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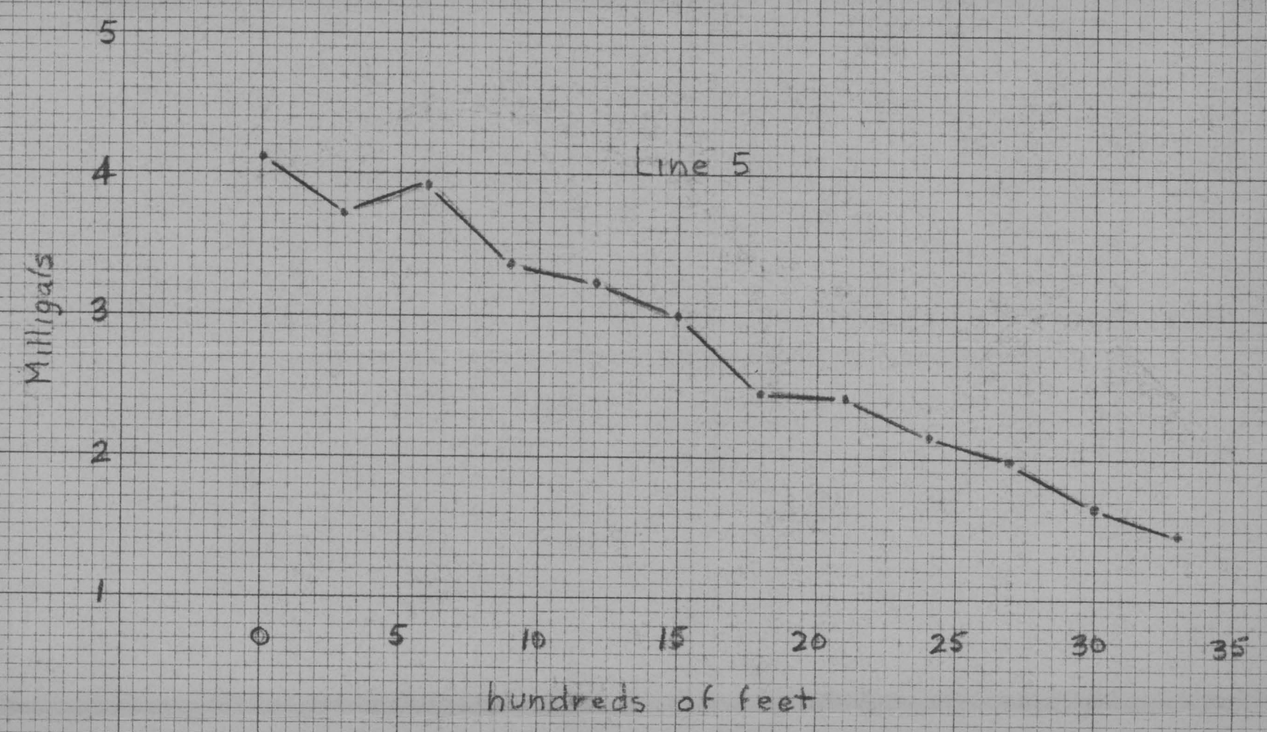
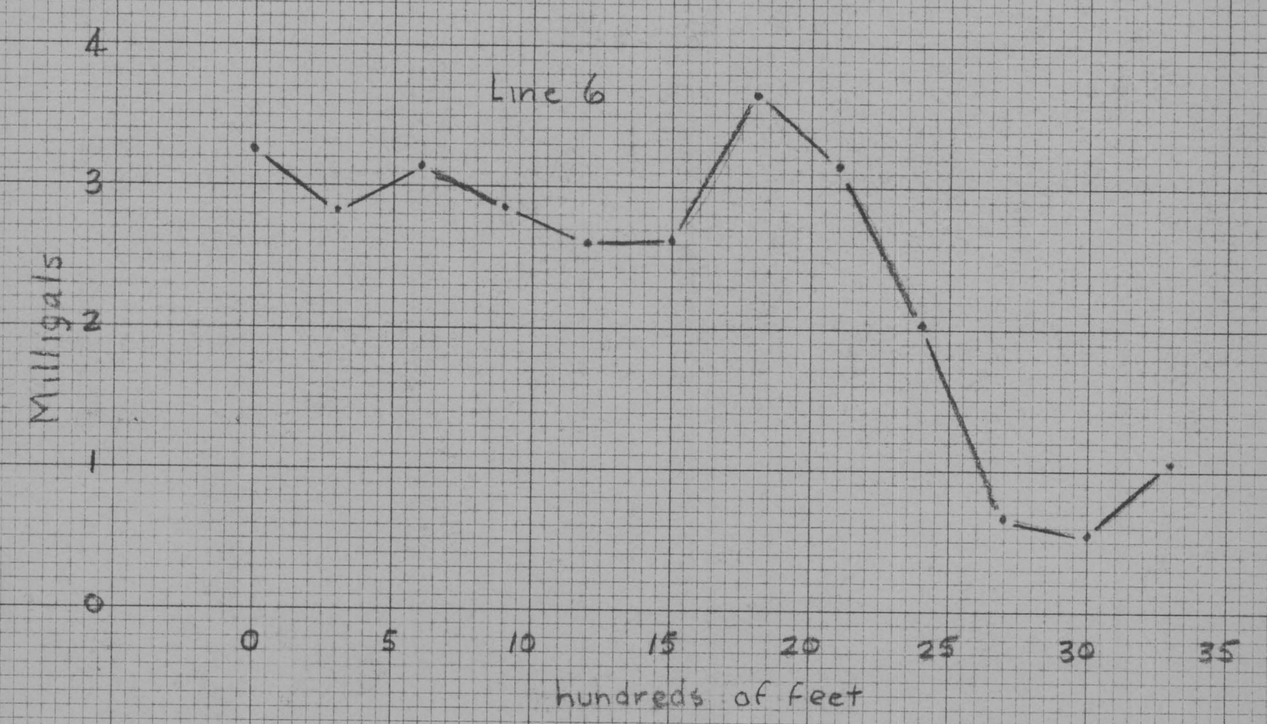
