience, if this proposal is accepted you may so execute as indicated below on the extra copy of this letter provided and return same to us.

Sincerely,

Heinrichs GEOEXploration Company

Walter E. Heinrichs, Jr.
Geological Engineer - Geophysicist
P.E. & C.P.G.

Accepted: Feb. 10, 1981 (date)

By: David L Kuck

Title: Agent

WEH:mt
cc: enclosed
cc: File

cc: Mr. Dave Kuck, 150 Pedro Place, Oracle, AZ 85623 ✓

HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

February 6, 1981

STATEMENT

Mr. Mike Brophy
Host Ventures, Inc.
101 N. First Avenue
Phoenix, AZ 85003

Re: Gravity, Seismic,
and magnetic survey
GEOEX #1503

PROFESSIONAL FEES & SERVICES:

Advance on account to be allocated against
future itemized billings ----------$1750.00

(301)

979 500

Feb. 10 P= 9.5

33, 40 47

	N	S
14	85	70
15	110	75
16	130	80
17	135	75

-0.015

A-1	979,501.230	
A-2	979,504.372	126.01
A-3	979, 506.24	124.92
A-4	979, 499.95	

Feb 11 P= 9.0

	N	S
8	25	125
9	15	105
10	10	85
11	10	70
12	20	55
13	35	45
14	60	45
15	90	45
16	115	45
17	135	45
18	145	40

A-5	979,499.361
A-6	979,498.740
A-7	979,499.166
A-8	979,497.722
A-9	979, 498.369
A-10	979, 495.178
A-11	979, 496.334
A-12	979, 491.523
A-13	979, 484.935

B-1	979, 498.736
B-2	979, 497.886
B-3	979, 496.703
B-4	979, 495.235
B-5	979, 493.918
B-6	979, 493.222
B-7	979, 490.139
B-8	979, 487.149
B-9	979, 485.969
B-10	979, 486.998
B-11	979, 486.370

C-1	979, 485.246
C-2	979, 484.526
C-3	979, 480.559
C-4	979, 480.997
C-5	979, 485.834
C-6	979, 490.281
C-7	979, 492.002
C-8	979, 492.062
C-9	979, 492.473
C-10	979, 492.800
C-11	979, 493.447
C-12	979, 494.206
C-13	979, 495.593

Feb. 12 p = 8.5

	N	S
8	20	155
9	15	140 ✓
10	10	120 ✓
11	5	95 ✓
12	5	70

D-1	979, 493.078
D-2	979, 487.403
D-3	979, 491.514
D-4	979, 490.335
D-5	979, 490.180
D-6	979, 490.154
D-7	979, 486.888
D-8	979, 487.759
D-9	979, 486.131
D-10	979, 488.024
D-11	979, 488.840
D-12	979, 487.236
D-13	979, 486.348

GRAVITY DATA

STATION NUMBER	NORTH LATITUDE (DEG)	(MIN)	WEST LONGITUDE (DEG)	(MIN)	ELEV (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	CURV CORR (MGAL)	TERH CORR (MGAL)	TOPO CORR (MGAL)	COMPLETE BOUGUER ANOMALY RHO 2.67 (MGAL)	RHO 2.60 (MGAL)	RHO 2.40 (MGAL)	
A3	33	40.794	110	57.158	2552.99	979506.240	111.941	0.925	0.000	2.156	26.098	28.324	34.685	
A2	33	40.794	110	57.096	2584.99	979504.372	113.087	0.934	0.000	2.116	26.104	28.360	34.806	A
A1	33	40.794	110	57.038	2635.99	979501.230	114.749	0.948	0.000	2.018	25.914	28.218	34.801	
C13	33	41.783	110	57.180	2809.99	979495.593	124.130	0.995	0.000	2.363	29.659	32.110	39.112	
C12	33	41.783	110	57.122	2828.99	979494.206	124.532	1.000	0.000	2.356	29.401	31.869	38.920	C
C11	33	41.783	110	57.064	2836.99	979493.447	124.527	1.002	0.000	2.371	29.136	31.611	38.681	
B1	33	42.029	110	57.181	2783.99	979498.736	124.483	0.988	0.000	2.471	31.013	33.438	40.365	
B2	33	42.029	110	57.123	2792.99	979497.886	124.480	0.990	0.000	2.596	30.826	33.256	40.197	B
B3	33	42.030	110	57.065	2810.99	979496.703	124.991	0.995	0.000	2.599	30.722	33.167	40.154	
D1	33	42.532	110	57.302	2907.99	979493.078	129.807	1.020	0.000	3.124	32.729	35.248	42.443	
D2	33	42.532	110	57.241	3006.99	979487.403	133.457	1.045	0.000	2.872	32.726	35.340	42.807	
D3	33	42.532	110	57.183	2955.99	979491.514	132.764	1.032	0.000	2.968	33.881	36.446	43.776	
D4	33	42.533	110	57.125	2954.99	979490.335	131.490	1.032	0.000	3.060	32.733	35.295	42.615	D
D5	33	42.533	110	57.068	2950.99	979490.180	130.958	1.031	0.000	3.109	32.388	34.945	42.251	
D6	33	42.533	110	57.006	2950.99	979490.154	130.932	1.031	0.000	3.189	32.442	34.997	42.298	
A4	33	40.794	110	56.995	2657.99	979499.950	115.541	0.954	0.000	2.066	25.998	28.320	34.956	
A5	33	40.795	110	56.938	2673.99	979499.361	116.457	0.958	0.000	2.163	26.461	28.795	35.464	
A6	33	40.795	110	56.880	2688.89	979498.740	117.240	0.963	0.000	2.102	26.670	29.020	35.732	
A7	33	40.795	110	56.819	2703.99	979498.166	118.088	0.967	0.000	2.115	27.013	29.375	36.125	
A8	33	40.796	110	56.761	2716.99	979497.722	118.867	0.970	0.000	2.075	27.305	29.680	36.466	
A9	33	40.796	110	56.703	2708.99	979498.369	118.761	0.968	0.000	2.211	27.609	29.974	36.729	A
A10	33	40.797	110	56.641	2700.99	979495.178	114.815	0.966	0.000	2.545	24.273	26.621	33.331	
A11	33	40.797	110	56.584	2758.99	979496.334	121.434	0.981	0.000	2.758	29.111	31.506	38.348	
A12	33	40.797	110	56.526	2834.99	979491.523	123.781	1.001	0.000	2.892	28.980	31.439	38.465	
A13	33	40.798	110	56.464	2945.99	979484.935	127.648	1.030	0.000	3.049	29.189	31.743	39.041	
C10	33	41.782	110	56.999	2846.99	979492.800	124.823	1.004	0.000	2.432	29.150	31.632	38.723	
C9	33	41.783	110	56.942	2859.99	979492.473	125.719	1.008	0.000	2.483	29.651	32.143	39.263	
C8	33	41.783	110	56.884	2867.99	979492.062	126.062	1.010	0.000	2.437	29.672	32.172	39.317	
C7	33	41.784	110	56.823	2871.99	979492.002	126.377	1.011	0.000	2.582	29.995	32.495	39.639	
C6	33	41.784	110	56.765	2900.99	979490.281	127.388	1.018	0.000	2.602	30.028	32.554	39.771	C
C5	33	41.784	110	56.708	2975.99	979485.834	130.005	1.037	0.000	2.478	29.945	32.541	39.959	
C4	33	41.785	110	56.647	3053.99	979480.997	132.514	1.057	0.000	2.715	30.011	32.671	40.270	
C3	33	41.785	110	56.589	3062.99	979480.559	132.924	1.059	0.000	2.778	30.175	32.841	40.458	
C2	33	41.786	110	56.532	2997.99	979484.526	130.767	1.043	0.000	2.890	30.363	32.968	40.411	
C1	33	41.786	110	56.471	2984.99	979485.246	130.262	1.040	0.000	3.593	31.008	33.582	40.939	
B4	33	42.033	110	57.003	2829.99	979495.235	125.309	1.000	0.000	2.626	30.414	32.875	39.909	
B5	33	42.033	110	56.946	2846.99	979493.918	125.593	1.004	0.000	2.685	30.173	32.648	39.720	
B6	33	42.033	110	56.888	2858.99	979493.222	126.028	1.007	0.000	2.816	30.326	32.809	39.902	
B7	33	42.033	110	56.827	2912.99	979490.139	128.031	1.021	0.000	2.664	30.322	32.857	40.099	
B8	33	42.033	110	56.769	2963.99	979487.149	129.845	1.034	0.000	2.612	30.331	32.912	40.289	B
B9	33	42.033	110	56.711	2985.99	979485.969	130.737	1.040	0.000	2.597	30.452	33.054	40.488	
B10	33	42.033	110	56.650	2965.99	979486.998	129.882	1.035	0.000	2.863	30.551	33.128	40.491	
B11	33	42.033	110	56.592	2972.99	979486.370	129.914	1.036	0.000	3.189	30.667	33.242	40.599	
D7	33	42.534	110	56.946	3003.99	979486.888	132.657	1.044	0.000	3.071	32.228	34.834	42.278	
D8	33	42.534	110	56.888	2987.99	979487.759	132.021	1.040	0.000	3.257	32.327	34.914	42.303	

GRAVITY DATA

STATION NUMBER	NORTH LATITUDE (DEG)	(MIN)	WEST LONGITUDE (DEG)	(MIN)	ELEV (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	CURV CORR (MGAL)	TERH CORR (MGAL)	TOPO CORR (MGAL)	COMPLETE BOUGUER ANOMALY RHO 2.67 (MGAL)	RHO 2.60 (MGAL)	RHO 2.40 (MGAL)
D9	33	42.534	110	56.827	3013.99	979486.131	132.842	1.047	0.000	3.184	32.182	34.794	42.256
D10	33	42.534	110	56.769	2979.99	979488.024	131.532	1.038	0.000	3.455	32.311	34.885	42.240
D11	33	42.534	110	56.711	2959.99	979488.840	130.464	1.033	0.000	3.725	32.201	34.750	42.033
D12	33	42.534	110	56.650	2982.99	979487.236	131.027	1.039	0.000	3.906	32.154	34.719	42.048
D13	33	42.534	110	56.592	2993.99	979486.348	131.175	1.042	0.000	4.416	32.434	34.995	42.314

Line B

Map Coordinates
Line D 1-6

		1	2	3	AVE
B1	SW corner HV 14	5090	5090	5090	5090.00
	100'	5088	5088	5087	5089.67
	200'	5091	5092	5091	5091.67
B2	SEND center HV14	5096	5095	5095	5095.33
	100'	5092	5093	5092	5092.33
	200'	5094	5094	5093	5094.00
B3	SW corner HV16	5091	5091	5091	5091.00
	100'	5086	5086	5086	5086.00
	200'	5084	5083	5083	5083.33
B4	SEND center HV16	5089	5089	5089	5089.00
	100'	5086	5086	5086	5086.00
	200'	5084	5083	5083	5083.33
B5	SW corner HV18	5083	5084	5084	5083.67
	100'	5081	5081	5082	5081.33
	200'	5084	5084	5083	5083.67
B6	SEND center HV18	5069	5068	5068	5068.33
	100'	5071	5070	5070	5070.33
	200'	5073	5072	5073	5072.67
B7	SW corner HV20	5071	5068	5070	5,069.67
	100'	5076	5069	5069	5069.33
	200'	5072	5072	5072	5072.00
B8	SEND center HV20	5071	5071	5072	5071.33
	100'	5075	5074	5075	5074.67
	200'	5081	5079	5079	5076.67

LOCATION		1	2	3	Ave
	SW CORNER				
B9	HUZZ	5083	5083	5083	5083.00
	100'	5068	3069	5069	5068.67
	200'	5072	5072	5072	5072.00
	S END				
B10	center HUZZ	5073	5073	5073	5073.00
	100'	5077	5077	5077	5077.00
	200'	5077	5077	5078	5077.33
	SE CORNER				
B11	HUZZ	5078	5078	5079	5078.33

Line D

MAP COORDINATES

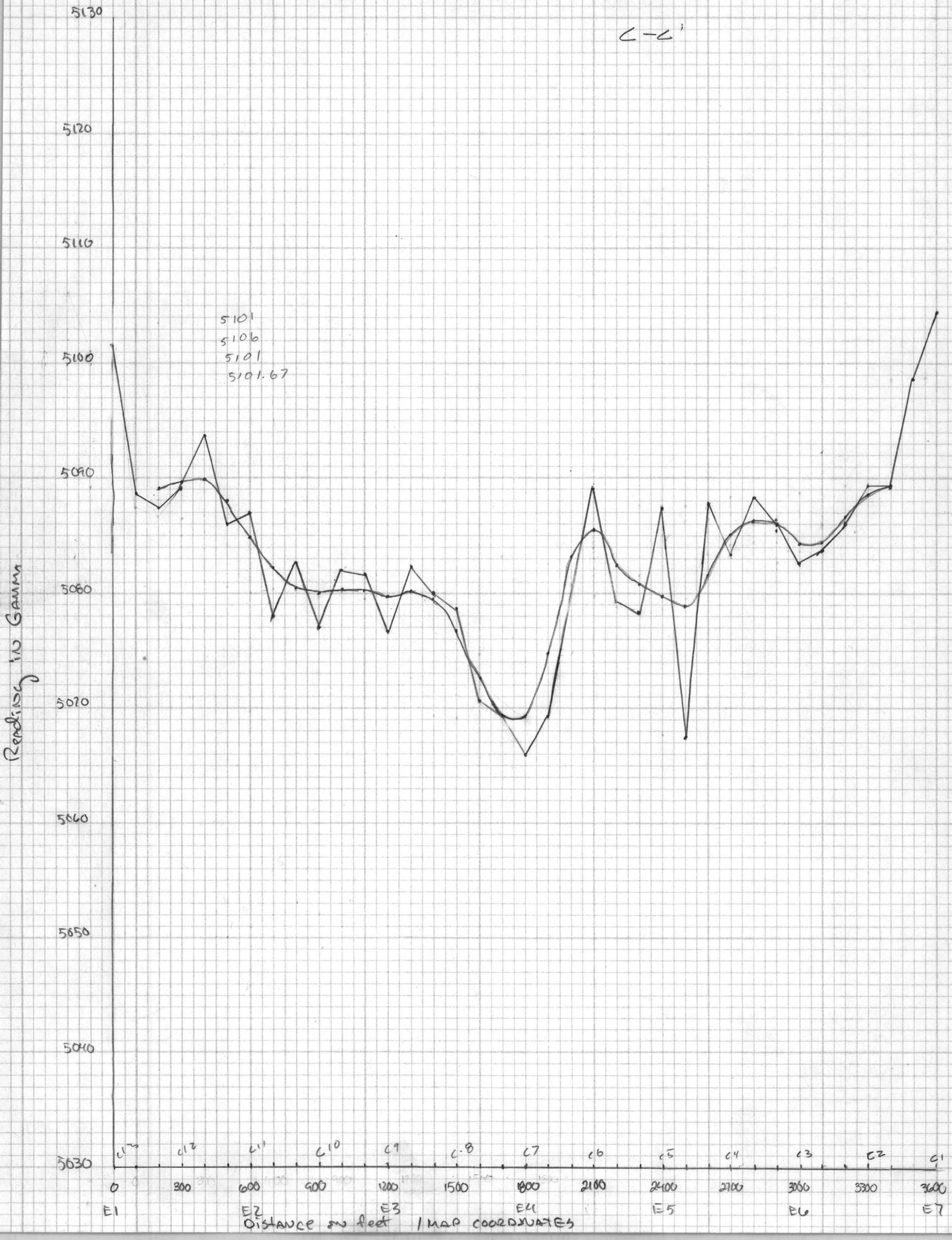
Line B Line G-6

	LOCATION	1	2	3	AVE
	NW CORNER				
D-1	HV 3	5036	5036	5039	5037.00
	100'	5074	5074	5073	5073.67
	200'	5100	5100	5100	5100.00
	NEND				
D-2	center HV3	5130	5130	5129	5129.67
	100'	5117	5117	5118	5117.33
	200'	5105	5105	5105	5105.00
	NE CORNER				
D3	HV3	5112	5112	5113	5112.33
	100'	5089	5089	5089	5089.00
	200'	5108	5109	5108	5108.33
	NEND				
D4	center HV5	5100	5099	5100	5099.67
	100'	5098	5098	5098	5098.00
	200'	5099	5100	5101	5100.00
	NE CORNER				
D5	HV5	5101	5102	5100	5101.00
	100'	5102	5104	5104	5103.33
	200'	5109	5109	5109	5109.00
	NEND				
D6	center HV7	5116	5117	5116	5116.33
	100'	5082	5082	5082	5082.00
	200'	5084	5084	5084	5084.00
	NE CORNER				
D7	HV7	5093	5093	5092	5092.67
	100'	5093	5093	5093	5093.00
	200'	5095	5095	5095	5095.00
	NEND				
D8	center HV9	5098	5098	5098	5098.00
	100'	5107	5105	5105	5105.67
	200	5111	5112	5111	5111.33

LOCATION	1	2	3	AVE
NE CORNER HUG	5105	5105	5105	5105.00
100'	5104	5103	5103	5103.33
200'	5105	5104	5104	5104.33
N END center HU11	5106	5108	5109	5107.67
100'	5111	5111	5110	5110.67
200'	5108	5108	5108	5108.00
NE CORNER HU11	5106	5106	5106	5106.00
100'	3101	3102	5101	5101.33
200'	5100	5099	5100	5099.67
N END center HU13	5098	5098	5098	5098.00
100	5103	5104	5105	5105.00
200	5100	5100	5101	5100.33
NE CORNER HU13	5098	5098	5098	5098.33

Magnetic Reading Line E 1-7

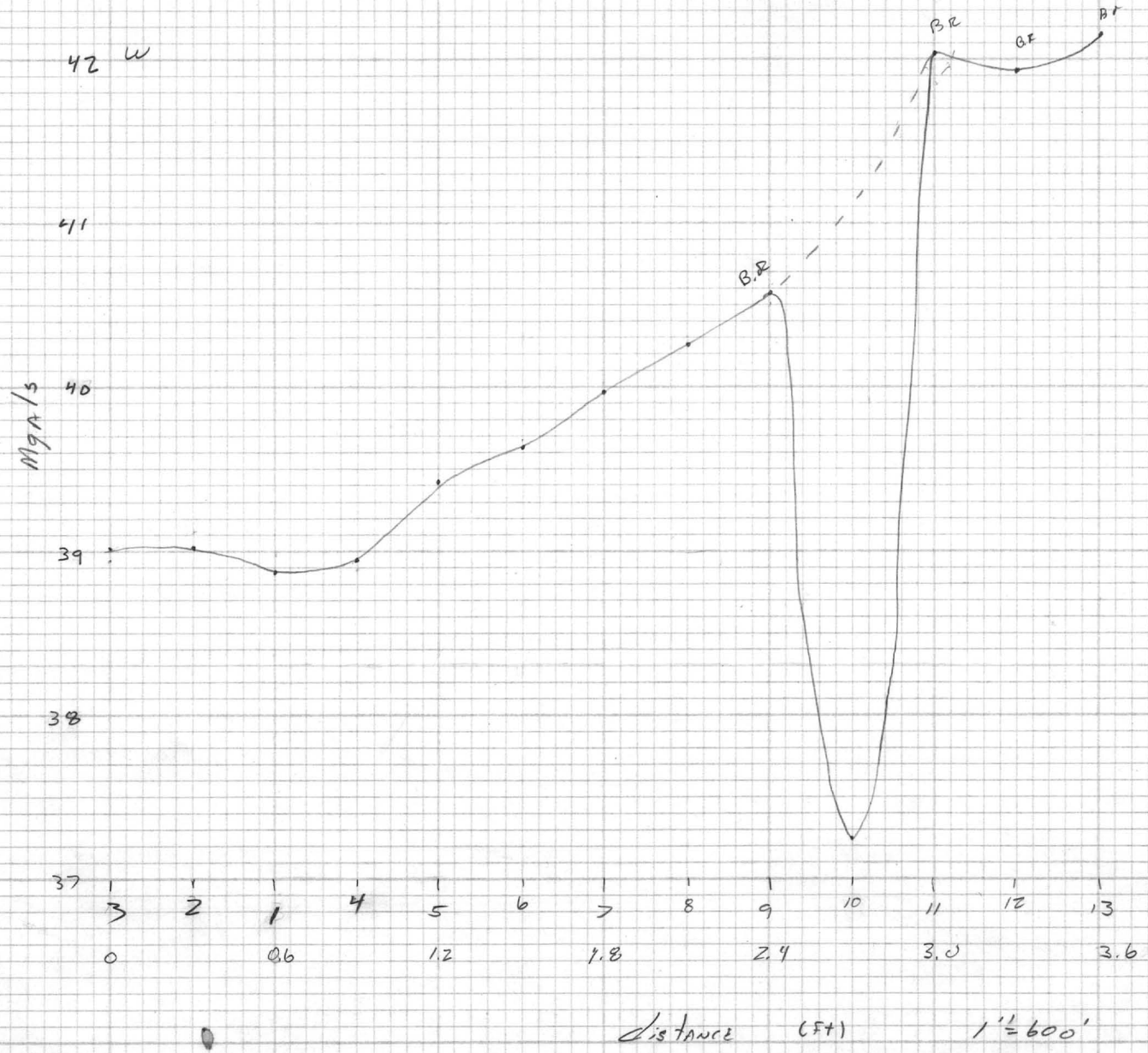
C-C'



A - A'