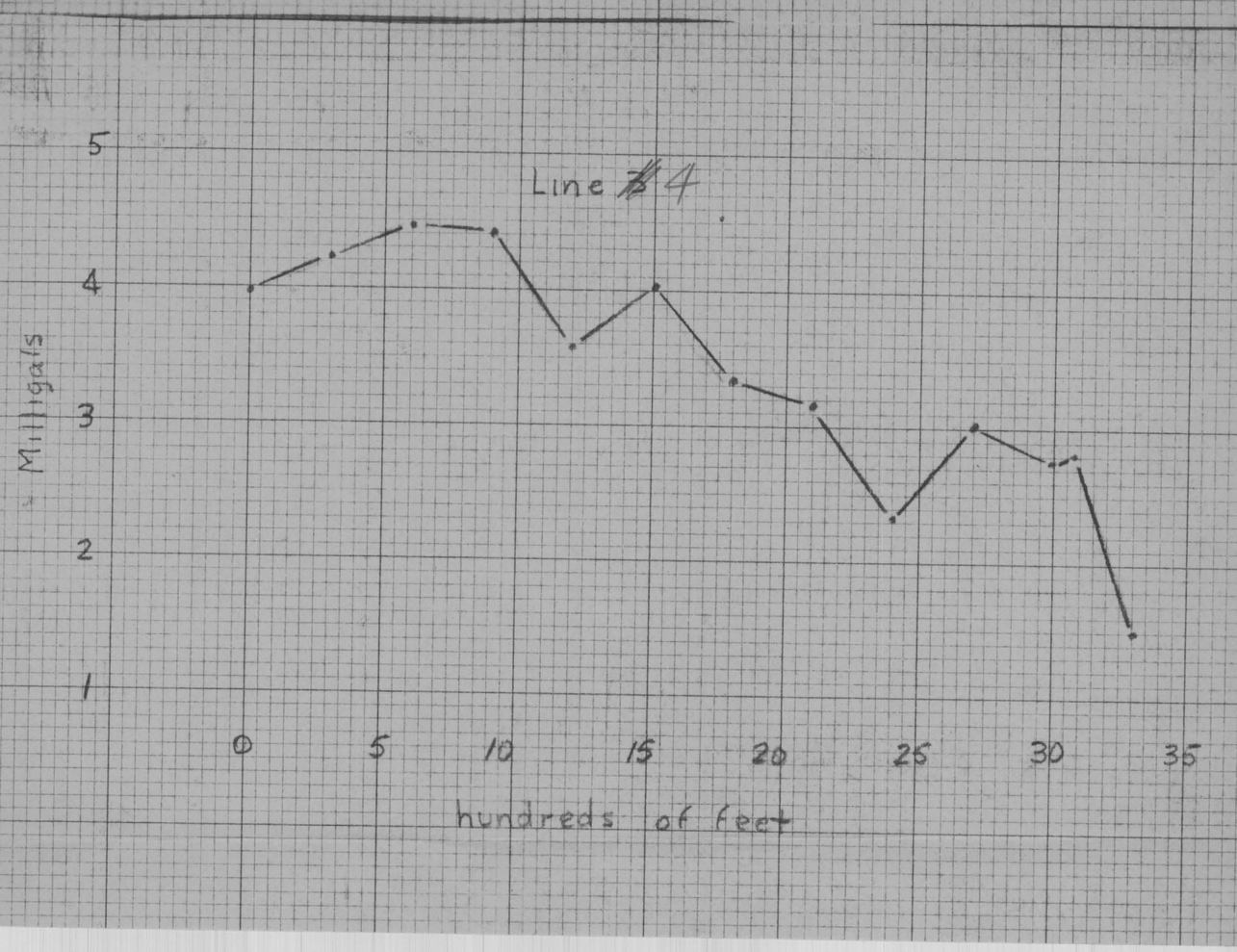
Mohave Co., Ariz.
Westend Claims
Gravity Profiles
for
Arkla Exploration Co.
Dec. 1964

HEINRICHS
GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA

All Profiles looking north
H Scale 1" = 500'
V " 1" = 1 mlg.







Gravity Survey for Arkla Gas Co.

Computed & Checked by R.E.P. — Westend Claim Group Lines 1-6 Dec. 1964

Density Factor 2.68 — Scale constant .09760 — Lattitude Correction 1.225

HEINRICHS GEOEX — GEOPHYSICAL ENGINEERS — TUCSON, ARIZONA

Line	& Station	Reading Scale Div	Reading in Milligals .09760	Miles N of Baseline	Lat Corr. 1.225	Elev	Terr Corr 2.65-.06025	Gravity Value	Gravity D.Ff. -217.00
1	0	10754	10496	428	-525	2000.00	12050	22021	
	3+00	10738	10486			12-	12122	22077	
	6+00	10675	10419			21-	12177	22071	
	9+00	10647	10391			23-	12189	22055	
	12+00	10562	10309			36-	12267	22051	
	15+00	10380	10131			60-	12412	22018	
	18+00	10452	10201			50-	12351	22057	
	21+00	10351	10103			60-	12412	21990	
	24+00	10065	9823			97-	12646	21944	
	27+00	9325	9101			197-	13237	21813	
	30+00	9605	9374			156-	12990	21839	
	30+67	9496	9463			141-	12900	21838	
	33+00	9400	9174			178-	13122	21771	
2	5+00	9602	9372	419	514	156-	12990	21848	
	10+00	9279	9056	409	502	198-	13243	21806	
	15+00	9143	8924	400	491	2220-	13376	21809	
3	0	11003	10739	400	491	1967-	11851	22099	
	3+00	10963	10719			74-	11893	22121	
	6+00	10934	10672			86-	11966	22147	
	9+00	10985	10721			1977	11911	22141	
	12+00	10387	10138			2060-	12412	22059	
	15+00	10481	10229			52-	12363	22101	
	18+00	10271	10024			75-	12502	22035	
	21+00	9903	9665			132-	12845	22019	
	24+00	9665	9433			156-	12990	21932	
	27+00	9964	9725			119-	12767	22001	
	30+00	9988	9748			111-	12719	21976	
	30+67	9852	9616			132-	12857	21982	
4	5+00	10940	10677	409	502	1979-	11887	22062	
	10+00	10851	10591	419	514	1988-	11978	22055	
5	0	10853	10593	419	514	1997-	12032	22111	
	3+00	10742	10481			2009-	12104	22071	
	6+00	10686	10430			21-	12177	22093	
	9+00	10773	10514			1998-	12038	22038	
	12+00	10561	10308			2030-	12231	22025	
	15+00	10385	10331			22-	12183	22000	
	18+00	10426	10176			39-	12285	21947	
	21+00	10101	9859			81-	12598	21943	
	24+00	9905	9667			2118-	12761	21914	
	27+00	9631	9400			60-	13014	21900	
	30+00	9306	9083			2207-	13297	21866	