LINE I

Complete Bouguer Anomaly

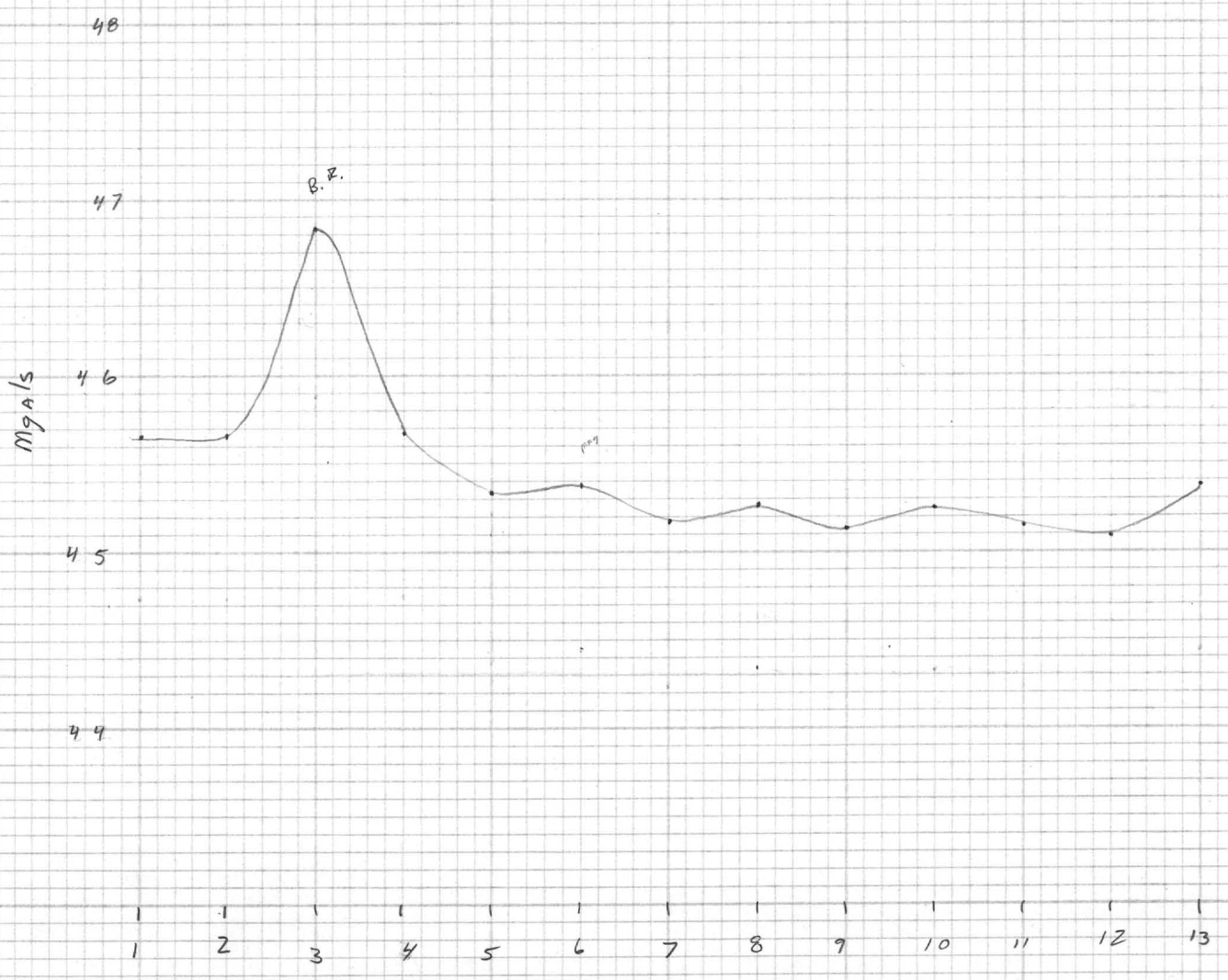


D-D'

W

Complete Bouguer Anomaly

E



Distance (Ft)

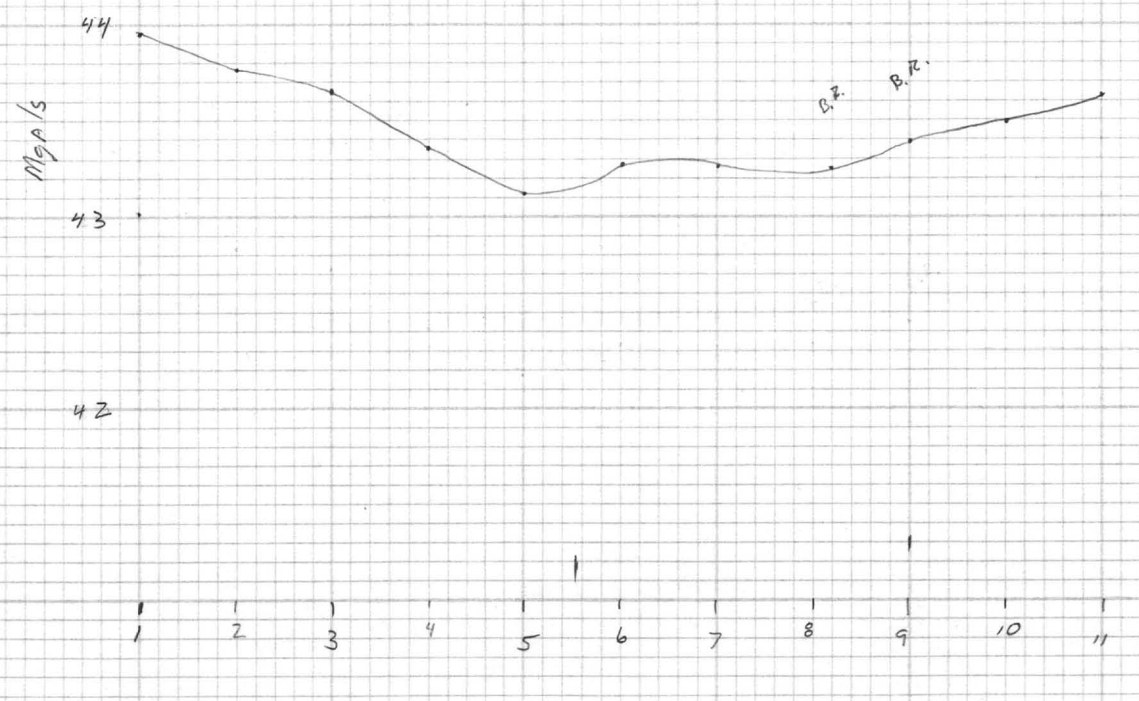
1" = 600'

B - B'

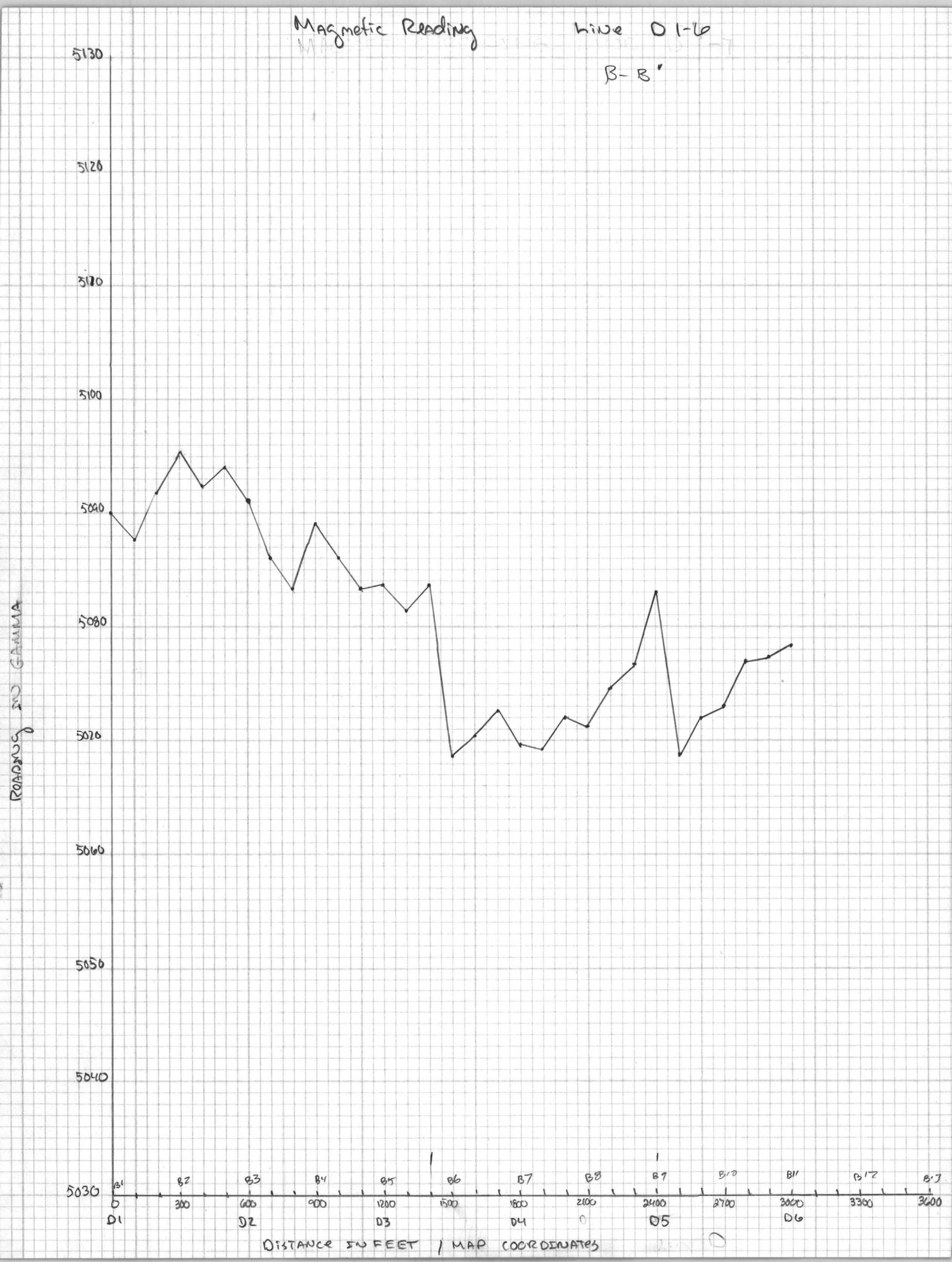
W

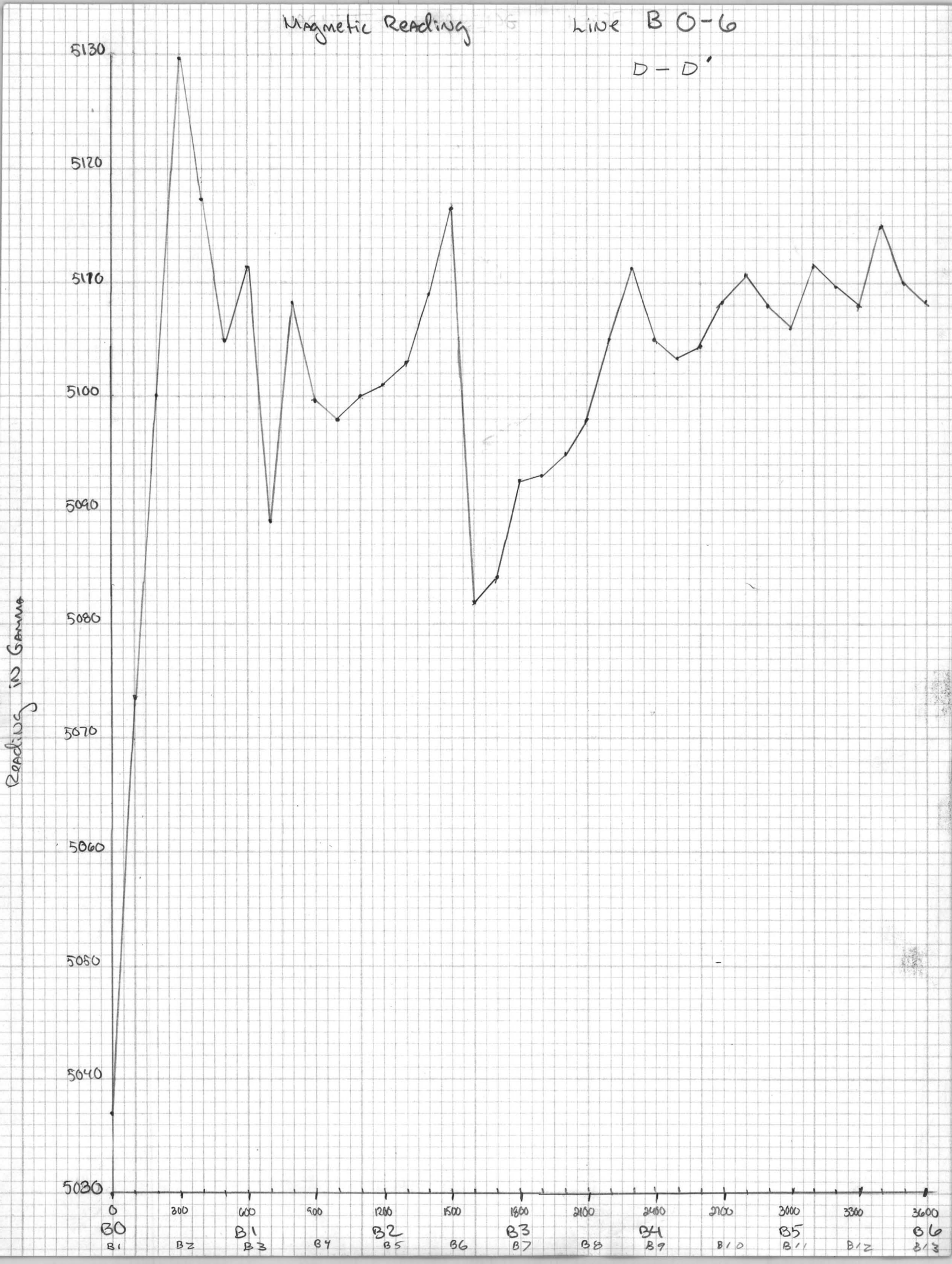
Complete Bouguer Anomaly

E



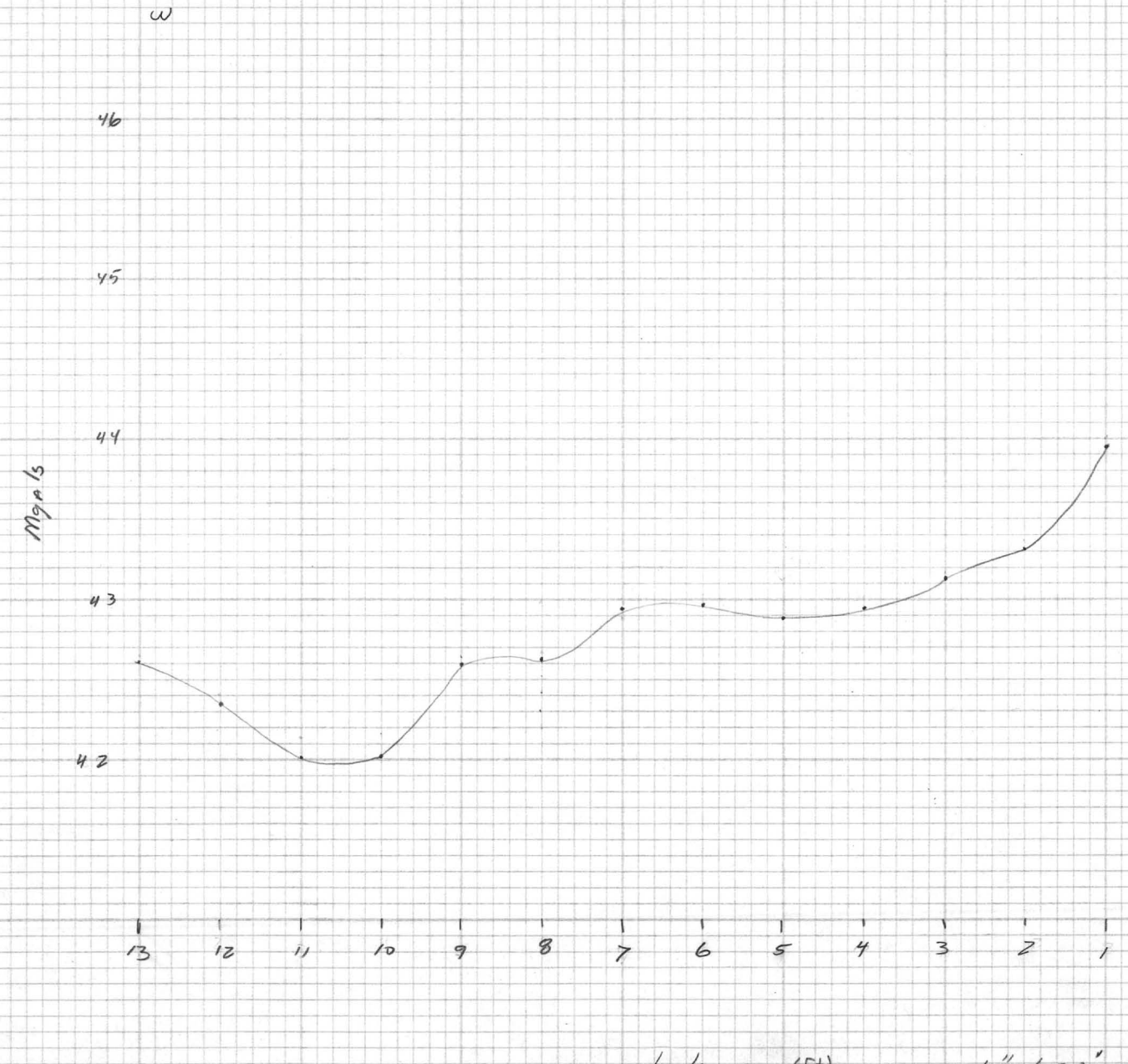
Distance (FT) 1" = 600'


Magnetic Reading
Line D1-6
B-B"
5130
5120
5110
5100
5090
5080
5070
5060
5050
5040
5030
READING IN GAMMA
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
0
300
600
900
1200
1500
1800
2100
2400
2700
3000
3300
3600
D1
D2
D3
D4
D5
D6
DISTANCE IN FEET / MAP COORDINATES


Magnetic Reading
Line B 0-6
D - D'
Readings in Gamma
5130
5120
5110
5100
5090
5080
5070
5060
5050
5040
5030
0
300
600
900
1200
1500
1800
2100
2400
2700
3000
3300
3600
B0
B1
B2
B3
B4
B5
B6
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13

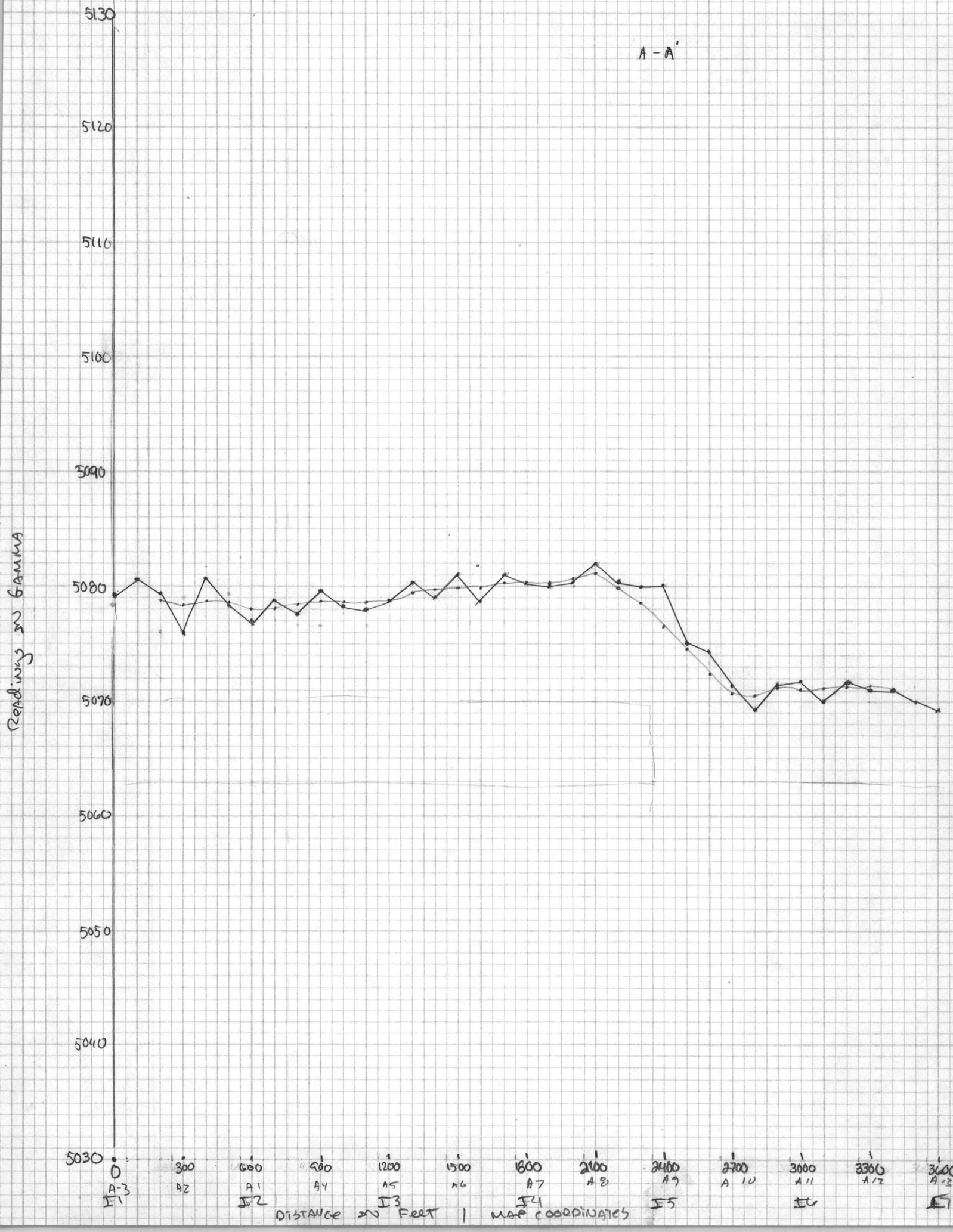
C - C'

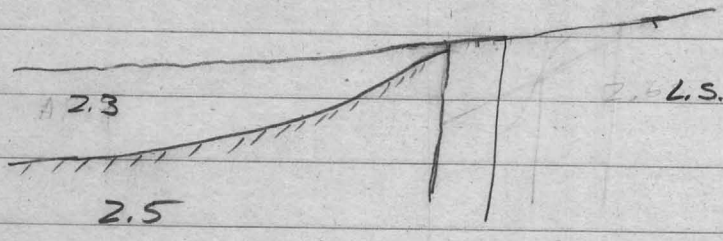
Complete Bouguer Anomaly



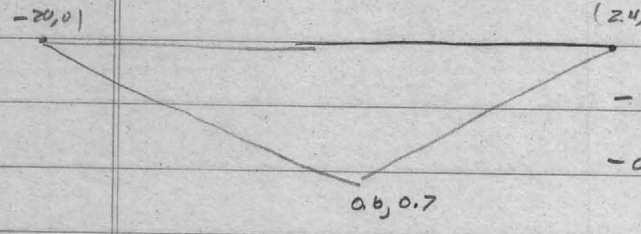
Magnetic Reading Line I 1-7

A - A'





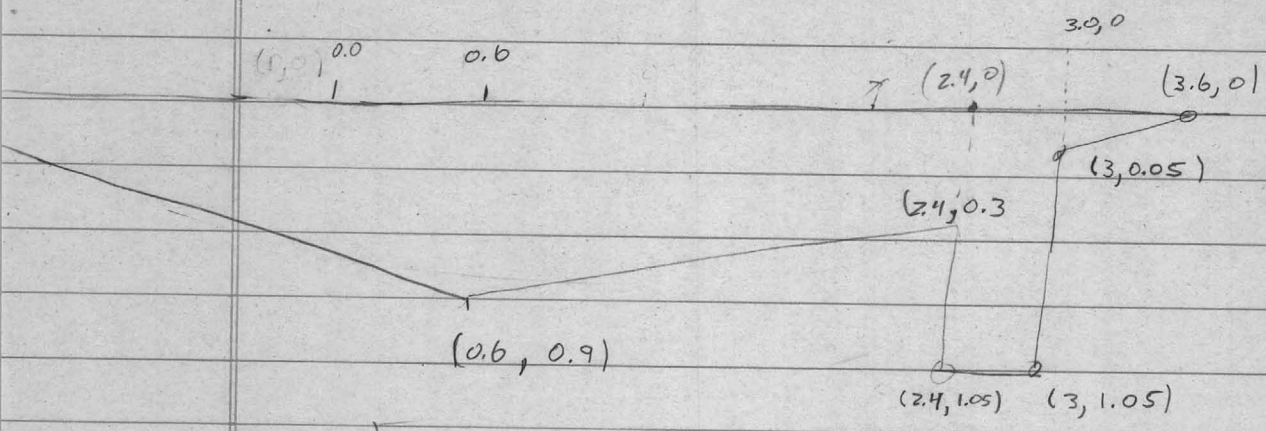
L.S. = 2.65



-0.2 (0.6,0) → -4.67

-0.1 → -2.33

1 kf



p = 0.5		p = -0.6	
(0,0)	→ 16.42	(-20,0)	= 0.0
(0.6,0)	→ 15.73	(0,0)	= -19.3
(2,0)	→ 12.19	(0.6,0)	= -18.6
(2.5,0)	→ 12	(1.8,0)	= -15.0
(3,0)	→ 8.61	(2.4,0)	= -14.3
(3.5,0)	→ 3.43	(2.7,0)	= -13.8
(3.6,0)	→ 5.84	(3.0,0)	= -10.2
(2.7,0)	→ 15.9	(3.6,0)	= -3.4
(4.0,0)	→ 0.0	(4.0,0)	= 0.0
(2.4,0)	→ 16.79		