Line #	Station	Reading Scale Div	Reading in Milligals .09760	Miles N of Baseline	Latt. Corr. 1.225	Elev.	Terr Corr 2.65-.06025	Gravity Value	Gravity Diff. -217.00
6	0	10939	10676	409	-502	1967	118.51	220.25	3.25
	3+00	10894	10633			67	118.51	219.82	2.82
	6+00	10854	10594			79	119.23	220.15	3.15
	9+00	10812	10553			81	119.36	219.87	2.87
	12+00	10390	10141			2045	123.21	219.60	2.60
	15+00	10388	10139			46	123.27	219.64	2.64
	18+00	10181	9888			2105	126.83	220.69	3.69
	21+00	9799	9661			34	128.57	220.16	3.16
	24+00	9269	9047			2217	133.57	219.02	2.02
	27+00	8605	8594			70	136.77	217.69	0.69
	30+00	8833	8621			63	136.35	217.54	0.54
7	0								
	5+00								
	10+00								
	15+00								
	20+00								
	25+00								
8	5+00								
"	10+00								
9	5+00								
	10+00								
	15+00								
	20+00								
	25+00								
10	5+00								
	10+00								

Line	Station	Field Read + daily Drift	Overall Drift	Corrected Reading	Reading in Milligals	Miles North of Baseline	Latitude Correction 1.225 mg/m.	Elevation in Feet	Terr. Corr. .06025 mg/ft.	Gravity Value	Gravity Diff −215.00
7	0	10299	0		10052	400	−490	2040	−12291	21853	353
	5+00	10219			9974	409	−501	55	−12381	21854	354
	10+00	10175			9931	419	−513	62	−12424	21842	342
	15+00	10048			9807	428	−524	81	−12538	21821	321
	20+00	9949			9710	438	−537	80	−12532	21705	205
	25+00	9771			9536	447	−548	114	−12737	21725	225
8	5+00	9334			9110	447	−548	167	−13056	21618	118
"	10+00	8942			8727	447	−548	218	−13363	21542	042
9	5+00	9509			9281	438	−537	159	−13008	21752	252
	10+00	9986			9786	428	−524	80	−12532	21794	294
	15+00	10189			9944	419	−513	46	−12327	21758	258
	20+00	10294			10047	409	−501	30	−12231	21777	277
	25+00	10505			10253	400	−490	08	−12098	21861	361
10	5+00	10394			10145	400	−490	27	−12213	21868	368
"	10+00	10306			10059	400	−490	40	−12291	21860	360
11	0+00	10023	−388	9635	9404	400	−490	2139	−12887	21801	301
	5+00	10213		9825	9589	409	−501	09	−12707	21795	295
	10+00	10228		9840	9604	419	−513	2099	−12646	21737	237
	15+00	9879		9491	9263	428	−524	2151	−12960	21699	199
	20+00	9853		9465	9238	438	−537	66	−13050	21751	251
	25+00	10142		9754	9520	447	−548	31	−12839	21811	311
12	0+00	10175		9787	9552	447	−548	2116	−12749	21753	253
	5+00	10075		9687	9455	438	−537	26	−12809	21727	227
	10+00	9548		9160	8940	428	−524	2221	−13382	21798	298
	15+00	10303		9915	9677	419	−513	2089	−12586	21750	250
	20+00	10557		10169	9925	409	−501	63	−12430	21854	354
	25+00	10607		10219	9974	400	−490	54	−12375	21859	359
13	0+00	10767		10379	10130	400	−490	2025	−12201	21841	341
	5+00	10716		10328	10080	409	−501	30	−12231	21810	310
	10+00	10534		10146	9902	419	−513	51	−12357	21746	246
	15+00	10499		10111	9868	428	−524	61	−12418	21762	262
	20+00	10215		9827	9591	438	−537	93	−12610	21664	164
	25+00	9714		9326	9102	447	−548	2175	−13104	21658	158