2.7

2.5

Line C MAP COORDINATES

Line E Line 1-7

	Location	1	2	3	AVE
	NW corner				
C1	HV 24	5102	5102	5101	5101.67
	100'	5088	5090	5087	5088.33
	200'	5088	5088	5087	5087.67
	N END				
C2	center HV24	5089	5089	5089	5089.00
	100'	5093	5093	5095	5093.67
	200'	5086	5086	5086	5086.00
	NW CORNER				
C3	HV26	5087	5087	5087	5087.00
	100'	5079	5079	5079	5079.00
	200'	5082	5082	5083	5082.67
	N END				
C4	center HV26	5077	5077	5077	5077.00
	100'	5082	5082	5082	5082.00
	200'	5082	5081	5082	5081.67
	NW CORNER				
C5	HV28	5077	5076	5077	5076.67
	100'	5082	5082	5083	5082.33
	200	5080	5080	5080	5080.00
	N END C				
C6	center HV28	5080	5078	5078	5078.67
	100'	5071	5076	5071	5076.67
	200'	5076	5069	5069	5069.33
	NW CORNER				
C7	HV30	5066	5066	5066	5066.00
	100'	5069	5069	5070	5069.33
	200'	5091	5091	5090	5090.67
	N END				
C8	center HV30	5089	5090	5088	5089.00
	100'	5079	5080	5079	5079.33
	200'	5078	5078	5078	5078.33

	LOCATION	1	2	3	AVE
	NW CORNER				
C9	HU32	5087	5088	5087	5087.33
	100'	5068	5067	5068	5067.67
	200'	5087	5088	5088	5087.67
	N END				
C10	center HU32	5083	5084	5083	5083.33
	100'	5088	5088	5088	5088.33
	200'	5086	5086	5086	5086.00
	NW CORNER				
C11	HU34	5083	5083	5082	5082.67
	100'	5084	5084	5083	5083.67
	200'	5086	5086	5086	5086.00
	N END				
C12	CENTER HU34	5089	5088	5091	5089.33
	100'	5089	5090	5089	5089.33
	200'	5099	5099	5098	5098.67
	NE CORNER				
C13	HU34	5104	5104	5105	5104.33
					5113.00

Smoothed Mag. data

	C-C'	
5,089.17		5082.5
5,089.65		5080.8
5089.95		5079.8
5088.0		5078.9
5,084.9		5081.6
5,082.2		5085.0
5,080.5		5086.2
5080.0		5085.5
5,080.4		5084.2
5,080.3		5084.4
5,079.8		5086.3
5,080.1		5088.7
5,079.6		5042.2
5,076.7		
5,072.6		
5069.3		
5069.1		
5074.8		
5083.1		
5085.5		

LINE A

MAP COORDINATES
Line E Line 1-7

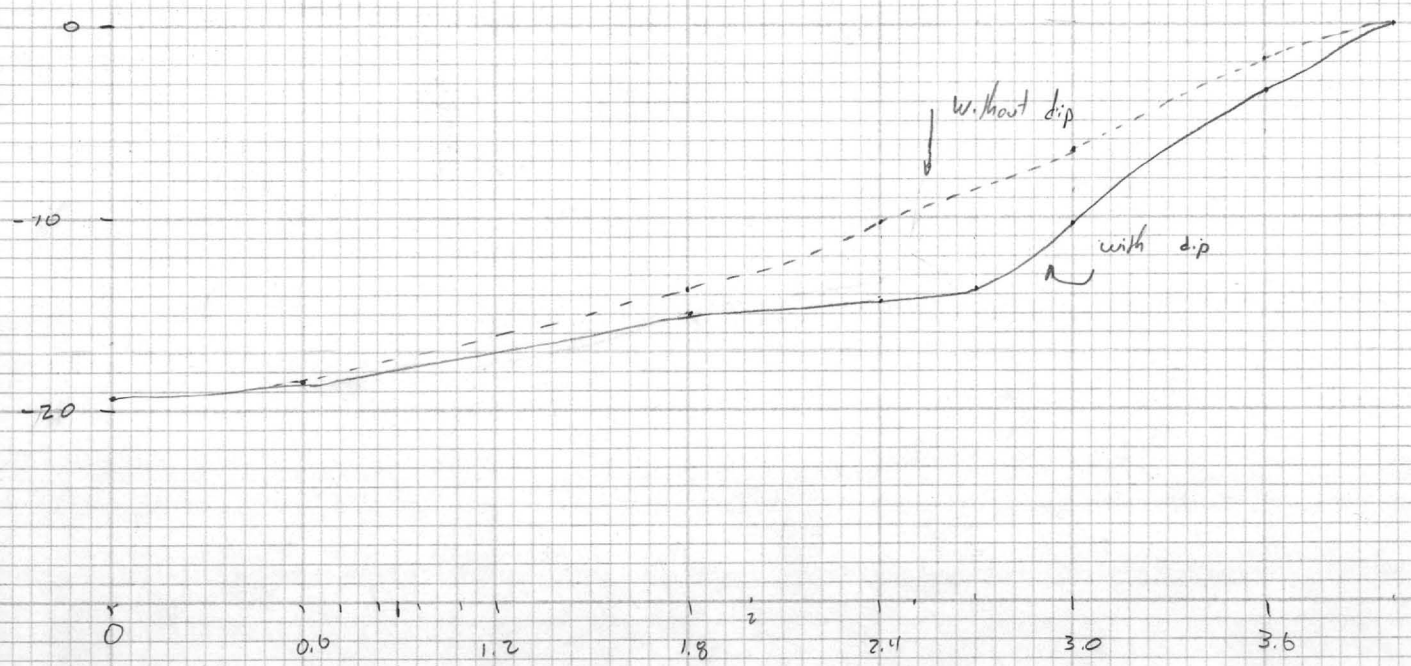
LOCATION	1	2	3	AVE
SW CORNER				
A1 HU 37	5080	5079	5079	5079.33
100'	5081	5081	5080	5080.67
200'	5079	5079	5080	5079.33
SEND				
center HU39	5076	5076	5076	5076.00
100'	5080	5081	5081	5080.67
200'	5078	5078	5079	5078.33
SW CORNER				
A2 HU 39	5077	5077	5077	5077.00
100'	5079	5079	5078	5078.67
200	5078	5077	5078	5077.67
SEND				
center HU39	5079	5080	5080	5079.67
100'	5079	5078	5078	5078.33
200'	5078	5078	5078	5078.00
SW CORNER				
A3 HU41	5078	5079	5079	5078.67
100'	5080	5081	5080	5080.33
200'	5079	5079	5079	5079.00
SEND				
center HU41	5081	5081	5081	5081.00
100'	5078	5079	5079	5078.67
200'	5081	5081	5081	5081.00
SW CORNER				
A4 HU43	5081	5080	5080	5080.33
100'	5080	5080	5080	5080.00
200'	5080	5080	5081	5080.33
SEND				
center HU43	5082	5082	5082	5082.00
100'	5081	5080	5080	5080.33
200'	5080	5080	5080	5080.00

Location		1	2	3	Ave
	SW corner				
A5	HV 45	5080	5080	5080	5080.00
	100'	5075	5074	5076	5075.00
	200'	5074	5074	5075	5074.33
	SEND center HV45	5071	5072	5071	5071.33
	100'	5070	5070	5069	5069.33
	200'	5071	5072	5071	5071.33
	SW corner				
A6	HV 47	5071	5072	5072	5071.67
	100'	5070	5070	5070	5070.00
	200'	5072	5072	5071	5071.67
	SEND center				
	HV 47	5071	5071	5071	5071.00
	100'	5072	5071	5071	5071.33
	200'	5070	5071	5071	5070.67
	SE corn				
A7	HV 47	5069	5070	5069	5069.33

Smoothed Mag. data

A – A'

1	5,078.9
2	5,078.4
3	5,078.7
4	5,078.5
5	5,078.0
6	5,078.0
7	5,078.4
8	5,078.7
9	5,078.6
10	5,078.5
11	5078.9
12	5,079.5
13	5,079.8
14	5,079.9
15	5,079.9
16	5080.2
17	5080.3
18	5080.3
19	5080.7
20	5081.0
21	5080.6
22	5079.9
23	5078.6
24	5076.6
25	5074.6
26	5072.3
27	5070.8
28	5070.8
29	5071.1
30	5,071
31	5071.2
32	5071.4
33	5071.3
34	5071.0


0
-10
-20
without d.p
with d.p
0
0.6
1.2
1.8
2.4
3.0
3.6

GRAVITY OBSERVATION FORM

Start : TUE, 10

00001
Sequence No.

BAS - 0001 — Station Ident
AZ — State
__ — County
02 — Month
10 — Day
81 — Year

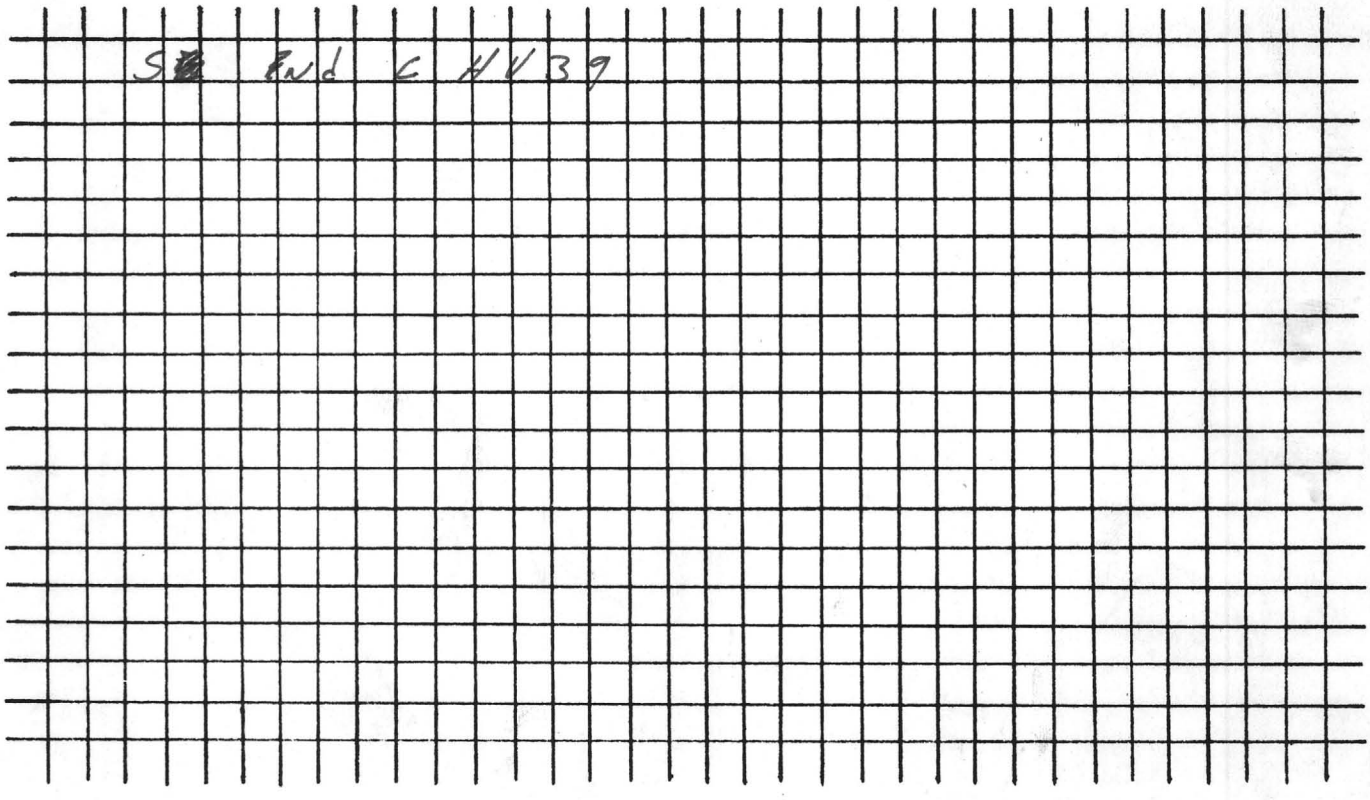
__ __ — Deg. Latitude
__ __ — Minutes
B — Station Type
__ — Bedrock
__ — Map
__ __ __ — Geology — PRIMARY

__ __ __ — Deg. Longitude
__ __ — Minutes
GZ34 — Meter Type or Number
__ __ __ — Geology — SECONDARY

__ __ __ __ __ — Elevation
__ —
F — Unit Control
S
__ __ __ — Geology — TERTIARY

2900
3079.01
1.06323

1	Z9488	025	1244		MA	48.5
2	Z9488	021	1245			
3	Z9488	050	1246			
4		032				
	Reading		Time	Quality	Observer	Temp.



GRAVITY OBSERVATION FORM End : Tue - 10

0.009

0 0 0 0 6
Sequence No.

B A S - 0 0 0 1
Station Ident

A Z
State

S I
County

0 2
Month

1 0
Day

8 1
Year

3 3
Deg. Latitude

4 0
Minutes

4 7
Station Type

13 A 5
Bedrock

Map

PRIMARY
Geology

Deg. Longitude

Minutes

Meter Type or Number

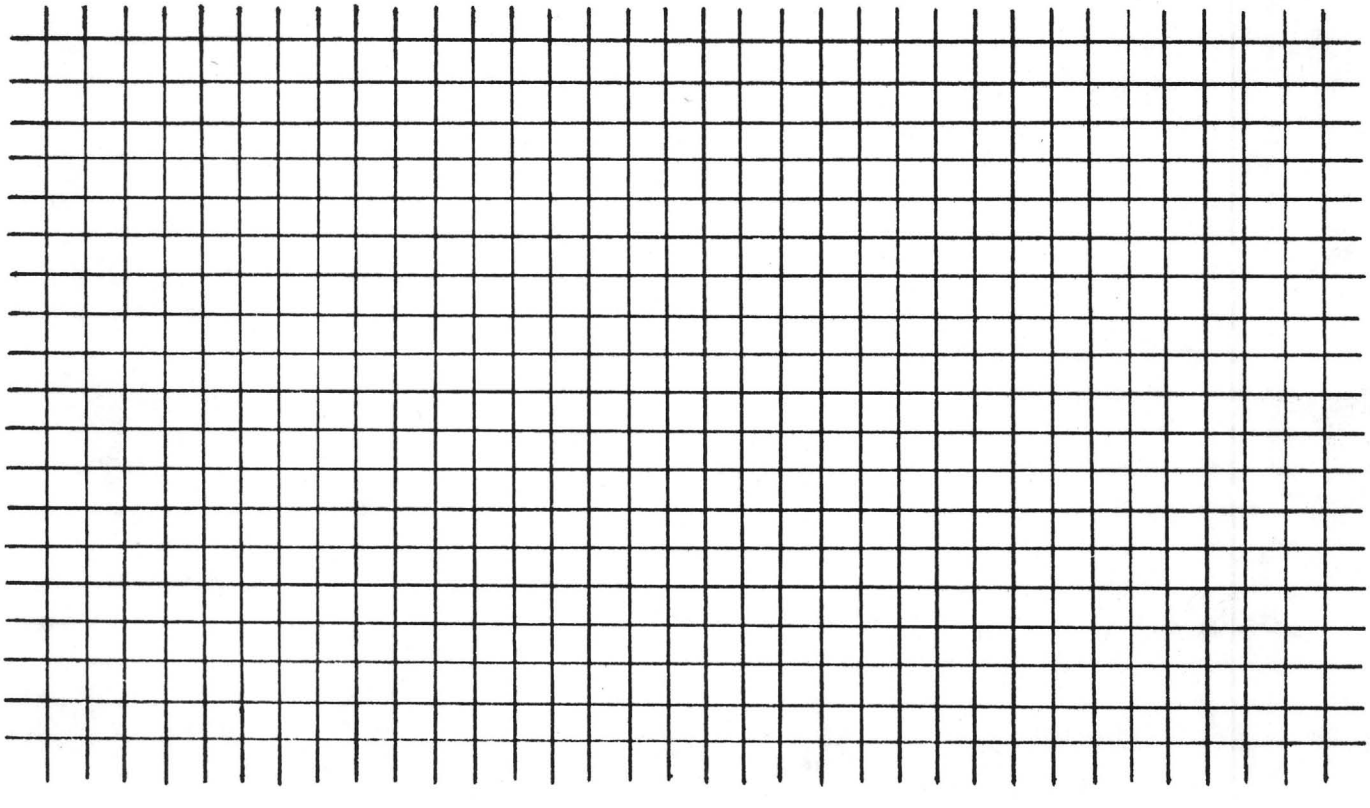
SECONDARY
Geology

Z 6 7 4
Elevation

0
Unit Control

TERTIARY
Geology

1	2948	050	1625		MA		
	Reading		Time	Quality	Observer	Temp.	
2	2948	057	1626		MA		
	Reading		Time	Quality	Observer	Temp.	
3	2948	065	1627		MA		
	Reading		Time	Quality	Observer	Temp.	
4		057					
	Reading		Time	Quality	Observer	Temp.	



GRAVITY OBSERVATION FORM

Field	Value
Sequence No.	00002
Station Ident	A - 0001
State	AZ
County	
Month	02
Day	10
Year	81
Deg. Latitude	33
Minutes (Latitude)	40 47
Station Type	
Bedrock	
Map	
PRIMARY Geology	
Deg. Longitude	
Minutes (Longitude)	
Meter Type or Number	
SECONDARY Geology	
Elevation	2636 3
Unit	
Control	
TERTIARY Geology	

~~127.8~~ ~~36.45~~ 36.86

127.7

	Reading		Time	Quality	Observer	Temp.
1	~~2948 225~~		~~255~~		[illegible]	
2	2949	227	14 256		[illegible]	
3	2949	242	14 257		[illegible]	
4	2949	225	14 258		[illegible]	

.231

GRAVITY OBSERVATION FORM

00003
Sequence No.

AA - 0002 Station Ident | AZ State | County | 02 Month | 10 Day | 81 Year

33 Deg. Latitude | 40 Minutes | 47 | F Station Type | Bedrock | Map | Geology PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology SECONDARY

Z5845 Elevation | F Unit Control | Geology TERTIARY

126.01

36.90

1	29521 Reading	171	1518 Time	Quality	MA Observer		Temp.
2	29521 Reading	191	1521 Time	Quality	MA Observer		Temp.
3	29521 Reading	179	1523 Time	Quality	MA Observer		Temp.
4	Reading	180	Time	Quality	Observer		Temp.

S. B.C. NV.37

GRAVITY OBSERVATION FORM

0 0 0 0 4
Sequence No.

[ ][ ]A - 0 0 0 3
Station Ident

A Z
State

G I
County

0 2
Month

1 6
Day

8 1
Year

3 3 4 0
Deg. Latitude

4 7
Minutes

F [ ] [ ]
Station Type

[ ]
Bedrock

[ ]
Map

[ ][ ][ ] PRIMARY
Geology

[ ][ ][ ]
Deg. Longitude

[ ][ ]
Minutes

[ ][ ][ ][ ]
Meter Type or Number

[ ][ ][ ] SECONDARY
Geology

[ ] Z 5 5 3
Elevation

1

F
Unit Control

5

[ ][ ][ ] TERTIARY
Geology

124.92 36.90

1	[ ]2953 Reading	951	1547 Time	[ ] Quality	MA Observer	Temp.
2	[ ]2953 Reading	957	1548 Time	[ ] Quality	MA Observer	Temp.
3	[ ]2953 Reading	956	1549 Time	[ ] Quality	MA Observer	Temp.
4	[ ][ ][ ][ ][ ] Reading	953	[ ][ ][ ][ ] Time	[ ] Quality	Observer	Temp.

SW CORNER MU37

GRAVITY OBSERVATION FORM

00005
Sequence No.

AA-0004 — Station Ident
AZ — State
6I — County
02 — Month
10 — Day
81 — Year

33 — Deg. Latitude
40 — Minutes
47 — Station Type
Bedrock
Map
Geology — PRIMARY

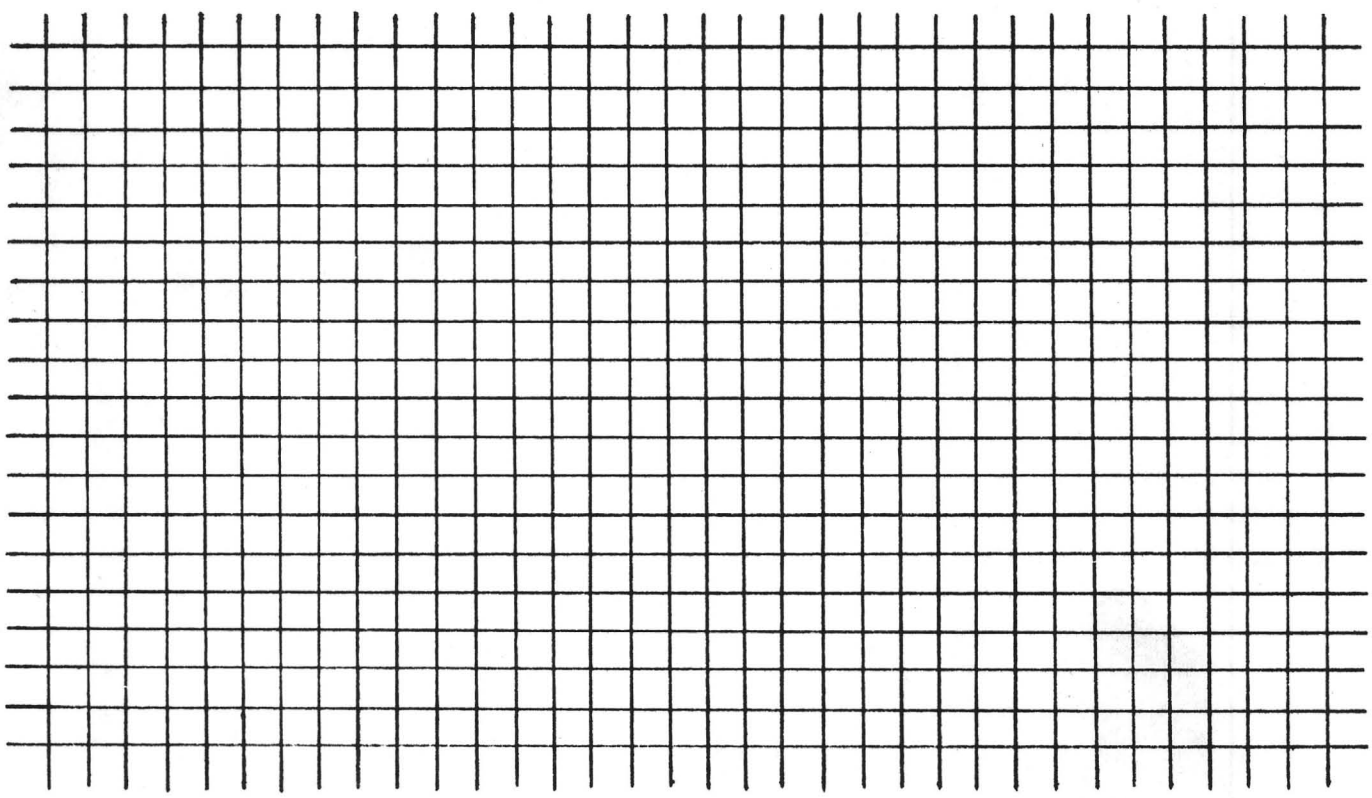
Deg. Longitude
Minutes
Meter Type or Number
Geology — SECONDARY

Z6582 — Elevation
0 — Unit Control
Geology — TERTIARY

128.51

36.87

1	2948 Reading	100	1611 Time	Quality	MA Observer		Temp.
2	2948 Reading	025	1612 Time	Quality	MA Observer		Temp.
3	2948 Reading	038	1613 Time	Quality	MA Observer		Temp.
4	2948 Reading	014 026	1614 Time	Quality	MA Observer		Temp.



GRAVITY OBSERVATION FORM start: Wed – 11

00007
Sequence No.

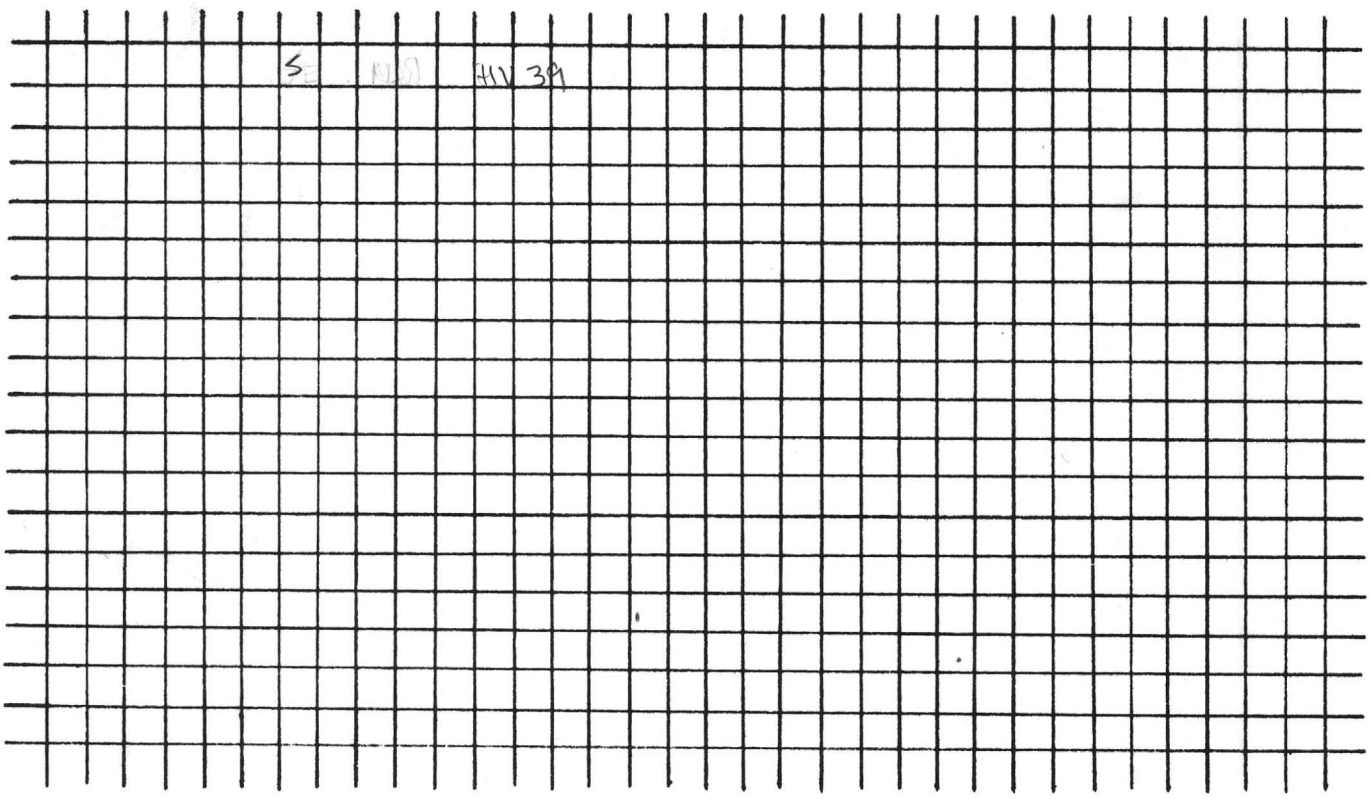
BAS - 0001 Station Ident | AZ State | GI County | 10 Month | 11 Day | 81 Year

Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology | PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology | SECONDARY

Elevation | Unit Control | Geology | TERTIARY

	Reading	Time	Quality	Observer	Temp.
1	2147	980	0828	MA	
2	2947	976	0829	MA	
3	2947	987	0830	MA	
4		979			



End:
WED - 11

GRAVITY OBSERVATION FORM

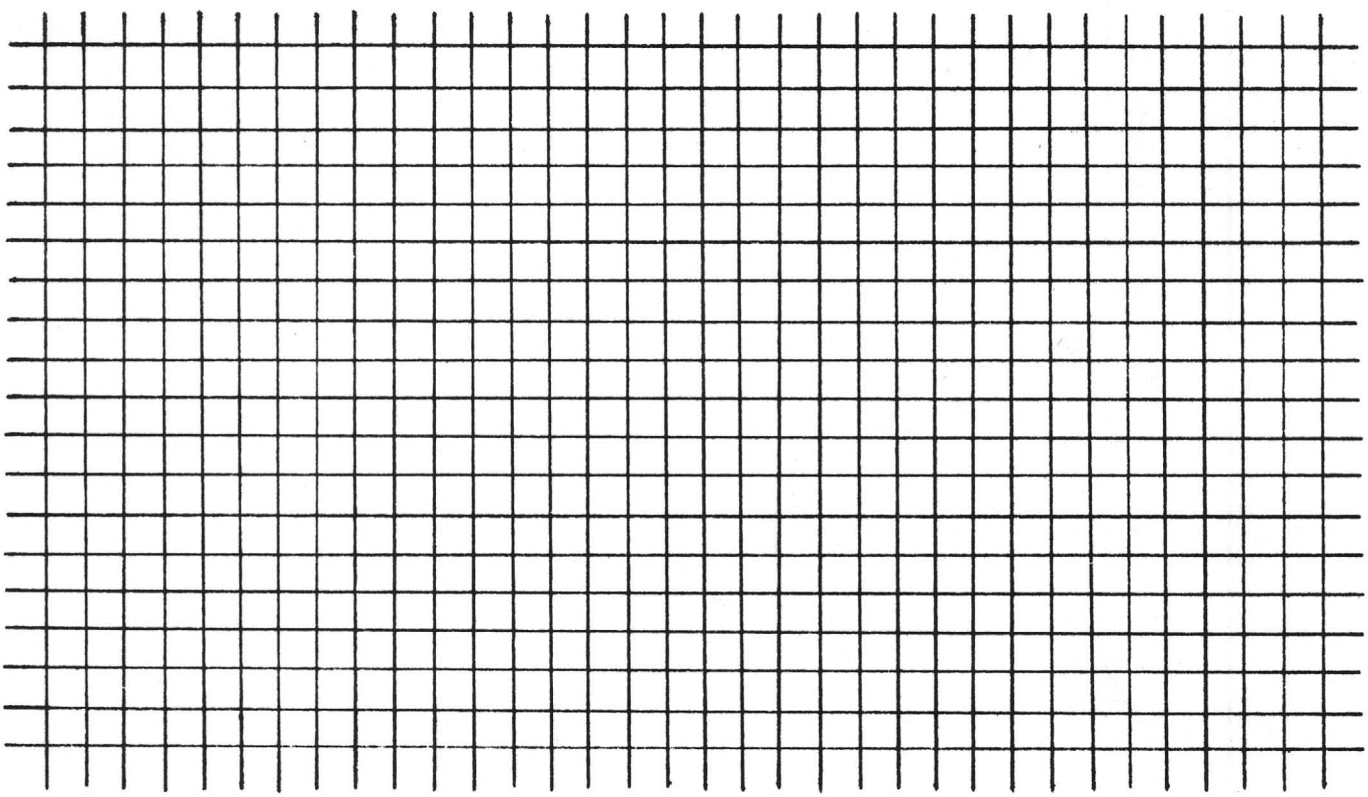
dest = −0,03

3 7
Sequence No.

B A 5 - 0 0 0 1 | A Z | | 0 2 | 1 1 | 8 1
Station Ident | State | County | Month | Day | Year

							PRIMARY
Deg. Latitude	Minutes	Station Type	Bedrock	Map	Geology		
							SECONDARY
Deg. Longitude	Minutes	Meter Type or Number			Geology		
							TERTIARY
Elevation		Unit Control			Geology		

	Reading		Time	Quality	Observer	Temp.
1	2947	832	1736		MA	
2	2947	852	1731		MA	
3	2947	849	1732		MA	
4		844				



GRAVITY OBSERVATION FORM

00008
Sequence No.

AA-0005 — Station Ident
AZ — State
__ — County
02 — Month
11 — Day
81 — Year

33 — Deg. Latitude
40 — Minutes
47 — Station Type
__ — Bedrock
__ — Map
___ — PRIMARY Geology

___ — Deg. Longitude
__ — Minutes
____ — Meter Type or Number
___ — SECONDARY Geology

26740 — Elevation
0 — Unit Control
___ — TERTIARY Geology

129.4 37.24

1	29470 Reading	321	0837 Time		Quality	MA Observer	Temp.
2	29470 Reading	329	0838 Time		Quality	MA Observer	Temp.
3	29470 Reading	339	0839 Time		Quality	Observer	Temp.
4	Reading	330	Time		Quality	Observer	Temp.

SE corner HV 39

GRAVITY OBSERVATION FORM

00009
Sequence No.

[ ][ ]A - 0006
Station Ident

[ ][ ] State
[ ][ ] County
[ ][ ] Month
[ ][ ] Day
[ ][ ] Year

33 40 47 [ ][ ][ ] PRIMARY
Deg. Latitude Minutes Station Type Bedrock Map Geology

[ ][ ][ ] [ ][ ] [ ][ ] [ ][ ][ ][ ] [ ][ ][ ] SECONDARY
Deg. Longitude Minutes Meter Type or Number Geology

[ ]2688 9 [ ] [ ] [ ][ ][ ] TERTIARY
Elevation Unit Control Geology

130.21 37.51

1	[ ]2946	740	0845	[ ]	MA		
	Reading		Time	Quality	Observer	Temp.	
2	[ ]2946	749	0846	[ ]	MA		
	Reading		Time	Quality	Observer	Temp.	
3	[ ]2946	737	0847	[ ]	MA		
	Reading		Time	Quality	Observer	Temp.	
4	[ ][ ][ ][ ][ ]	742	[ ][ ][ ][ ]	[ ]			
	Reading		Time	Quality	Observer	Temp.	

S END C HV41

GRAVITY OBSERVATION FORM

00009
Sequence No.

AA-0007 Station Ident | State | County | Month | Day | Year

33 | 40 | 47 Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology SECONDARY

Z703 Elevation | 8 Unit Control | Geology TERTIARY

131.04 37.83

1	2946 Reading	201	0855 Time	Quality	MA Observer	Temp.
2	2946 Reading	195	0856 Time	Quality	MA Observer	Temp.
3	2946 Reading	199	0857 Time	Quality	MA Observer	Temp.
4	Reading	198	Time	Quality	Observer	Temp.

SE CORNER HUT

GRAVITY OBSERVATION FORM

0 0 0 1 0
Sequence No.

A-0008			02	11	81	
Station Ident	State	County	Month	Day	Year	

33 40	47					PRIMARY
Deg. Latitude	Minutes	Station Type	Bedrock	Map	Geology	
						SECONDARY
Deg. Longitude	Minutes	Meter Type or Number			Geology	
2716	9					TERTIARY
Elevation		Unit Control			Geology	

131,83 38.17

	Reading	Time	Quality	Observer	Temp.
1	2945 773	0904		MA	
2	2945 780	0905		MA	
3	2945 775	0906		MA	
4	7776				

SO END C HU 43

GRAVITY OBSERVATION FORM

Sequence No. 11

Station Ident: A-0009

State: AZ

County:

Month: 02

Day: 11

Year: 81

Deg. Latitude: 33

Minutes: 40.47

Station Type:

Bedrock:

Map:

PRIMARY Geology:

Deg. Longitude:

Minutes: 131.73

Meter Type or Number:

SECONDARY Geology:

Elevation: 2709

Unit: 0

Control:

TERTIARY Geology:

38.34

	Reading	Time	Quality	Observer	Temp.
1	29463 83	0924		MA	
2	29463 65	0925		MA	
3	29463 81	0926		MA	
4	376				

SE CORNER HV 43 - SIDE OF HILL
- POSSIBLE BEDROCK ALLUVIAL

GRAVITY OBSERVATION FORM

Field	Value
Sequence No.	12
Station Ident	A-10
State	
County	
Month	02
Day	11
Year	81
Deg. Latitude	33
Minutes	40 47
Station Type	
Bedrock	
Map	
Geology PRIMARY	
Deg. Longitude	
Minutes	
Meter Type or Number	
Geology SECONDARY	
Elevation	2700 5
Unit	
Control	
Geology TERTIARY	

127.74 34.64

	Reading		Time	Quality	Observer	Temp.
1	2943	348	0935		MA	
2	2943	371	0936		MA	
3	2943	362	0937			
4		360				

S END L HV45

Side of Hill possible bedrock Alluvial

GRAVITY OBSERVATION FORM

Sequence No. 12

Station Ident A - 11 | State | County | Month 02 | Day 11 | Year 81

Deg. Latitude 33 | Minutes 40.47 | Station Type | Bedrock | Map | Geology (PRIMARY)

Deg. Longitude | Minutes | Meter Type or Number | Geology (SECONDARY)

Elevation 2758.7 | Unit Control | Geology (TERTIARY)

134.38 39.28

	Reading		Time	Quality	Observer	Temp.
1	2944.4	460	0945		MA	
2	2944.3	436	0946		MA	
3	2944.4	446	0947		MA	
4		443				

SE corner HV45

Edge of Hill - possible 45 Bedrock

GRAVITY OBSERVATION FORM

[ ][ ][ ][1][3]
Sequence No.

[ ][ ][A]-[0][0][1][2] Station Ident | [ ][ ] State | [ ][ ] County | [ ][ ] Month | [ ][ ] Day | [ ][ ] Year

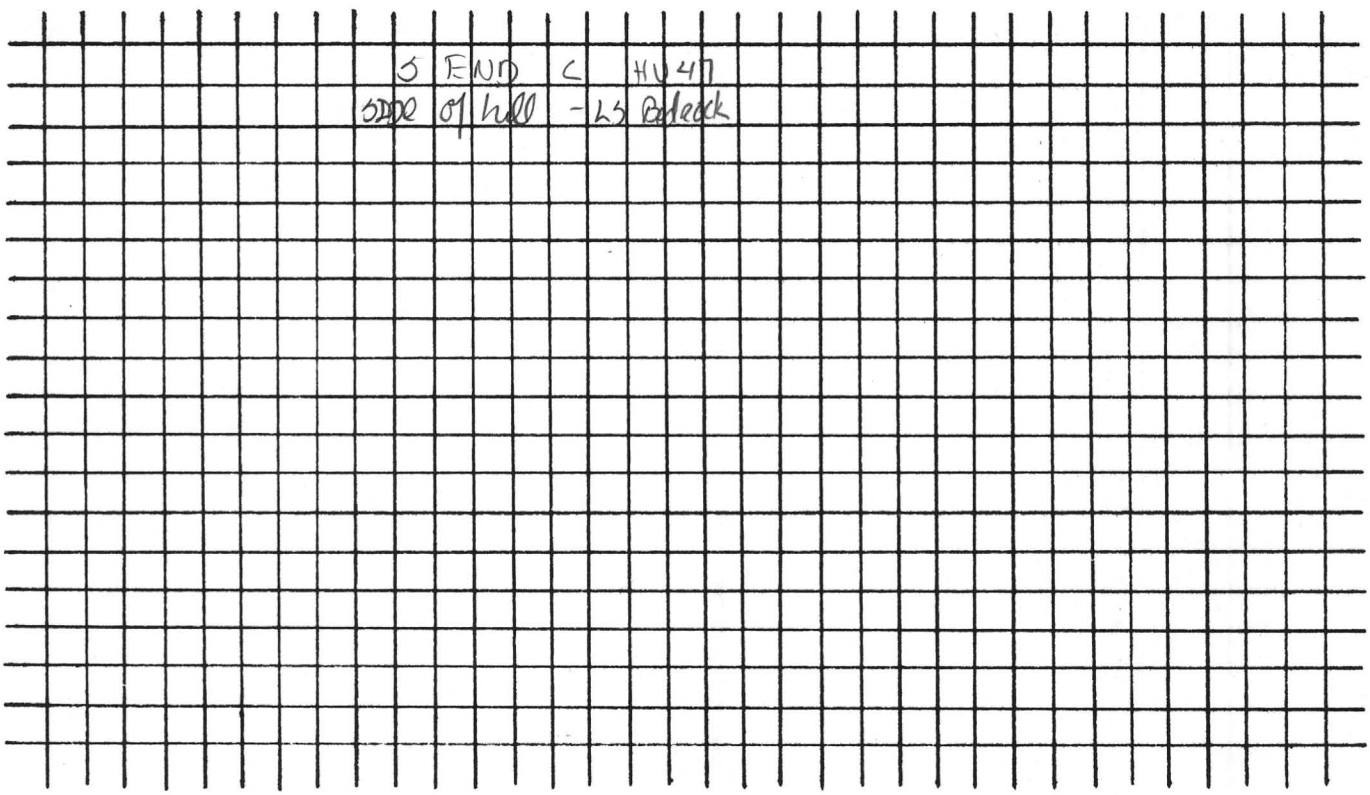
[3][3] Deg. Latitude | [4][0] [4][7] Minutes | [ ][ ][ ] Station Type | [ ] Bedrock | [ ] Map | [ ][ ][ ] PRIMARY Geology

[ ][ ][ ] Deg. Longitude | [ ][ ] Minutes | [ ][ ][ ][ ] Meter Type or Number | [ ][ ][ ] SECONDARY Geology

[ ][2][8][3][5] Elevation | [1] | [ ] Unit Control | [ ] | [ ][ ][ ] TERTIARY Geology

136.76 39.04

1	[ ][2][9][3][9] Reading	[9][0][0]	[0][9][5][8] Time	[ ] Quality	MA Observer	Temp.
2	[ ][2][9][3][9] Reading	[9][1][5]	[0][9][5][9] Time	[ ] Quality	MA Observer	Temp.
3	[ ][2][9][3][9] Reading	[9][2][2]	[ ][ ][ ][ ] Time	[ ] Quality	MA Observer	Temp.
4	[ ][ ][ ][ ][ ] Reading	[9][1][2]	[ ][ ][ ][ ] Time	[ ] Quality	Observer	Temp.



GRAVITY OBSERVATION FORM

Sequence No. 14

Station Ident A - 13 | State | County | Month | Day | Year

Deg. Latitude 33 | Minutes 40 47 | Station Type | Bedrock | Map | Geology PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology SECONDARY

Elevation 2946 0 | Unit Control | Geology TERTIARY

140.62 39.08

	Reading		Time	Quality	Observer	Temp.
1	2933	750	1011		MA	
2	2933	708	1012		MA	
3	2933	718	1013		MA	
4	2933	705	1014		MA	

710

SE CORNER HWY
HILLSIDE BEDROCK

GRAVITY OBSERVATION FORM

Sequence No. 0015

Station Ident B-0001 | State | County | Month 02 | Day 11 | Year 81

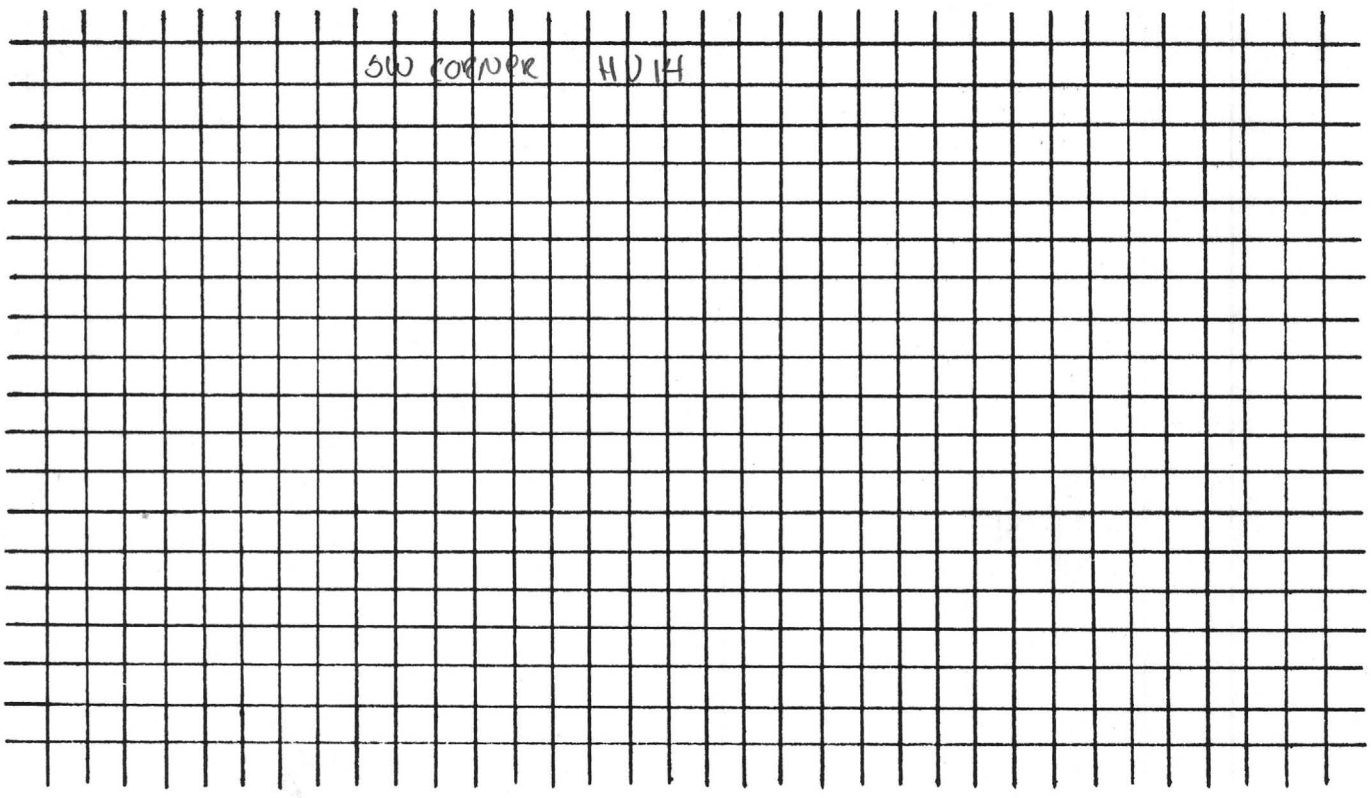
Deg. Latitude 33 | Minutes 42.02 | Station Type | Bedrock | Map | Geology | PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology | SECONDARY