Line	& Station	Field Read and daily drift	Overall Drift	Corrected Reading	Reading in Milligals	Miles N of Baseline	Lattitude Correction 1.225 mg/mi	Elevation in feet	CB & FA Correction 265/.06025 mg/ft.	Gravity Value	Gravity Difference -215.00
14	0+00	8174	-388	7786	7599	447	548	2347	14141	21192	-308
	5+00	9757		9369	9144	438	537	2150	12954	21561	061
	10+00	10245		9857	9620	428	524	2081	12538	21634	134
	15+00	10427		10039	9798	419	513	61	12418	21703	203
	20+00	10610		10222	9977	409	501	40	12291	21767	267
	25+00	10727		10339	10091	400	490	25	12201	21802	302
					+		−		+		−198.00
15	0+00	6924	NONE	SAME AS	6931	1364	1671	2538	15291	20551	751
	5+00	7190		Colm # 1	7197	74	1683	2497	15044	20558	758
	10+00	7337			7344	83	1694	74	14906	20556	756
	15+00	7401			7408	93	1706	57	14803	20505	705
	20+00	7313			7320	1402	1717	65	14852	20455	655
	25+00	7389			7396	12	1729	56	14797	20454	654
	30+00	7433			7440	21	1741	45	14731	20430	630
16	0+00	7049			7056	1364	1671	2511	15129	20514	714
	5+00	7252			7259	74	83	2476	14918	20494	694
	10+00	7370			7377	83	94	51	14767	20450	650
	15+00	7418			7425	93	1706	47	14743	20462	662
	20+00	7325			7332	1402	17	63	14840	20455	655
	25+00	7408			7415	12	29	48	14749	20435	635
	30+00	7469			7476	21	41	38	14689	20424	624
17	0+00	7114			7121	1364	1671	2500	15063	20513	713
	5+00	7265			7272	74	83	483	14960	20549	749
	10+00	7380			7387	83	94	58	14809	20502	702
	15+00	7418			7425	93	1706	56	14797	20516	716
	20+00	7394			7401	1402	17	65	14852	20536	736
	25+00	7434			7441	12	29	68	14870	20582	782
	30+00	7493			7500	21	41	57	14803	20562	762
18	0+00	7113			7120	1364	1671	2509	15117	20566	766
	5+00	7276			7283	74	83	474	14906	20506	706
	10+00	7396			7403	83	94	63	14840	20549	749
	15+00	7455			7462	93	1706	61	14828	20584	784
	20+00	7446			7453	1402	17	58	14809	20545	745
	25+00	7442			7449	12	29	60	14822	20542	742
	30+00	7503			7510	21	41	48	14749	20518	718
19	0+00	7241			7248	1364	1671	2490	15002	20579	779
	5+00	7315			7322	74	83	80	14942	20581	781
	10+00	7414			7421	83	94	58	14809	20536	736
	15+00	7487			7494	93	1706	46	14737	20525	725
	20+00	7479			7486	1402	17	54	14785	20554	754
	25+00	7462			7469	12	29	52	14773	20513	713
	30+00	7522			7529	21	41	45	14731	20519	719

Line	Station	Field Read & Daily Drift	Overall Drift	Corrected Reading	Reading in Milligals	Miles North of Base	Latitude Correction	Elevation in Feet	CB & FA Correction	Gravity Value	Gravity Difference
20	0+00	7337	NONE	SAME AS Colm #4	7344	1364	1671	2447	14743	20416	616
	5+00	7377			7384	74	83	43	14719	20420	620
	10+00	7471			7478	83	93	33	14659	20444	644
	15+00	7541			7548	93	1706	25	14611	20453	653
	20+00	7519			7526	1402	17	26	14617	20426	626
	25+00	7499			7506	12	29	46	14737	20514	714
	30+00	7542			7549	21	41	30	14641	20449	649
21	0+00	7060			7067	1361	1667	2507	15105	20505	705
	9+00	6905			6912	57	62	34	15267	20517	717
	12+00	6827			6834	51	55	40	15304	20483	683
	15+00	6782			6787	47	50	49	15358	20495	695
	18+00	6791			6798	42	44	49	15358	20512	712
	21+00	6701			6708	38	39	62	15436	20505	705
	24+00	6655			6661	32	32	72	15496	20525	725
	27+00	6572			6578	28	27	80	15545	20496	696
	30+00	6459			6465	23	21	92	15617	20461	661
	33+00	6353			6359	19	16	2600	15665	20408	608
	36+00	6216			6222	13	08	2636	15882	20496	696
22	36+00	5656			5662	1309	1604	2691	16213	20271	471
	33+00	5528			5533	13	08	2736	16484	20409	609
	30+00	5777			5783	17	13	2696	16243	20413	613
	27+00	5834			5840	22	19	2696	16243	20464	664
	24+00	5809			5815	26	24	2703	16286	20477	677
	21+00	5813			5819	31	30	2704	16292	20481	681
	18+00	5679			5685	35	35	2723	16406	20456	656
	15+00	5624			5629	40	42	2725	16418	20405	605
	12+00	5649			5655	45	48	2727	16430	20437	637
	9+00	5949			5955	48	51	2674	16111	20415	615
	6+00	6459			6465	54	59	2621	15671	20477	677
	3+00	6836			6843	60	66	2531	15249	20426	626
	0+00	6930			6937	65	72	2438	15291	20555	755
23	0+00	5927			5933	1354	1659	2670	16087	20361	561
	3+00	5734			5740	49	53	2700	16268	20355	555
	6+00	5810			5816	45	48	2679	16149	20317	517
	9+00	5100			5105	40	42	2792	16822	20285	485
	12+00	4751			4756	35	35	2804	16894	20015	215
	15+00	4800			4805	30	29	2841	17117	20293	493
	18+00	4719			4724	26	24	2841	17117	20217	417
	21+00	4823			4828	21	18	2822	17063	20213	413
	24+00	4452			4456	16	13	2871	17298	20141	341
	27+00	4429			4433	11	06	2860	17232	20059	259
	30+00	4257			4261	07	01	2885	17382	20042	242
	33+00	4062			4066	1302	1595	2906	17509	19980	180
	36+00	3575			3578	1298	90	2964	17858	19846	046