Elevation 2783 | 7 | Unit Control | Geology | TERTIARY

137.39 41.43

	Reading		Time	Quality	Observer	Temp.
1	2946	660	1141		MA	
2	2946	640	1142		MA	
3	2946	642	1143		MA	
4		647				



GRAVITY OBSERVATION FORM

00016
Sequence No.

BB-0002 — Station Ident
State
County
02 — Month
11 — Day
81 — Year

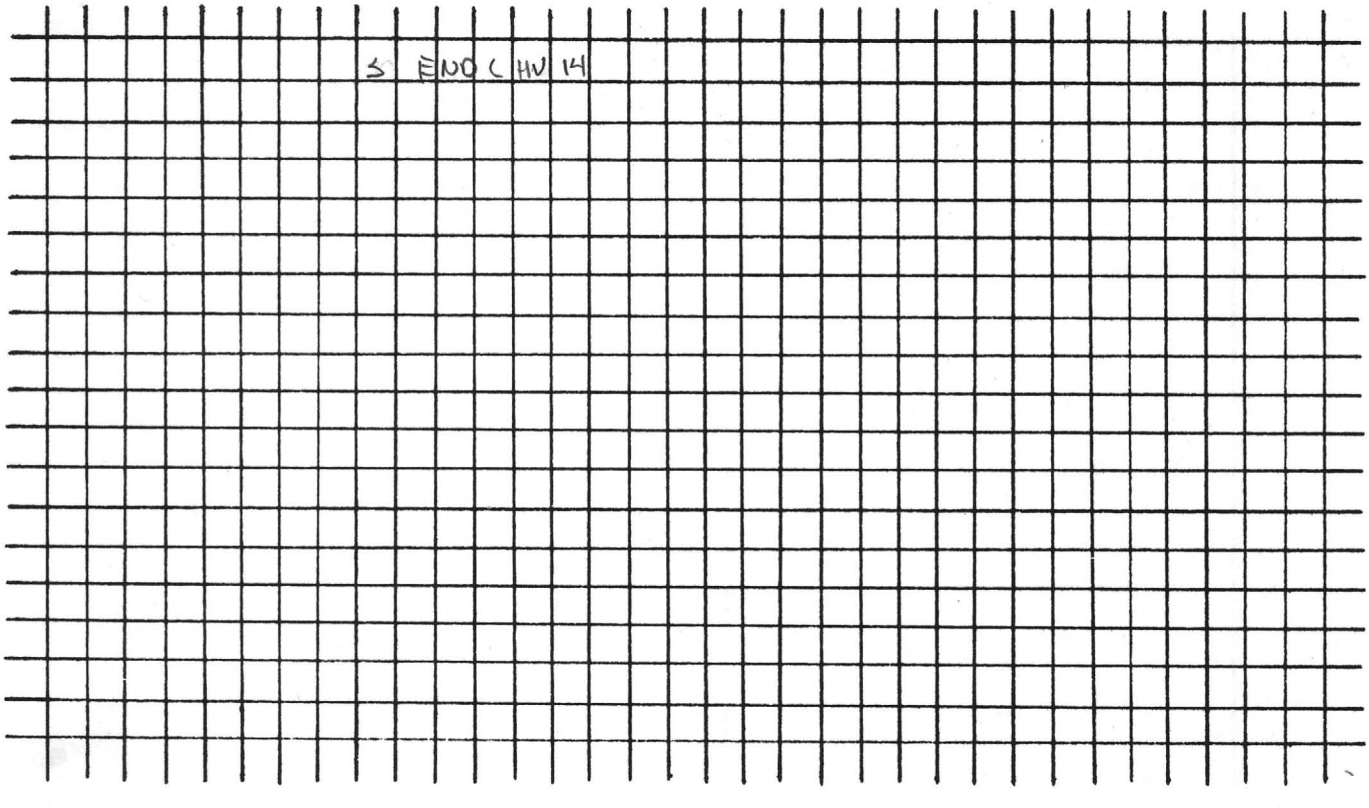
33 — Deg. Latitude
42 — Minutes
02 — Station Type
Bedrock
Map
Geology — PRIMARY

Deg. Longitude
Minutes
Meter Type or Number
Geology — SECONDARY

27928 — Elevation
8 F — Unit Control
Geology — TERTIARY

13739 41.12

	Reading	Time	Quality	Observer	Temp.
1	29458 39	1150		MA	
2	29458 49	1151		MA	
3	29458 42	1152			
4	84 3				



GRAVITY OBSERVATION FORM

Field	Value
Sequence No.	17
Station Ident	B-0003
State	AZ
County	
Month	
Day	
Year	
Deg. Latitude	33
Minutes	42 02
Station Type	
Bedrock	
Map	
Geology PRIMARY	
Deg. Longitude	
Minutes	
Meter Type or Number	
Geology SECONDARY	
Elevation	2810 6
Unit	
Control	
Geology TERTIARY	

137.89 41.01

	Reading		Time	Quality	Observer	Temp.
1	2944	728	1157		MA	
2	2944	726	1158		MA	
3	2944	729	1159		MA	
4		728				

SE CORNER HV 14

GRAVITY OBSERVATION FORM

Sequence No. 16

Station Ident B-04 | State | County | Month 12 | Day 11 | Year 81

Deg. Latitude 33 42 .02 | Minutes | Station Type | Bedrock | Map | Geology | PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology | SECONDARY

Elevation 2830 5 | Unit Control | Geology | TERTIARY

138.30 40.74

	Reading		Time	Quality	Observer	Temp.
1	2943	350	1206		MA	
2	2943	350	1207		MA	
3	2943	356			MA	
4		350				

3 END C HV16

GRAVITY OBSERVATION FORM

□□□17
Sequence No.

□□B - □□05 | □□ | □□ | □□ | □□ | □□
Station Ident | State | County | Month | Day | Year

33 | 42 | 02 | □ | □ | □ | □ | □ | □□□ PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

□□□ | □□ | □□ | □□□□ | □□□ SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

□2847 | 0 | □ | □ | □□□ TERTIARY
Elevation | Unit Control | Geology

138.54 40.41

1	□2942	100	1216	□	MA		
	Reading		Time	Quality	Observer	Temp.	
2	□2942	110	1217	□	MA		
	Reading		Time	Quality	Observer	Temp.	
3	□2942	110	1219	□	MA		
	Reading		Time	Quality	Observer	Temp.	
4	□□□□□	107	□□□□	□			
	Reading		Time	Quality	Observer	Temp.	

SE CORNER HU 16

GRAVITY OBSERVATION FORM

[ ][ ][ ][1][B]
Sequence No.

[ ][ ][B] - [ ][ ][0][6] Station Ident | [ ][ ] State | [ ][ ] County | [ ][ ] Month | [ ][ ] Day | [ ][ ] Year

[3][3] Deg. [4][2] [0][2] Minutes | [ ][ ][ ] Station Type | [ ] Bedrock | [ ] Map | [ ][ ][ ] Geology PRIMARY

[ ][ ][ ] Deg. Longitude | [ ][ ] Minutes | [ ][ ][ ][ ] Meter Type or Number | [ ][ ][ ] Geology SECONDARY

[ ][2][8][5][8] Elevation [8] | [ ] [ ] Unit Control | [ ][ ][ ] Geology TERTIARY

138.95 40.42

1	[ ][2][9][4][1] Reading	[4][6][3]	[1][2][3][5] Time	[ ] Quality	MA Observer	Temp.
2	[ ][2][9][4][1] Reading	[4][6][0]	[1][2][3][6] Time	[ ] Quality	MA Observer	Temp.
3	[ ][2][9][4][1] Reading	[4][5][0]	[1][2][3][7] Time	[ ] Quality	MA Observer	Temp.
4	[ ][ ][ ][ ][ ] Reading	[4][5][8]	[ ][ ][ ][ ] Time	[ ] Quality	Observer	Temp.

5 END center HU 18

GRAVITY OBSERVATION FORM

Sequence No. 19

Station Ident B - 07 | State | County | Month | Day | Year

Deg. Latitude 33 | Minutes 42 09 | Station Type | Bedrock | Map | Geology | PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology | SECONDARY

Elevation 291 13 4 | Unit Control | Geology | TERTIARY

141.01 40.60

	Reading	Time	Quality	Observer	Temp.
1	2938 545				
2	2938 560	1246			
3	2938 555				
4	553				

(SE) 18
SW corner HJ 20

GRAVITY OBSERVATION FORM

20
Sequence No.

B - 08
Station Ident

State | County | Month | Day | Year

33 | 42 | 02 | | | | PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

Deg. Longitude | Minutes | Meter Type or Number | SECONDARY Geology

2963 | 8 | | | TERTIARY
Elevation | Unit Control | Geology

142.77 40.62

	Reading		Time	Quality	Observer	Temp.
1	2935	719	1300		MA	
2	2935	745	1301		MA	
3	2935	740	1302		MA	
4		735				

S END < HU20
Dead Rock Volcanics - side of hill

GRAVITY OBSERVATION FORM

Sequence No. 21

Station Ident: B-09 | State | County | Month | Day | Year

Deg. Latitude: 33 | Minutes: 42.02 | Station Type | Bedrock | Map | Geology: PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology: SECONDARY

Elevation: 2986.0 | Unit Control | Geology: TERTIARY

14368 40.77

	Reading	Time	Quality	Observer	Temp.
1	29346.3	1309		MA	
2	29346.2	1310		MA	
3	29346.9	1311		MA	
4		621			

SW CORNER 22

VOLCANIC Bedrock

GRAVITY OBSERVATION FORM

22
Sequence No.

B - 10 | AZ | | 62 | 11 | 81
Station Ident | State | County | Month | Day | Year

33 | 42 | 02 | | | | | | PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

| | | | | SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

Z966 | 0 | | | | TERTIARY
Elevation | Unit Control | Geology

142.83 40.60

1	2935	585	1324		MA	
	Reading		Time	Quality	Observer	Temp.
2	2935	590	1325		MA	
	Reading		Time	Quality	Observer	Temp.
3	2935	571	1328		MA	
	Reading		Time	Quality	Observer	Temp.
4		582				
	Reading		Time	Quality	Observer	Temp.

S END CENTER HW 22
Stream Alluvial

GRAVITY OBSERVATION FORM

□□□23
Sequence No.

□□B - □□11 □□ □□ □□ □□ □□
Station Ident | State | County | Month | Day | Year

33 42 02 □ □ □ □ □□□ PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

□□□ □□ □□ □□□□ □□□ SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

□2973 3 □ □ □□□ TERTIARY
Elevation | Unit Control | Geology

142.89 40.41

1	□2935 Reading	010	1334 Time	□ Quality	MA Observer	____ Temp.
2	□2935 Reading	015	1335 Time	□ Quality	MA Observer	____ Temp.
3	□2935 Reading	015	1336 Time	□ Quality	MA Observer	____ Temp.
4	□□□□□ Reading	013	□□□□ Time	□ Quality	____ Observer	____ Temp.

SE CORNER HW 22
stream alluvial

GRAVITY OBSERVATION FORM

Sequence No. 24

Station Ident: C - 01 | State: AZ | County: | Month: 02 | Day: 11 | Year: 81

Deg. Latitude: 33 | Minutes: 41 47 | Station Type: | Bedrock: | Map: | Geology: PRIMARY

Deg. Longitude: | Minutes: | Meter Type or Number: | Geology: SECONDARY

Elevation: 2984 6 | Unit: | Control: | Geology: TERTIARY

143.17 40.31

	Reading		Time	Quality	Observer	Temp.
1	29333	921	1408		MA	
2	29333	956	1409		MA	
3	29333	950	1410		MA	
4		940				

NE CORNER HV 3
BY ROUND

GRAVITY OBSERVATION FORM

Sequence No.: 25

Station Ident	State	County	Month	Day	Year
C - 02	AZ		02	11	81

Deg. Latitude	Minutes	Station Type	Bedrock	Map	Geology (PRIMARY)
33 41	47				

Deg. Longitude	Minutes	Meter Type or Number	Geology (SECONDARY)

Elevation		Unit	Control	Geology (TERTIARY)
2998	2	F		

143.73 40.40

	Reading		Time	Quality	Observer	Temp.
1	2933	196	1418		MA	
2	2933	254	1419		MA	
3	2933	276	1420		MA	
4	2933	253	142			

.259

N END CENTER HV 34
Hill side

GRAVITY OBSERVATION FORM

Sequence No. 26

Station Ident C - 63

State , County , Month , Day , Year

Deg. Latitude 33 Minutes 41 47 Station Type , Bedrock , Map , Geology PRIMARY

Deg. Longitude , Minutes , Meter Type or Number , Geology SECONDARY

Elevation 3062 8 Unit Control , Geology TERTIARY

145.85 40.30

	Reading	Time	Quality	Observer	Temp.
1	2929 577	1434			
2	2929 540	1435			
3	2929 540	1436			
4	55Z				

UW 102 HV34

GRAVITY OBSERVATION FORM

27
Sequence No.

C - 04
Station Ident

State | County | Month | Day | Year

33 41 47
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology — PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology — SECONDARY

3053 7
Elevation | Unit Control | Geology — TERTIARY

145.43 410.19

	Reading		Time	Quality	Observer	Temp.
1	2929	969	1444		MA	
2	2929	966	1445		MA	
3	2921	941	1446		MA	
4		959				

NEND center HV32

GRAVITY OBSERVATION FORM

Sequence No.: 28

Station Ident: C-05

State:
County:
Month:
Day:
Year:

Deg. Latitude: 33 41 Minutes: 47

Station Type:
Bedrock:
Map:
Geology: PRIMARY

Deg. Longitude: Minutes:

Meter Type or Number:

Geology: SECONDARY

Elevation: 2976 2

Unit Control:

Geology: TERTIARY

142.97 40.40

	Reading		Time	Quality	Observer	Temp.
1	2934	506	1452		MA	
2	2934	510	1453		MA	
3	2934	500	1454		MA	
4		505				

NE corner HW 30

Hill Diabase float possibly bedrock

GRAVITY OBSERVATION FORM

[ ][ ][ ][2][9]
Sequence No.

[ ][ ][C] - [ ][ ][0][6] [ ][ ] [ ][ ] [ ][ ] [ ][ ] [ ][ ]
Station Ident State County Month Day Year

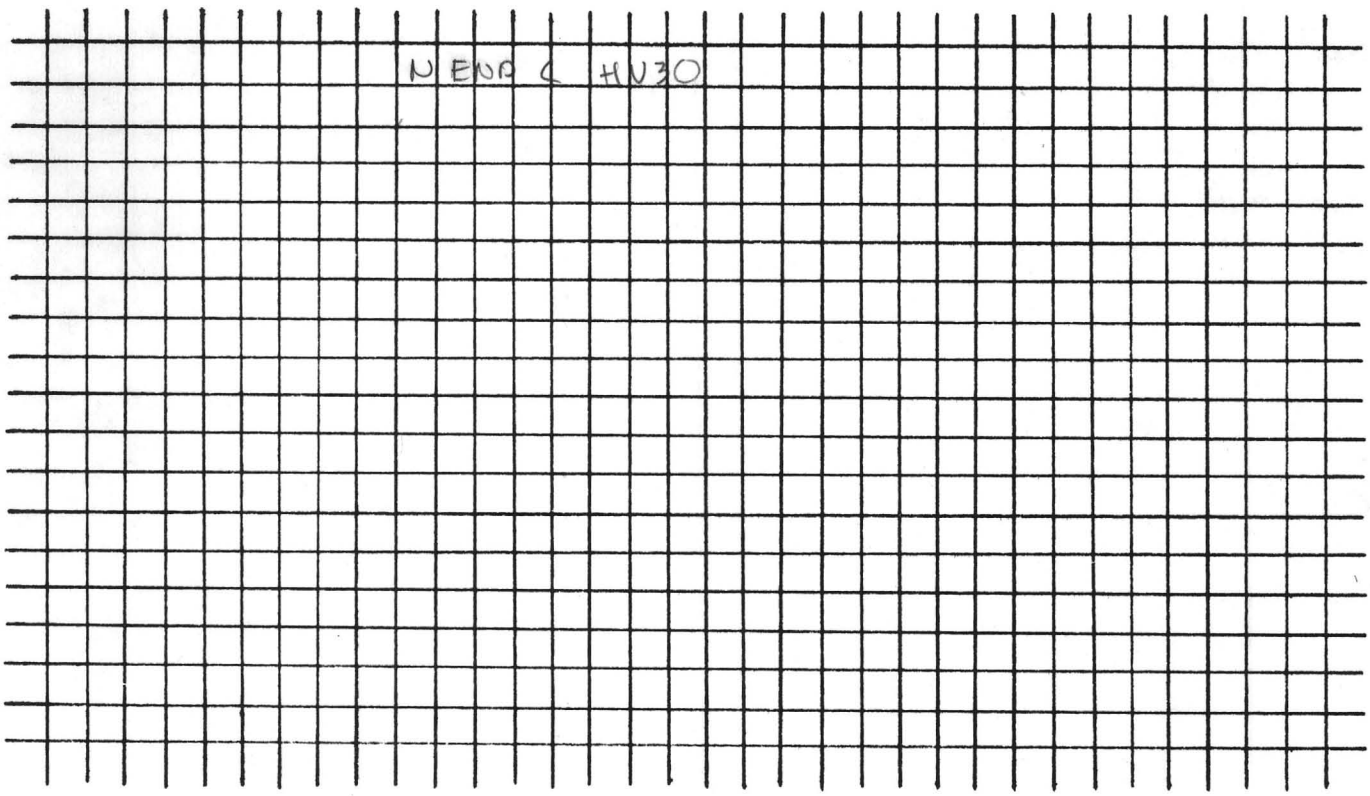
[3][3] [4][1] [4][7] [ ][ ][ ] [ ] [ ][ ][ ] PRIMARY
Deg. Latitude Minutes Station Type Bedrock Map Geology

[ ][ ][ ] [ ][ ] [ ][ ] [ ][ ][ ][ ] [ ][ ][ ] SECONDARY
Deg. Longitude Minutes Meter Type or Number Geology

[ ][2][9][0][0] [6] [ ] [ ] [ ][ ][ ] TERTIARY
Elevation Unit Control Geology

140, 30 40.32

1	[ ][2][9][3][8] Reading	[6][7][5]	[1][4][5][9] Time	[ ] Quality	MA Observer	____ Temp.
2	[ ][2][9][3][8] Reading	[7][0][6]	[1][4][5][9] Time	[ ] Quality	MA Observer	____ Temp.
3	[ ][2][9][3][8] Reading	[6][8][6]	[1][5][6][6] Time	[ ] Quality	MA Observer	____ Temp.
4	[ ][ ][ ][ ][ ] Reading	[6][8][5]	[ ][ ][ ][ ] Time	[ ] Quality	MA Observer	____ Temp.



GRAVITY OBSERVATION FORM

Field	Value
Sequence No.	30
Station Ident	C - 67
State	
County	
Month	
Day	
Year	
Deg. Latitude	33
Latitude Minutes	41 47
Station Type	
Bedrock	
Map	
Geology PRIMARY	
Deg. Longitude	
Longitude Minutes	
Meter Type or Number	
Geology SECONDARY	
Elevation	2871 6
Unit	
Control	
Geology TERTIARY	

139.28 40.31

	Reading		Time	Quality	Observer	Temp.
1	2940	282	1524		MA	
2	2940	290	1525		MA	
3	2940	365	1526		MA	
4		292				

NW CORNER HU 30

GRAVITY OBSERVATION FORM

□□□31
Sequence No.

□□C - □□08 □□ □□ 02 11 81
Station Ident | State | County | Month | Day | Year

33 41 47 □ □ □ □ □ □ PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

□□□ □□ □□ □□□□ □□□ SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

□2868 4 □ □ □□□ TERTIARY
Elevation | Unit Control | Geology

139.04 40.17

1	□2940	376	1534	□	MA		
	Reading		Time	Quality	Observer	Temp.	
2	□2940	376	1535	□	MA		
	Reading		Time	Quality	Observer	Temp.	
3	□2940	376	1536	□	MA		
	Reading		Time	Quality	Observer	Temp.	
4	□□□□□	370	□□□□	□			
	Reading		Time	Quality	Observer	Temp.	

1) END C HW 28

GRAVITY OBSERVATION FORM

[ ][ ][ ][3][2]
Sequence No.

[ ][ ][6] - [ ][ ][0][9]
Station Ident

[ ][ ]
State

[ ][ ]
County

[ ][ ]
Month

[ ][ ]
Day

[ ][ ]
Year

[3][3] [4][1]
Deg. Latitude

[4][7]
Minutes

[ ][ ][ ]
Station Type

[ ]
Bedrock

[ ]
Map

[ ][ ][ ] PRIMARY
Geology

[ ][ ][ ]
Deg. Longitude

[ ][ ]
Minutes

[ ][ ][ ][ ]
Meter Type or Number

[ ][ ][ ] SECONDARY
Geology

[ ][2][8][5][9]
Elevation

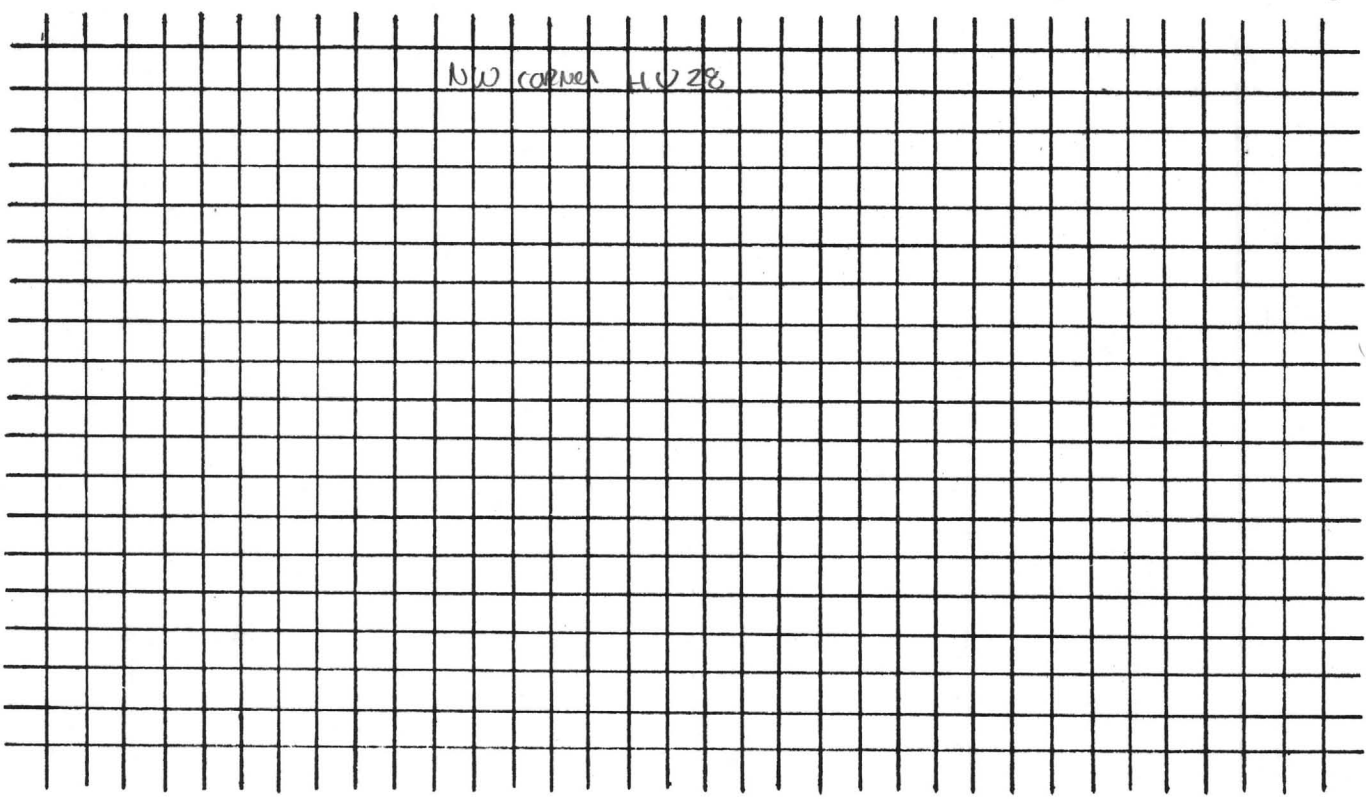
[9]

[ ][ ]
Unit Control

[ ][ ][ ] TERTIARY
Geology

138.65 40.08

1	[ ][2][9][4][0] Reading	[7][6][6]	[1][5][4][2] Time	[ ] Quality	MA Observer	____ Temp.
2	[ ][2][9][4][0] Reading	[7][5][0]	[1][5][4][3] Time	[ ] Quality	MA Observer	____ Temp.
3	[ ][2][9][4][0] Reading	[7][4][5]	[1][5][4][4] Time	[ ] Quality	MA Observer	____ Temp.
4	[ ][ ][ ][ ][ ] Reading	[7][5][3]	[ ][ ][ ][ ] Time	[ ] Quality	____ Observer	____ Temp.



GRAVITY OBSERVATION FORM

33
Sequence No.

C - 10 | AZ | 6 I | 02 | 11 | 82
Station Ident | State | County | Month | Day | Year

33 | 41 | 47 | F | | | | | PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

Deg. Longitude | Minutes | Meter Type or Number | SECONDARY Geology

2846 | 6 | F | TERTIARY Geology
Elevation | Unit Control

137.73 39.61

	Reading		Time	Quality	Observer	Temp.
1	2941	064	1548		MA	
2	2941	069	1550		MA	
3	294	041	1551		MA	
4		058				

N END center HUBC

GRAVITY OBSERVATION FORM

Sequence No.	34	

Field	Value
Station Ident	C - 11
State	AZ
County	61
Month	02
Day	11
Year	81
Deg. Latitude	33 41
Minutes	47
Station Type	
Bedrock	
Map	
Geology PRIMARY	
Deg. Longitude	
Minutes	
Meter Type or Number	
Geology SECONDARY	
Elevation	2836 9
Unit Control	
Geology TERTIARY	

137.46 39.67

	Reading		Time	Quality	Observer	Temp.
1	2941	670	1604		MA	
2	2941	656	1605		MA	
3	2941	657				
4		659				

NW corner HN 26

GRAVITY OBSERVATION FORM

□□□35
Sequence No.

□□4 - □□12 | □□ | □□ | □□ | □□ | □□
Station Ident | State | County | Month | Day | Year

33 | 41 | 47 | □ | □ | □ | □ | □ | □□□ PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

□□□ | □□ | □□ | □□□□ | □□□ SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

□2828 | 5 | □ | □ | □□□ TERTIARY
Elevation | Unit Control | Geology

137.43 39.93

1	□2942	371	1611	□	MA		
	Reading		Time	Quality	Observer	Temp.	
2	□2942	369	1612	□	MA		
	Reading		Time	Quality	Observer	Temp.	
3	□2942	371	1613	□			
	Reading		Time	Quality	Observer	Temp.	
4	□□□□□	370	□□□□	□			
	Reading		Time	Quality	Observer	Temp.	

N END center HV 24

GRAVITY OBSERVATION FORM

[ ][ ][ ][3][6]
Sequence No.

[ ][ ][C] - [ ][ ][1][3]
Station Ident

[ ][ ]
State

[ ][ ]
County

[6][2]
Month

[1][1]
Day

[ ][ ]
Year

[3][3] [4][1] - [4][7]
Deg. Latitude Minutes

[ ][ ][ ]
Station Type

[ ]
Bedrock

[ ]
Map

[ ][ ][ ] PRIMARY
Geology

[ ][ ][ ]
Deg. Longitude

[ ][ ]
Minutes

[ ][ ][ ][ ]
Meter Type or Number

[ ][ ][ ] SECONDARY
Geology

[2][8][0][9]
Elevation

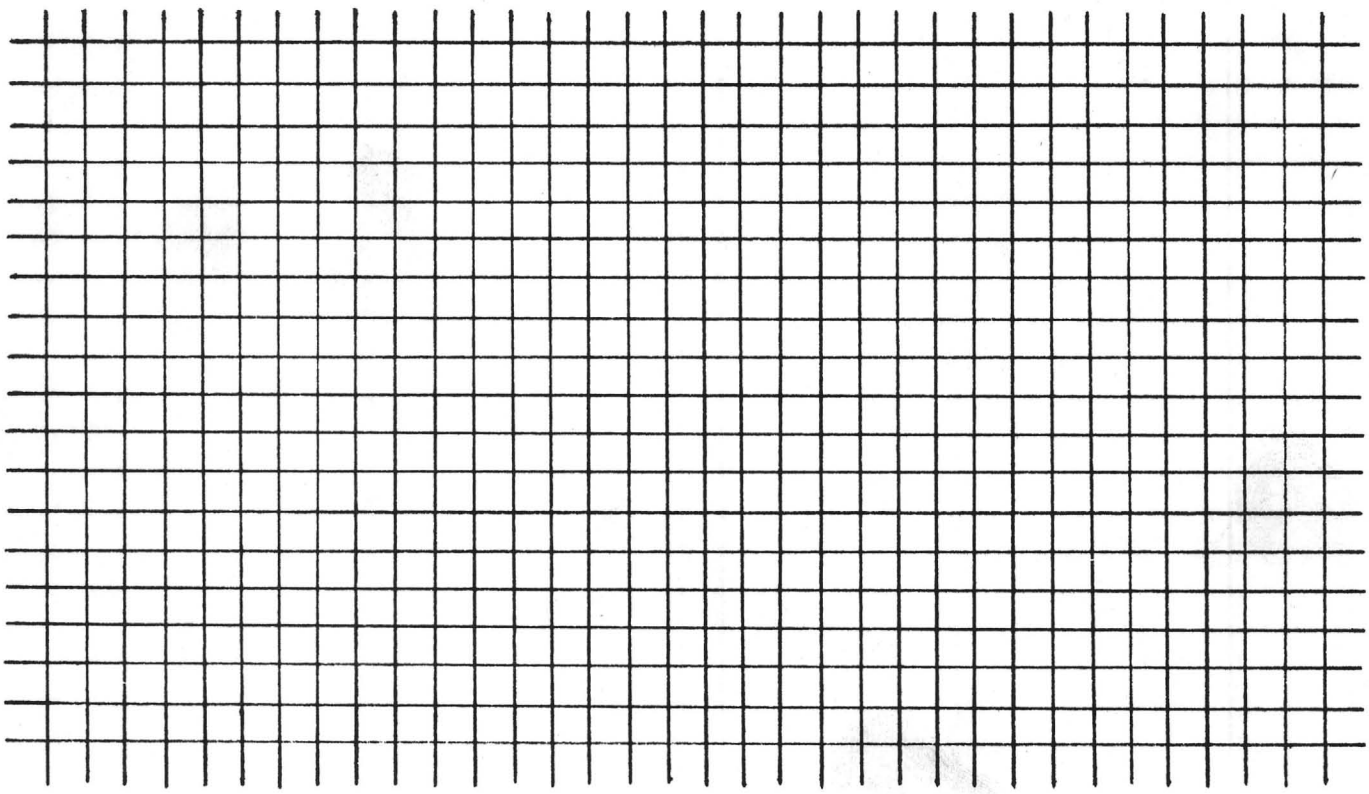
[6]

[ ]
Unit Control

[ ][ ][ ] TERTIARY
Geology

13703 40.19

1	[ ][2][9][4][3] Reading	[6][6][9]	[1][6][1][9] Time	[ ] Quality	MA Observer		Temp.
2	[ ][2][9][4][3] Reading	[6][7][5]	[1][6][2][1] Time	[ ] Quality	MA Observer		Temp.
3	[ ][2][9][4][3] Reading	[6][7][0]	[1][6][2][2] Time	[ ] Quality	MA Observer		Temp.
4	[ ][ ][ ][ ][ ] Reading	[6][7][1]	[ ][ ][ ][ ] Time	[ ] Quality	Observer		Temp.



GRAVITY OBSERVATION FORM

start hour 12

00038
Sequence No.

BAS - 0001 Station Ident | AZ State | County | 02 Month | 12 Day | 81 Year

Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology — PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology — SECONDARY

Elevation | Unit Control | Drift = 0.03 | Geology — TERTIARY

	Reading		Time	Quality	Observer	Temp.
1	02947	959	0811		MA	
2	02947	960	0812		MA	
3	02947	968	0813		MA	
4		962				

SEND < HV39

GRAVITY OBSERVATION FORM End Mar 12

52
Sequence No.

BAS-0001	AZ	GI	02	12	81
Station Ident	State	County	Month	Day	Year

Deg. Latitude	Minutes	F	Station Type		Bedrock	Map	Geology	PRIMARY
Deg. Longitude	Minutes	Meter Type or Number					Geology	SECONDARY
Elevation		F Unit Control					Geology	TERTIARY

	Reading		Time	Quality	Observer	Temp.
1	2948	028	1145		MA	
2	2948	014	1146		MA	
3	2948	011	1147		MA	
4		017				

GRAVITY OBSERVATION FORM

00039
Sequence No.

D - 0001 — Station Ident
AZ — State
__ — County
02 — Month
12 — Day
81 — Year

33 — Deg. Latitude
42 — Minutes
32 — Station Type
__ — Bedrock
__ — Map
__ — Geology — PRIMARY

__ — Deg. Longitude
__ — Minutes
__ — Meter Type or Number
__ — Geology — SECONDARY

Z907 — Elevation
7 — Unit Control
__ — Geology — TERTIARY

142.73 42.51

	Reading	Time	Quality	Observer	Temp.
1	2941 500	0966		MA	
2	2941 465	0907		MA	
3	2941 462	0908		MA	
4	44Z				

NW corner HV3
side of valley

GRAVITY OBSERVATION FORM

40
Sequence No.

D - 0002 | AZ | 6I | 02 | 12 | 81
Station Ident | State | County | Month | Day | Year

33 | 42 | 32 | | | | | | PRIMARY
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Geology

| | | | | SECONDARY
Deg. Longitude | Minutes | Meter Type or Number | Geology

3006 | 8 | | | TERTIARY
Elevation | Unit Control | Geology

146.39 42.76

	Reading		Time	Quality	Observer	Temp.
1	2936	109	0916		MA	
2	2936	109	0917		MA	
3	2936	109	0918		MA	
4		109				

NE cen HW3
Top of Hill

GRAVITY OBSERVATION FORM

0 0 0 4 1
Sequence No.

D - 0 0 0 3
Station Ident

A Z
State

G I
County

0 2
Month

1 2
Day

8 1
Year

3 3 4 2
Deg. Latitude

3 2
Minutes

Station Type

Bedrock

Map

Geology PRIMARY

Deg. Longitude

Minutes

Meter Type or Number

Geology SECONDARY

2 9 5 5 5
Elevation

Unit Control

Geology TERTIARY

145.66 43.80

1	2 9 3 9	9 7 8	0 9 2 5		MA		
	Reading		Time	Quality	Observer	Temp.	
2	2 9 3 9	9 7 9	0 9 2 6		MA		
	Reading		Time	Quality	Observer	Temp.	
3	2 9 3 9	9 7 9	0 9 2 7		MA		
	Reading		Time	Quality	Observer	Temp.	
4		9 7 9					
	Reading		Time	Quality	Observer	Temp.	

NE CORNER HW 3

Hill slope Diabase Bedrock

GRAVITY OBSERVATION FORM

Sequence No.: 42

Station Ident: D - 4

State: | County: | Month: | Day: | Year:

Deg. Latitude: 33 | Minutes: 42 32

Station Type: | Bedrock: | Map: | PRIMARY Geology:

Deg. Longitude: | Minutes: | Meter Type or Number: | SECONDARY Geology:

Elevation: 2954 5 | Unit: | Control: | TERTIARY Geology:

144.39 42.56

	Reading		Time	Quality	Observer	Temp.
1	2938	868	0933		MA	
2	2938	860	0934		MA	
3	2938	864	0935		MA	
4		864				

N END Center HUS

GRAVITY OBSERVATION FORM

43
Sequence No.

D - 005
Station Ident

AZ
State

6 5
County

02
Month

12
Day

81
Year

33 42 32 F
Deg. Latitude | Minutes | Station Type | Bedrock | Map | Primary Geology

Deg. Longitude | Minutes | Meter Type or Number | Secondary Geology

2950 8 F
Elevation | Unit Control | Tertiary Geology

143.89 42.19

1	2938 Reading	726	0948 Time		Quality	MA Observer	Temp.
2	2938 Reading	720	0949 Time		Quality	MA Observer	Temp.
3	2938 Reading	727	0950 Time		Quality	MA Observer	Temp.
4	Reading	724	Time		Quality	Observer	Temp.

NE corner HW5

GRAVITY OBSERVATION FORM

4 4
Sequence No.

D - 0 0 0 6 — Station Ident
A Z — State
G 2 — County
0 2 — Month
1 2 — Day
8 1 — Year

3 3 — Deg. Latitude
4 2 — Minutes
3 2 — Minutes
Station Type
Bedrock
Map
Geology — PRIMARY

Deg. Longitude
Minutes
Meter Type or Number
Geology — SECONDARY

2 9 5 0 — Elevation
5
Unit Control
Geology — TERTIARY

143,83 42,14

	Reading	Time	Quality	Observer	Temp.
1	2938 706	0955		MA	
2	2938 706	0956		MA	
3	2938 703	0957		MA	
4	703				

NEND C HV 7

GRAVITY OBSERVATION FORM

Sequence No. 45

Station Ident 0 - 7 | State | County | Month | Day | Year

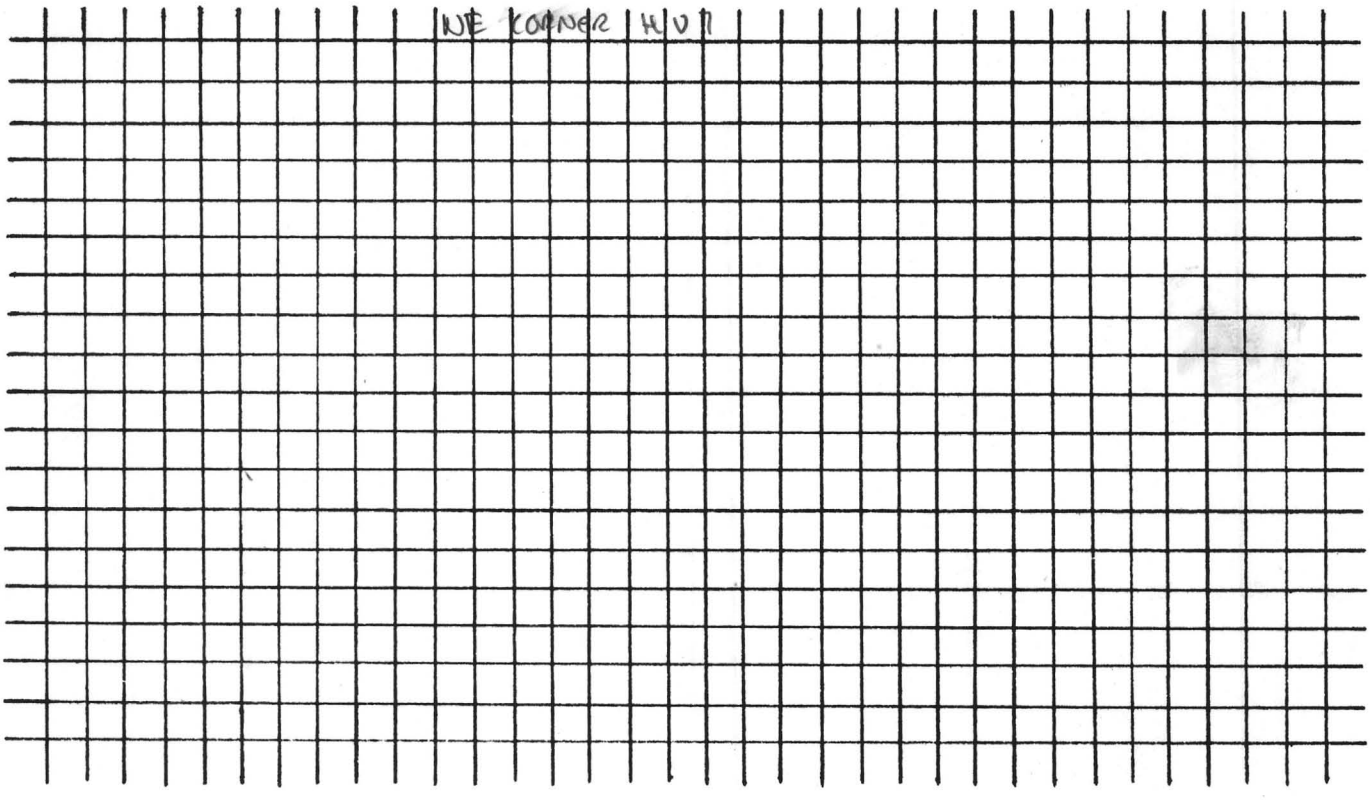
Deg. Latitude 33 | Minutes 42 | Station Type | Bedrock | Map | Geology (PRIMARY)

Deg. Longitude | Minutes | Meter Type or Number | Geology (SECONDARY)

Elevation 3084 2 | Unit Control | Geology (TERTIARY)

145.63 42.09

	Reading	Time	Quality	Observer	Temp.
1	29356 42	1010		MA	
2	29356 31	1011		MA	
3	29356 39	1012			
4	63 7				



GRAVITY OBSERVATION FORM

Sequence No. 46

Station Ident: D-0008 | State | County | Month: 02 | Day: 12 | Year: 81

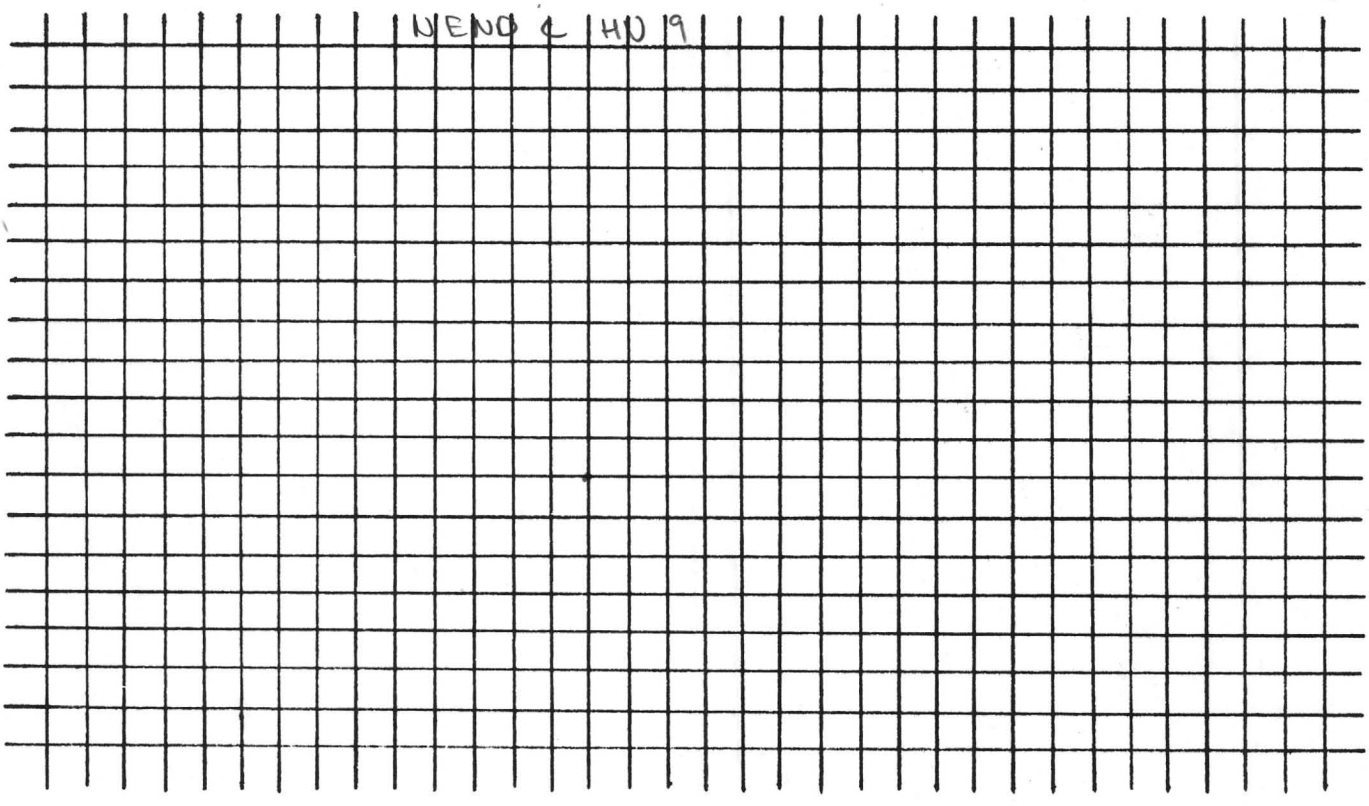
Deg. Latitude: 33 | Minutes: 42 32 | Station Type: F | Bedrock | Map | PRIMARY Geology

Deg. Longitude | Minutes | Meter Type or Number | SECONDARY Geology

Elevation: 2937 5 | Unit Control: F | TERTIARY Geology

144.92 41.96

	Reading		Time	Quality	Observer	Temp.
1	2936	461	1017		MA	
2	2936	450	1018		MA	
3	2936	465	1019		MA	
4		459				