Line	Station	Reading + Daily Drift	Overall Drift	Corrected Reading	Reading in Milligals .9760	Miles North of Base	Latitude Correction	Elevation in Feet	CB & FA Correction .06025	Gravity Value	Gravity Difference − 198.00
24	0+00	6620	None	Same as Col'm # 1	6626	13.60	16.66	2582	155.57	205.17	7.17
	3+00	6501			6507	56	61	2603	156.83	205.29	7.29
	6+00	6457			6463	50	54	2609	156.89	204.98	6.98
	9+00	5816			5822	46	49	2692	162.19	203.92	5.92
	12+00	5434			5439	41	43	2754	165.93	203.89	5.89
	15+00	5485			5490	35	35	751	165.75	204.30	6.30
	18+00	5229			5234	30	29	777	167.31	203.36	5.36
	21+00	5290			5295	26	24	768	166.77	203.48	5.48
	24+00	5273			5278	21	18	759	166.23	202.83	4.83
	27+00	5291			5296	16	12	759	166.23	203.07	5.07
	30+00	5215			5220	11	06	769	166.83	202.97	4.97
	33+00	4979			4984	08	02	797	168.52	202.34	4.34
	36+00	4675			4680	03	1.596	842	171.23	202.07	4.07
											−200.00
25	0+00	10125			9882	7.42	−9.09	1905	114.77	204.50	4.50
	3+00	10244			9998	47	−15	1889	113.81	204.64	4.64
	6+00	9837			9699	53	−22	1933	116.46	204.23	4.23
	9+00	9992			9752	59	−30	1921	115.74	203.96	3.96
	12+00	9771			9536	64	−36	1937	116.70	202.70	2.70
	15+00	9452			9225	70	−43	1980	119.30	202.12	2.12
	18+00	9625			9394	76	−51	1963	118.27	202.69	2.69
	21+00	9782			9547	81	−57	1950	117.49	203.39	3.39
	24+00	9666			9434	87	−64	1960	118.09	202.79	2.79
	27+00	9565			9335	93	−71	1977	119.11	202.75	2.75
	30+00	9524			9295	98	−76	1983	119.48	202.67	2.67
26	0+00	9493			9265	98	−9.76	1983	119.48	202.37	2.37
	3+00	9671			9439	93	−71	1951	117.55	202.23	2.23
	6+00	9557			9328	87	−64	1968	118.57	202.21	2.21
	9+00	9557			9328	81	−57	1966	118.45	202.16	2.16
	12+00	9201			8980	76	−51	1995	120.20	200.49	0.49
	15+00	9518			9290	70	−43	1942	117.01	200.48	0.48
	18+00	9666			9434	64	−36	1925	115.98	200.96	0.96
	21+00	9719			9486	59	−30	1924	115.92	201.48	1.48
	24+00	10018			9778	53	−22	1894	114.11	202.67	2.67
	27+00	9906			9670	47	−15	1910	115.08	202.63	2.63
	30+00	9904			9666	42	−09	1921	115.74	203.31	3.31