GRAVITY OBSERVATION FORM

Sequence No. 47

Station Ident: D-0009 | State | County | Month | Day | Year

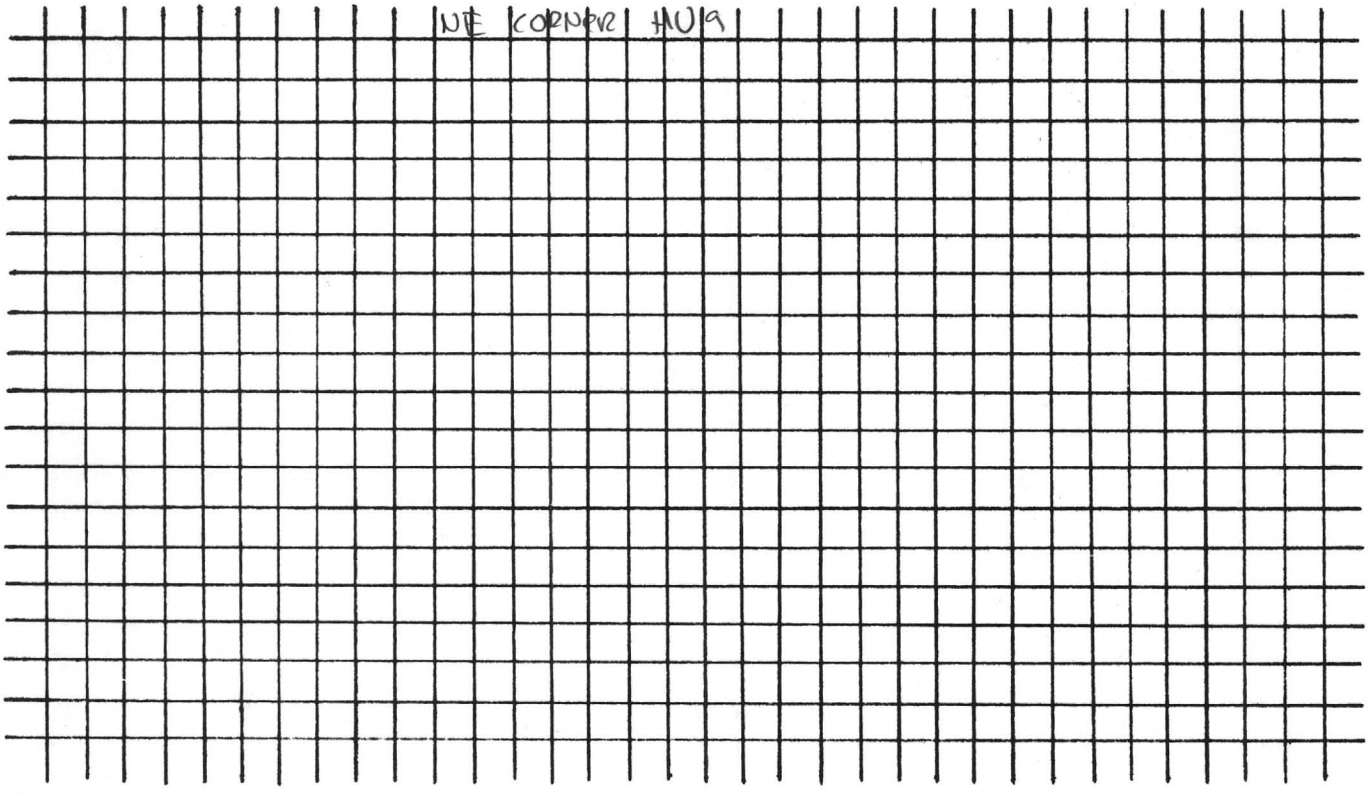
Deg. Latitude: 33 42 | Minutes: 32 | Station Type | Bedrock | Map | Geology: PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology: SECONDARY

Elevation: 3014 2 | Unit Control | Geology: TERTIARY

145.81 41.93

	Reading		Time	Quality	Observer	Temp.
1	2934	940	1025		MA	
2	2934	926	1026		MA	
3	2934	930	1027		MA	
4		932				



GRAVITY OBSERVATION FORM

Sequence No. 48

Station Ident 0-0010 | State | County | Month | Day | Year

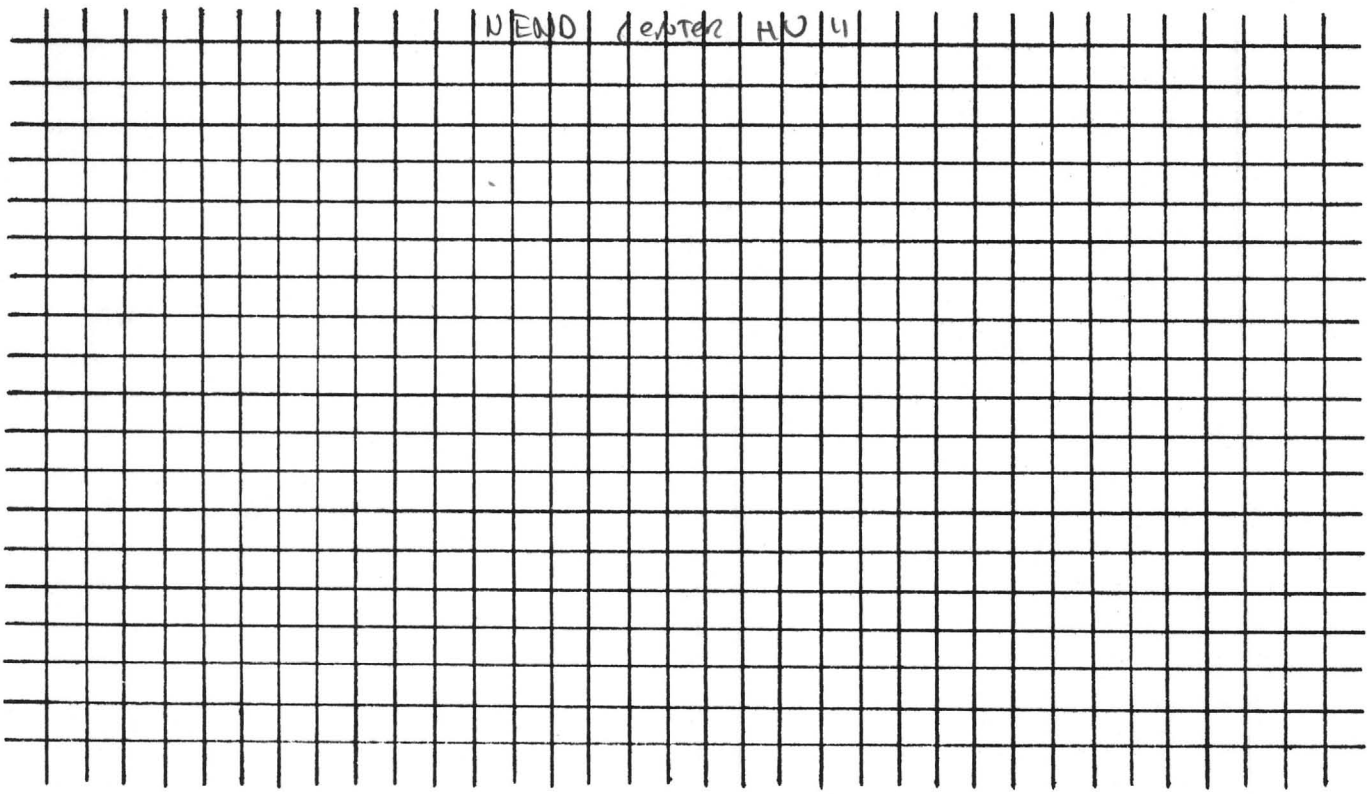
Deg. Latitude 33 12 | Minutes 32 | Station Type | Bedrock | Map | Geology (PRIMARY)

Deg. Longitude | Minutes | Meter Type or Number | Geology (SECONDARY)

Elevation 2979 5 | Unit Control | Geology (TERTIARY)

144.44 41.75

	Reading		Time	Quality	Observer	Temp.
1	2936	700	1036		MA	
2	2936	710	1031		MA	
3	2936	702	1032		MA	
4		704				



GRAVITY OBSERVATION FORM

49
Sequence No.

D-0011 — Station Ident
AZ — State
G1 — County
02 — Month
12 — Day
81 — Year

33 — Deg. Latitude
42 — Minutes
32 — Station Type
Bedrock
Map
Geology — PRIMARY

Deg. Longitude
Minutes
Meter Type or Number
Geology — SECONDARY

2959 — Elevation
6
Unit Control
Geology — TERTIARY

143.38 41.37

1	2937 Reading	520	1040 Time		Quality	MA Observer	Temp.
2	2937 Reading	470	1041 Time		Quality	MA Observer	Temp.
3	2937 Reading	476	1042 Time		Quality	MA Observer	Temp.
4	2987 Reading	481 .476	1043 Time		Quality	MA Observer	Temp.

NE CORRIDOR HV 11

GRAVITY OBSERVATION FORM

Sequence No. 5C

Station Ident D-0012 | State | County | Month | Day | Year

Deg. Latitude 33 42 32 | Minutes | Station Type | Bedrock | Map | Geology (PRIMARY)

Deg. Longitude | Minutes | Meter Type or Number | Geology (SECONDARY)

Elevation 2982 7 | Unit Control | Geology (TERTIARY)

143.95 41.15

	Reading	Time	Quality	Observer	Temp.
1	2935 971	1049		MA	
2	2935 973	1050		MA	
3	2935 965	1051		MA	
4	970				

NE00 Center HV 13

GRAVITY OBSERVATION FORM

Sequence No. 51

Station Ident 0-6013 | State | County | Month | Day | Year

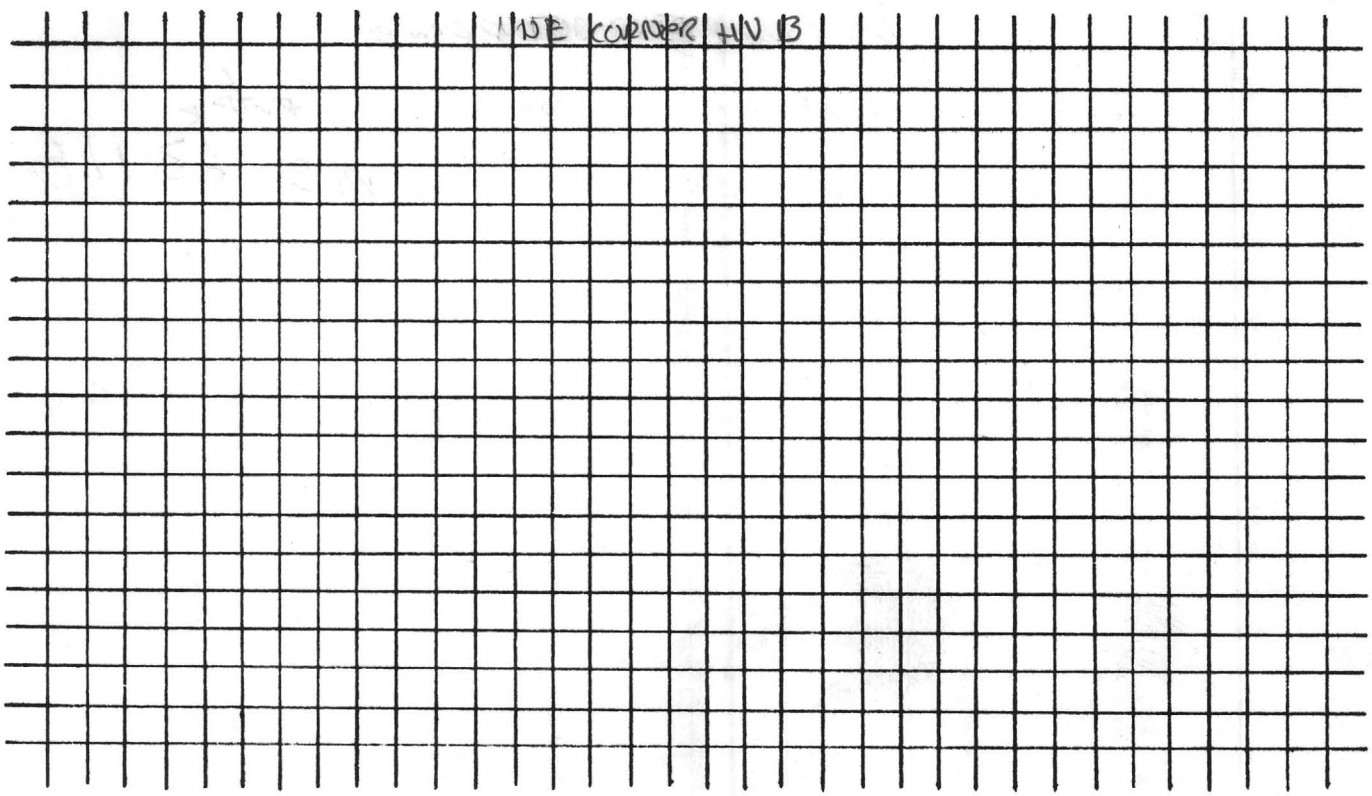
Deg. Latitude 33 | Minutes 42 32 | Station Type | Bedrock | Map | Geology PRIMARY

Deg. Longitude | Minutes | Meter Type or Number | Geology SECONDARY

Elevation 3994 1 | Unit Control | Geology TERTIARY

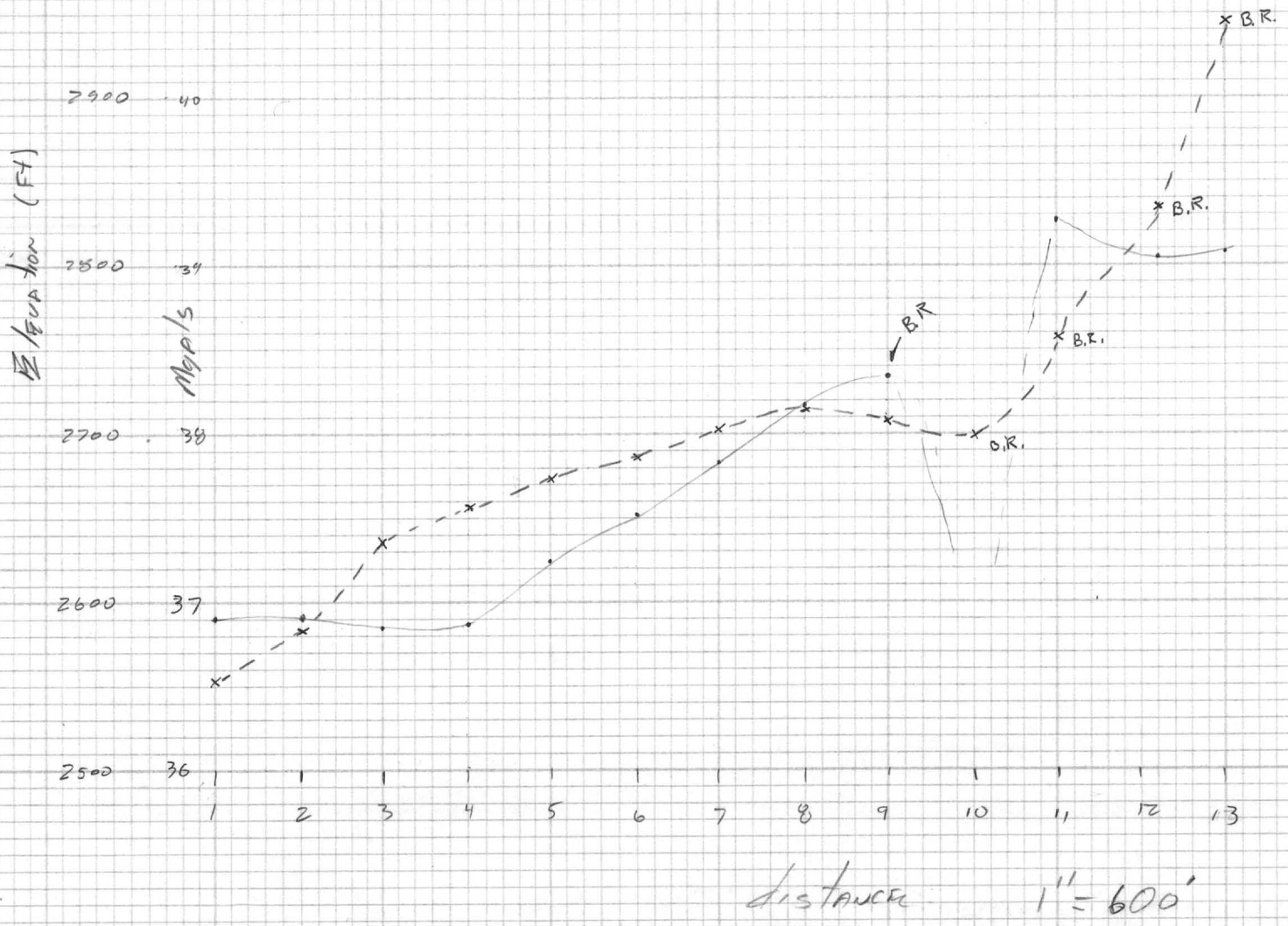
144.13 40.95

	Reading		Time	Quality	Observer	Temp.
1	29352	132	1058		MA	
2	29352	139	1059		MA	
3	29352	145	1100		MA	
4		139				



A — A'

Simple Bouguer Plot



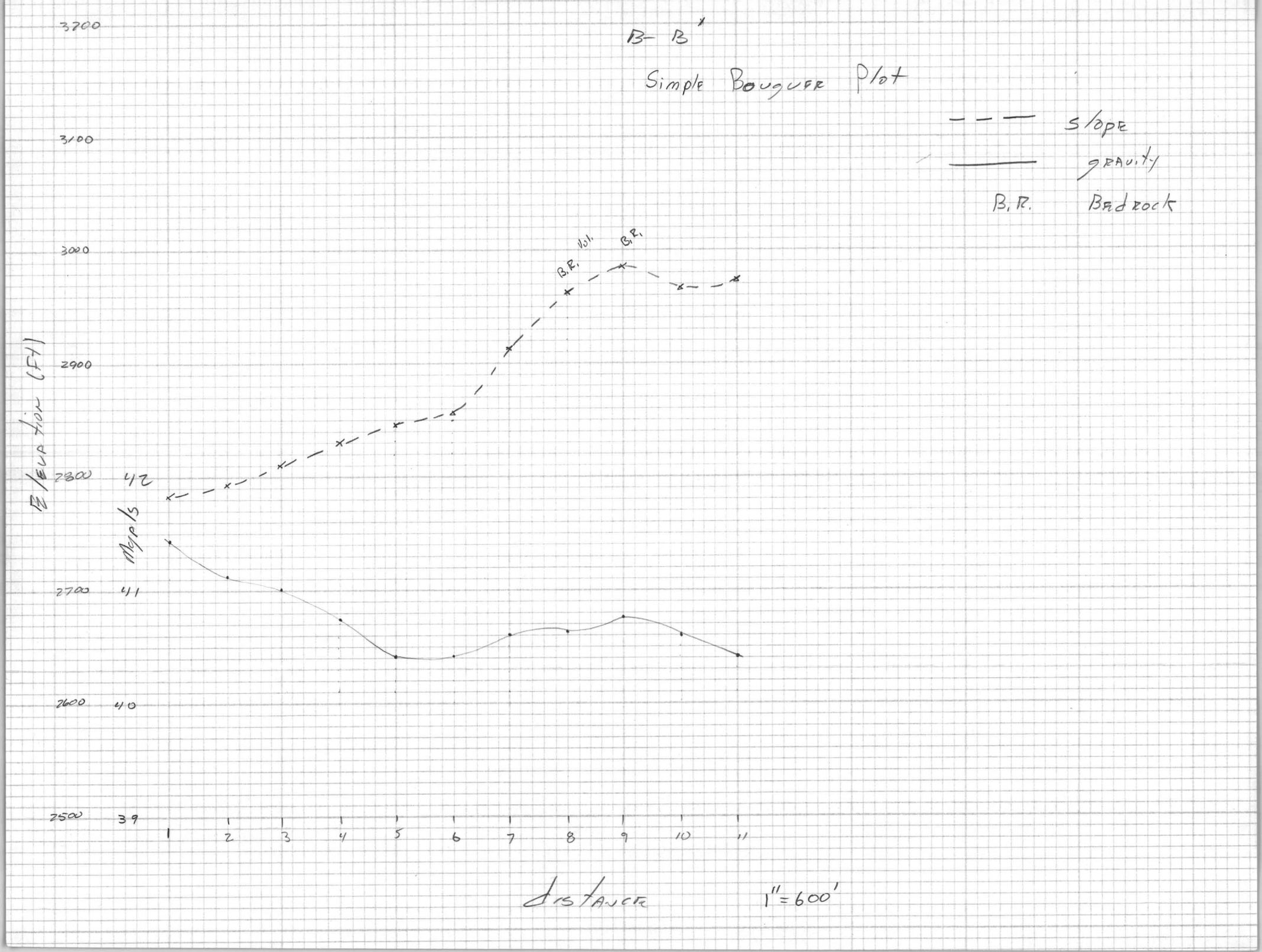
— — — slope

——— gravity

B.R. Bedrock

B- B'

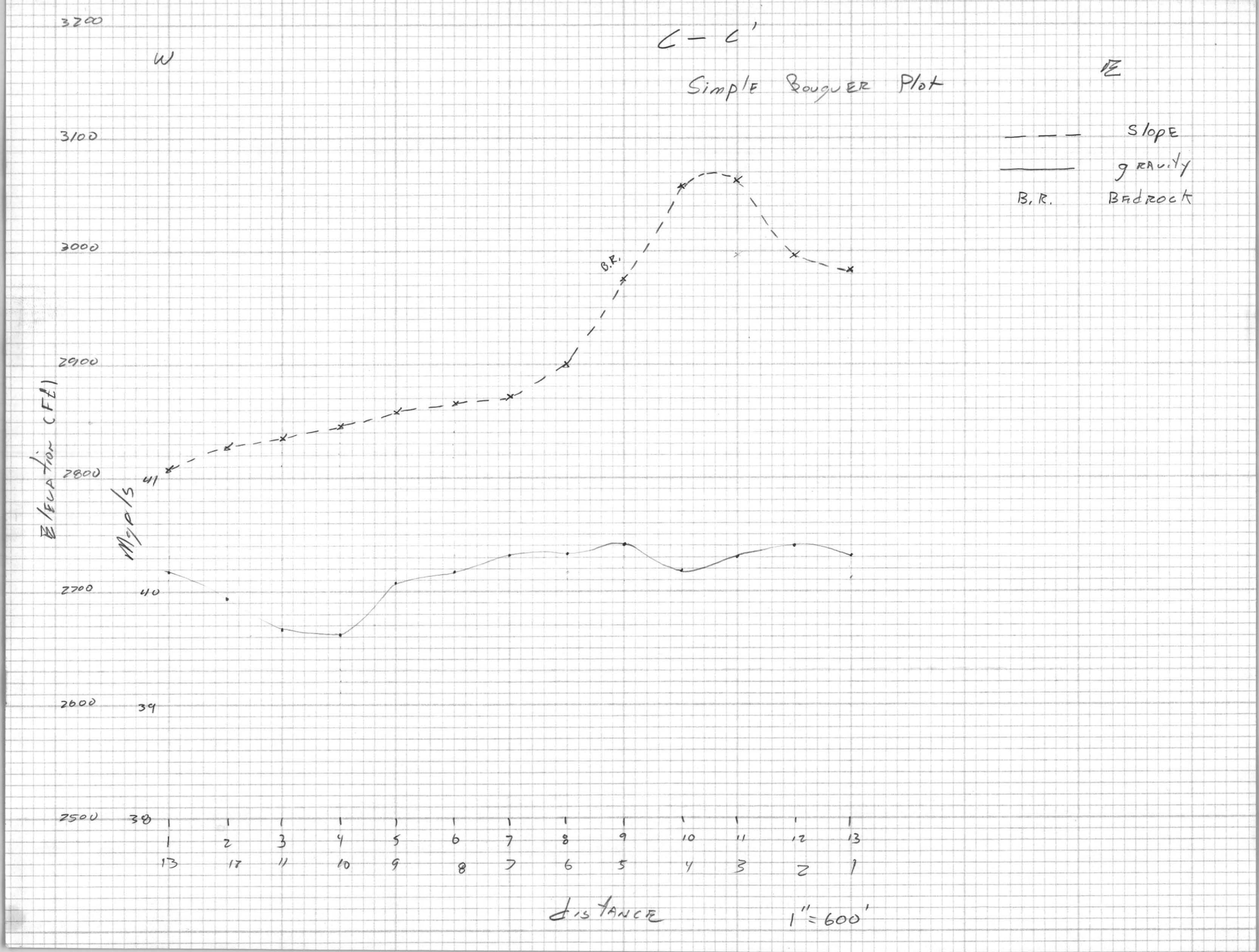
Simple Bouguer Plot



slope

gravity

B.R. Bedrock

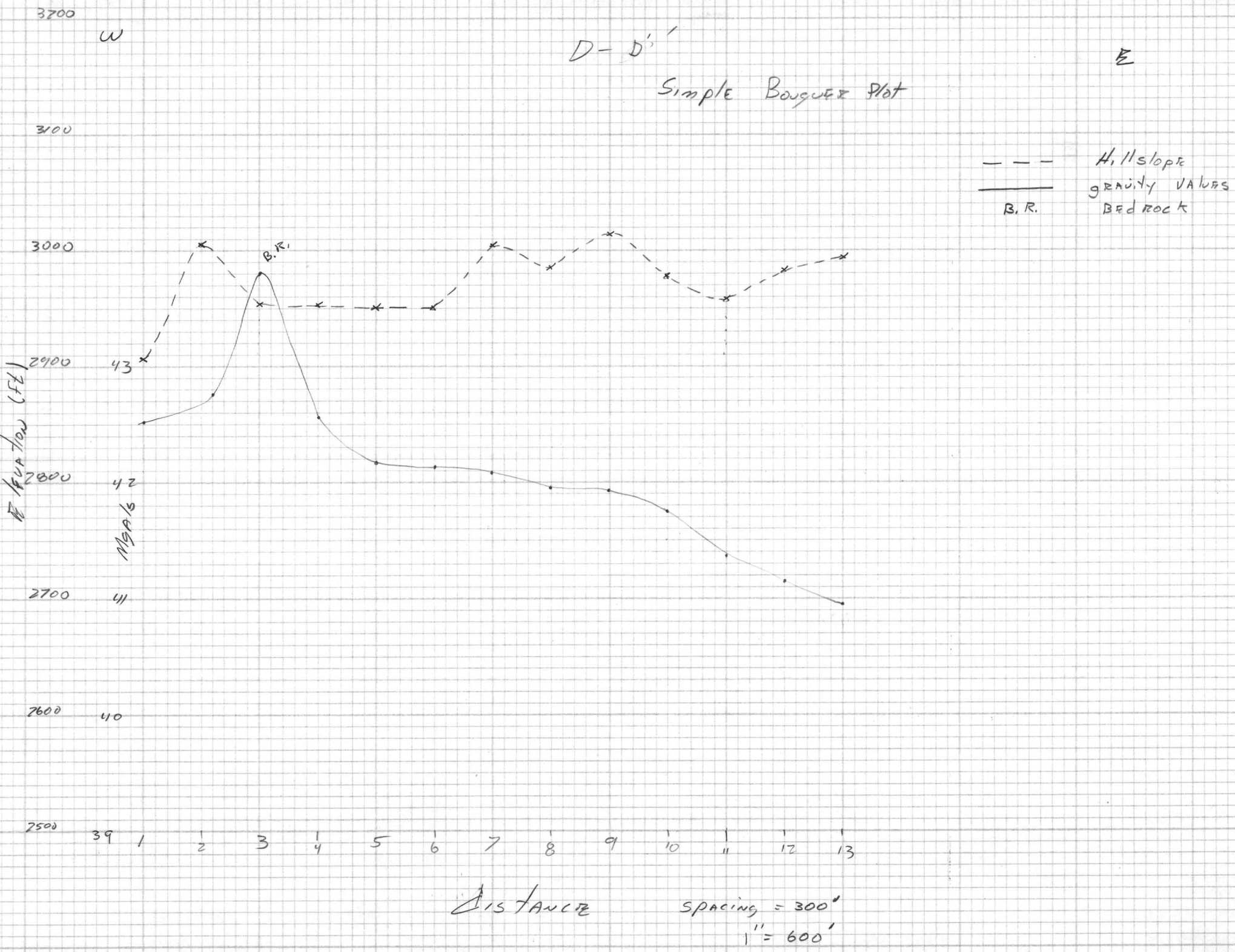

C – C'
Simple Bouguer Plot
W
E
slope
gravity
B.R. Bedrock
3200
3100
3000
2900
2800
2700
2600
2500
B.R.
Elevation (FT)
Mgals
41
40
39
38
1 2 3 4 5 6 7 8 9 10 11 12 13
13 12 11 10 9 8 7 6 5 4 3 2 1
distance
1" = 600'

D - D'

Simple Bouguer Plot

W

E



```
CLRG
RTN
RUN
CLRG
RTN
RUN
DENSITY?
-.20    RUN
VERTICES:X↑Z?
-20.00 ENTER↑
0.00    RUN
VERTICES:X↑Z?
1.00
VERTICES:X↑Z?
2.40 ENTER↑
0.00    RUN
VERTICES:X↑Z?
2.00
VERTICES:X↑Z?
.60 ENTER↑
.70    RUN
VERTICES:X↑Z?
3.00
VERTICES:X↑Z?
.60 ENTER↑
0.00    RUN
XE0 C
DENSITY?
G=-4.67
XE0 A
INDEX ?
-2.00    RUN
FILTER ?
.05    RUN
FILTER ?
-1.00
FILTER ?
.25    RUN
FILTER ?
0.00
FILTER ?
.40    RUN
FILTER ?
1.00
FILTER ?
.25    RUN
FILTER ?
2.00
FILTER ?
.05    RUN
FILTER ?
3.00
XE0 A
INDEX ?
0.00    RUN
DATA ?
5,101.67    RUN
XE0 D
DATA ?
5,088.33    RUN
XE0 D
DATA ?
5,087.67    RUN
XE0 D    5,089.00
XE0 C
RUN
DATA ?
5,093.67    RUN
CONVL=5,089.17
XE0 C
DATA ?
5,086.00    RUN
CONVL=5,089.65
XE0 C
DATA ?
5,087.00    RUN
CONVL=5,089.95
XE0 C
DATA ?
5,079.00    RUN
CONVL=5,087.97
FIX 1
XE0 C
DATA ?
5,082.67    RUN
CONVL=5,084.9
XE0 C
DATA ?
5,077.0    RUN
CONVL=5,082.2
XE0 C
DATA ?
5,076.67    RUN
CONVL=5,080.4
XE0 C
DATA ?
5,082.33    RUN
CONVL=5,080.3
XE0 C
DATA ?
5,080.0    RUN
CONVL=5,079.8
XE0 C
DATA ?
5,078.67    RUN
CONVL=5,080.1
XE0 C
DATA ?
5,070.67    RUN
CONVL=5,079.6
XE0 C
DATA ?
5,069.33    RUN
CONVL=5,076.7
XE0 C
DATA ?
5,066.0    RUN
CONVL=5,072.6
ERROR ?
5,069.33    RUN
CONVL=5,069.3
XE0 C
DATA ?
5,090.67    RUN
CONVL=5,069.1
XE0 C
DATA ?
5,089.0    RUN
CONVL=5,074.8
XE0 C
DATA ?
5,079.33    RUN
CONVL=5,083.1
XE0 C
DATA ?
5,078.33    RUN
CONVL=5,085.5
XE0 C
DATA ?
5,087.33    RUN
CONVL=5,082.5
XE0 C
DATA ?
5,067.67    RUN
CONVL=5,080.8
XE0 C
DATA ?
5,087.67    RUN
CONVL=5,079.8
XE0 C
DATA ?
5,083.33    RUN
CONVL=5,078.9
XE0 C
DATA ?
5,088.33    RUN
CONVL=5,081.6
XE0 C
DATA ?
5,086.0    RUN
CONVL=5,085.0
XE0 C
DATA ?
5,082.67    RUN
CONVL=5,086.2
XE0 C
DATA ?
5,083.67    RUN
CONVL=5,085.5
XE0 C
DATA ?
5,086.0    RUN
CONVL=5,084.2
XE0 C
DATA ?
5,089.33    RUN
CONVL=5,084.4
XE0 C
DATA ?
5,089.33    RUN
CONVL=5,086.3
XE0 C
DATA ?
5,098.67    RUN
CONVL=5,088.7
XE0 C
DATA ?
5,104.33    RUN
CONVL=5,092.2
RUN    5,113.0
ERROR ?
```

(ROOSEVELT 1:125000)

(BLUE HOUSE MTN)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

ROCKINSTRAW MTN. QUADRANGLE
ARIZONA-GILA CO.
15 MINUTE SERIES (TOPOGRAPHIC)

(MC FADDEN PEAK)

(HAUNTED CANYON) 1:24000

(INSPIRATION 1:24000)

(GLOBE 1:24000)

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1957
M R-5919

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USFS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1949

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, east zone

Dashed land lines indicate approximate location

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

APPROXIMATE MEAN DECLINATION, 1949

SCALE 1:62500

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS — DRY WEATHER ROADS
Heavy-duty — 4 LANE 16 LANE — Improved dirt
Medium-duty — 4 LANE 16 LANE — Unimproved dirt
Loose-surface, graded, or narrow hard-surface
U. S. Route — State Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROCKINSTRAW MTN., ARIZ.
N3330—W11045/15

1949

UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE
SOUTHWESTERN REGION

R.13 E.

FOREST SERVICE MAP CLASS C (0.05)

R.14 E.

This map enlarged from a USGS 1949 standard accuracy map, 1:62,500 scale.

Conversion by U.S. Forest Service, Regional Office, Albuquerque, New Mexico.
Field edit and accuracy check by USFS 1972

Polyconic projection. 1927 North American datum
10,000-foot grids based on Arizona coordinate system, east zone.

13¾°
TRUE NORTH
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 1972

ROAD CLASSIFICATION

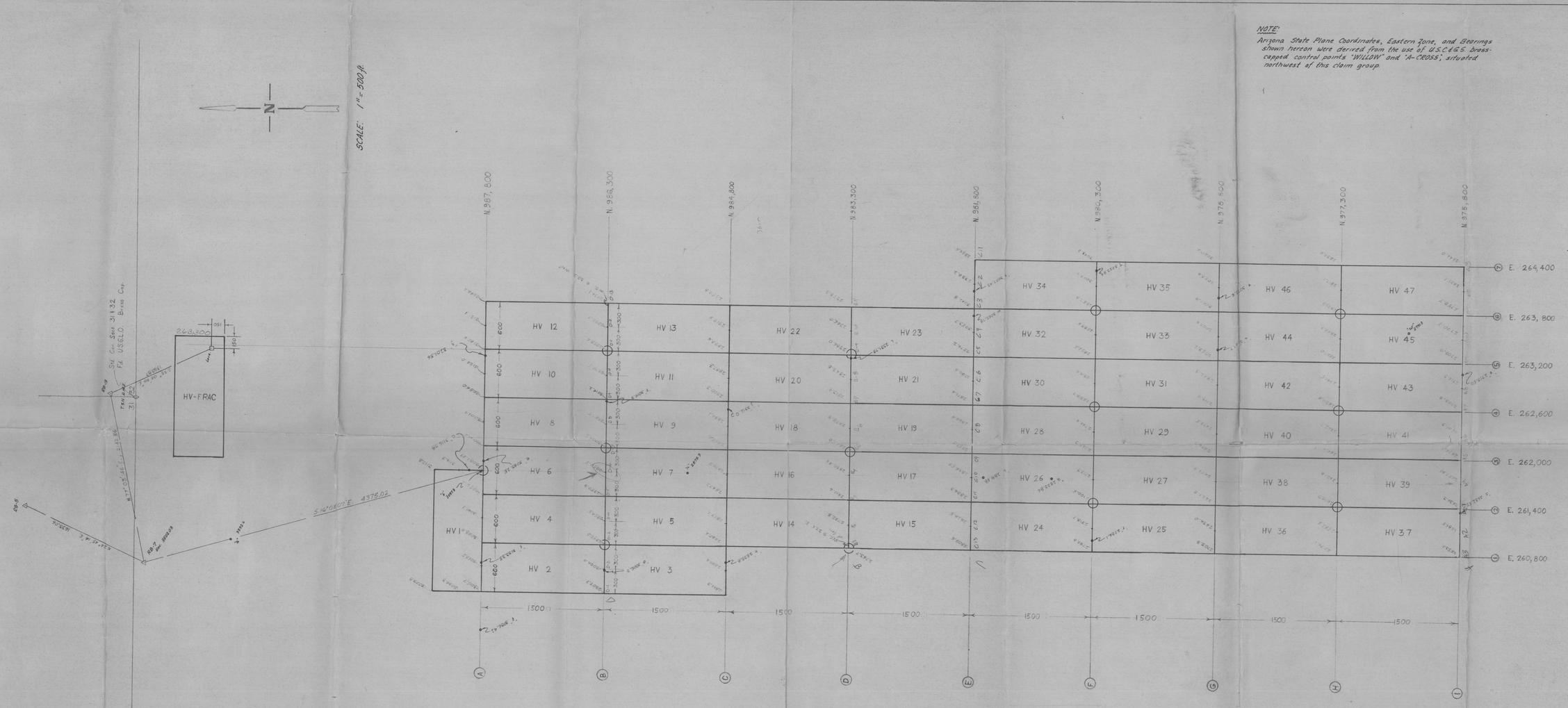
Paved road
All weather road
Dirt road
Primitive road

SCALE

1 ½ 0 1

LANDS OTHER THAN NATIONAL FOREST WITHIN FOREST BOUNDARY

Note: All Tonto National Forest route numbers shown on this map are prefixed by "12" on official records dated 1972. (Roads shown on this map within forest boundary that do not have a route number are not maintained and public travel is not advised



NOTE:
Arizona State Plane Coordinates, Eastern Zone, and Bearings shown hereon were derived from the use of U.S.C.&G.S. brass-capped control points "WILLOW" and "A-CROSS", situated northwest of this claim group.

NOTE:
The Corners and End-Centers of all claims shown hereon were monumented with 2 ins. x 2 ins. wooden posts 4½ ft. long and projecting at least 4 feet above ground surface. To each post was affixed an aluminum tag identifying the post with respect to each claim corner it represents. Similarly, 2 ins. x 2 ins. "Location Monument" posts were set and tagged within 10 feet of the corners indicated hereon with open circles.

Travis L. Gant

Survey & Monumentation By:

TRAVIS L. GANT & ASSOCIATES
PROFESSIONAL ENGINEERS & SURVEYORS
110 BLAZER DR. GLOBE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE
3703
TRAVIS LEE GANT
ARIZONA, U.S.A.

PLAT of SURVEY

showing location of the

"HV" GROUP

of Unpatented Lode Claims
situated in
Uns. Secs. 5, 6, 7, 8, 17 & 20.
T. 4 N. R. 14 E., G. & S.R.M.
GILA COUNTY, ARIZONA

OCTOBER 30, 1980

DRWG. No. 80036-E-1

GRAVITY DATA

STATION NUMBER	NORTH LATITUDE (DEG)	(MIN)	WEST LONGITUDE (DEG)	(MIN)	ELEV (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	CURV CORR (MGAL)	TERH CORR (MGAL)	TOPO CORR (MGAL)	COMPLETE RHO 2.67 (MGAL)	BOUGUER RHO 2.60 (MGAL)	ANOMALY RHO 2.40 (MGAL)	
A3	33	40.794	110	57.158	2552.99	979506.240	124.892	0.925	0.000	2.156	39.049	41.275	47.636	A
A2	33	40.794	110	57.096	2584.99	979504.372	126.038	0.934	0.000	2.116	39.055	41.311	47.757	
A1	33	40.794	110	57.038	2635.99	979501.230	127.700	0.948	0.000	2.018	38.865	41.169	47.752	
C13	33	41.783	110	57.180	2809.99	979495.593	137.077	0.995	0.000	2.363	42.606	45.057	52.059	
C12	33	41.783	110	57.122	2828.99	979494.206	137.480	1.000	0.000	2.356	42.349	44.816	51.868	C
C11	33	41.783	110	57.064	2836.99	979493.447	137.475	1.002	0.000	2.371	42.084	44.558	51.629	
B1	33	42.029	110	57.181	2783.99	979498.736	137.429	0.988	0.000	2.471	43.960	46.384	53.312	
B2	33	42.029	110	57.123	2792.99	979497.886	137.427	0.990	0.000	2.596	43.773	46.202	53.143	B
B3	33	42.030	110	57.065	2810.99	979496.703	137.938	0.995	0.000	2.599	43.669	46.114	53.101	
D1	33	42.532	110	57.302	2907.99	979493.078	142.752	1.020	0.000	3.124	45.674	48.192	55.388	
D2	33	42.532	110	57.241	3006.99	979487.403	146.402	1.045	0.000	2.872	45.671	48.284	55.752	
D3	33	42.532	110	57.183	2955.99	979491.514	145.709	1.032	0.000	2.968	46.826	49.391	56.721	
D4	33	42.533	110	57.125	2954.99	979490.335	144.435	1.032	0.000	3.060	45.678	48.240	55.560	D
D5	33	42.533	110	57.068	2950.99	979490.180	143.903	1.031	0.000	3.109	45.333	47.890	55.196	
D6	33	42.533	110	57.006	2950.99	979490.154	143.877	1.031	0.000	3.189	45.387	47.942	55.242	
A4	33	40.794	110	56.995	2657.99	979499.950	128.492	0.954	0.000	2.066	38.949	41.272	47.907	
A5	33	40.795	110	56.938	2673.99	979499.361	129.408	0.958	0.000	2.163	39.412	41.746	48.416	
A6	33	40.795	110	56.880	2688.89	979498.740	130.191	0.963	0.000	2.102	39.621	41.971	48.683	
A7	33	40.795	110	56.819	2703.99	979498.166	131.039	0.967	0.000	2.115	39.964	42.326	49.076	
A8	33	40.796	110	56.761	2716.99	979497.722	131.818	0.970	0.000	2.075	40.256	42.631	49.417	A
A9	33	40.796	110	56.703	2708.99	979498.369	131.712	0.968	0.000	2.211	40.560	42.925	49.680	
A10	33	40.797	110	56.641	2700.99	979495.178	127.766	0.966	0.000	2.545	37.224	39.573	46.282	
A11	33	40.797	110	56.584	2758.99	979496.334	134.385	0.981	0.000	2.758	42.062	44.457	51.299	
A12	33	40.797	110	56.526	2834.99	979491.523	136.733	1.001	0.000	2.892	41.931	44.390	51.417	
A13	33	40.798	110	56.464	2945.99	979484.935	140.599	1.030	0.000	3.049	42.140	44.694	51.992	
C10	33	41.782	110	56.999	2846.99	979492.800	137.771	1.004	0.000	2.432	42.097	44.579	51.671	
C9	33	41.783	110	56.942	2859.99	979492.473	138.667	1.008	0.000	2.483	42.598	45.090	52.211	
C8	33	41.783	110	56.884	2867.99	979492.062	139.009	1.010	0.000	2.437	42.619	45.120	52.264	
C7	33	41.784	110	56.823	2871.99	979492.002	139.325	1.011	0.000	2.582	42.942	45.443	52.587	
C6	33	41.784	110	56.765	2900.99	979490.281	140.335	1.018	0.000	2.602	42.976	45.502	52.718	
C5	33	41.784	110	56.708	2975.99	979485.834	142.953	1.037	0.000	2.478	42.893	45.489	52.906	
C4	33	41.785	110	56.647	3053.99	979480.997	145.462	1.057	0.000	2.715	42.959	45.618	53.217	
C3	33	41.785	110	56.589	3062.99	979480.559	145.871	1.059	0.000	2.778	43.122	45.789	53.406	
C2	33	41.786	110	56.532	2997.99	979484.526	143.714	1.043	0.000	2.890	43.310	45.915	53.358	
C1	33	41.786	110	56.471	2984.99	979485.246	143.210	1.040	0.000	3.593	43.955	46.530	53.887	
B4	33	42.033	110	57.003	2829.99	979495.235	138.256	1.000	0.000	2.626	43.360	45.822	52.855	
B5	33	42.033	110	56.946	2846.99	979493.918	138.540	1.004	0.000	2.685	43.119	45.594	52.667	
B6	33	42.033	110	56.888	2858.99	979493.222	138.974	1.007	0.000	2.816	43.272	45.755	52.848	
B7	33	42.033	110	56.827	2912.99	979490.139	140.977	1.021	0.000	2.664	43.268	45.803	53.046	
B8	33	42.033	110	56.769	2963.99	979487.149	142.791	1.034	0.000	2.612	43.277	45.859	53.236	B
B9	33	42.033	110	56.711	2985.99	979485.969	143.684	1.040	0.000	2.597	43.399	46.001	53.435	
B10	33	42.033	110	56.650	2965.99	979486.998	142.829	1.035	0.000	2.863	43.497	46.074	53.437	
B11	33	42.033	110	56.592	2972.99	979486.370	142.860	1.036	0.000	3.189	43.614	46.189	53.545	
D7	33	42.534	110	56.946	3003.99	979486.888	145.602	1.044	0.000	3.071	45.173	47.778	55.223	
D8	33	42.534	110	56.888	2987.99	979487.759	144.965	1.040	0.000	3.257	45.272	47.858	55.248	

GRAVITY DATA

STATION NUMBER	NORTH LATITUDE (DEG)	(MIN)	WEST LONGITUDE (DEG)	(MIN)	ELEV (FT)	OBSERVED GRAVITY (MGAL)	FREE AIR ANOMALY (MGAL)	CURV CORR (MGAL)	TERH CORR (MGAL)	TOPO CORR (MGAL)	COMPLETE RHO 2.67 (MGAL)	BOUGUER RHO 2.60 (MGAL)	ANOMALY RHO 2.40 (MGAL)
D9	33	42.534	110	56.827	3013.99	979486.131	145.786	1.047	0.000	3.184	45.127	47.739	55.200
D10	33	42.534	110	56.769	2979.99	979488.024	144.477	1.038	0.000	3.455	45.256	47.830	55.185
D11	33	42.534	110	56.711	2959.99	979488.840	143.409	1.033	0.000	3.725	45.145	47.694	54.978
D12	33	42.534	110	56.650	2982.99	979487.236	143.971	1.039	0.000	3.906	45.099	47.664	54.992
D13	33	42.534	110	56.592	2993.99	979486.348	144.120	1.042	0.000	4.416	45.379	47.940	55.258