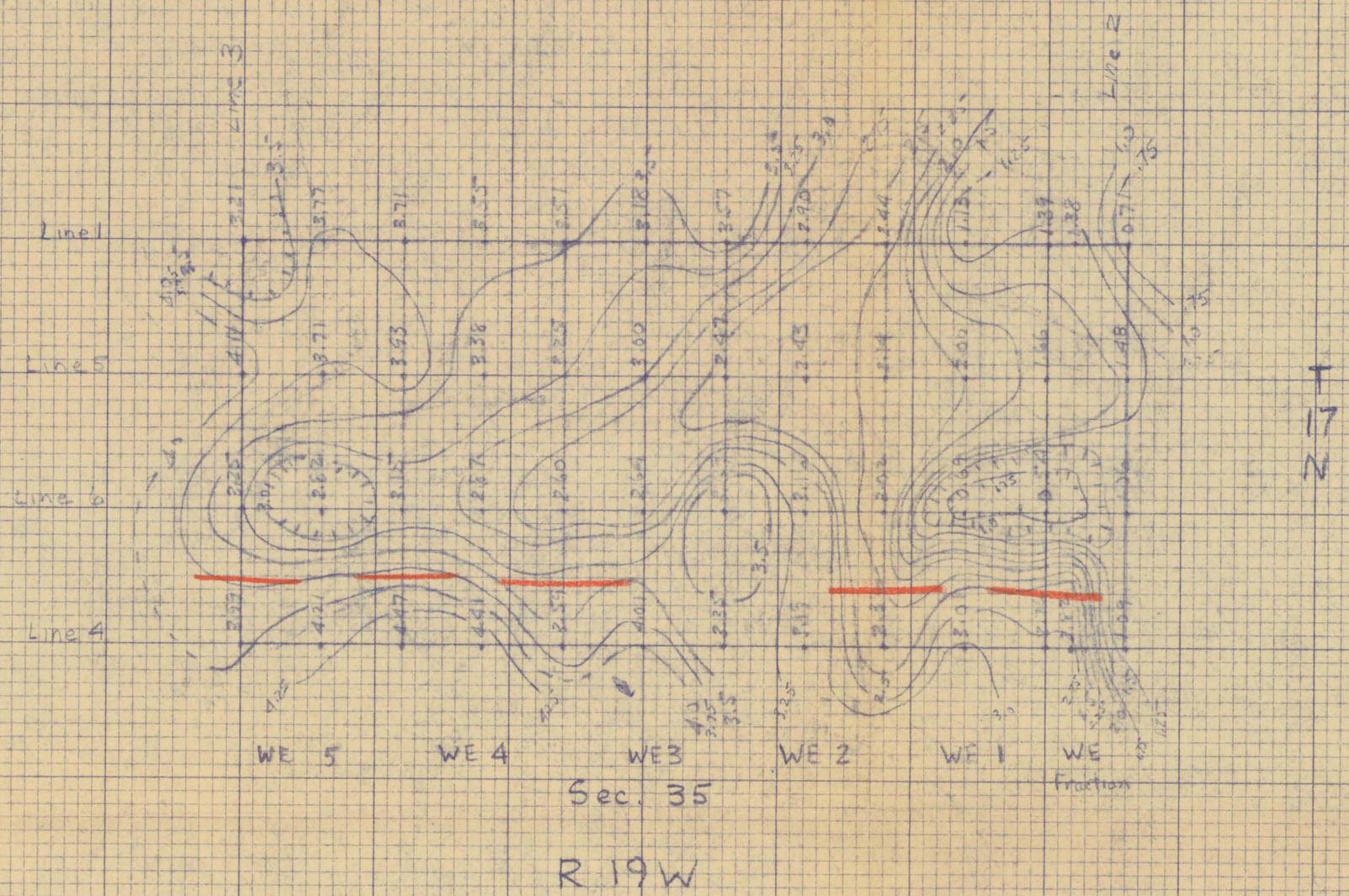
Line	Station	Reading + Daily Drift	Overall Drift	Corrected Reading	Reading in Milligals .9760	Miles North of Base	Latitude Corrections	Elevation in Feet	CB & FA Corrections	Gravity Value	Gravity Difference -200.00
27	0+00	9798	NONE	Same as Col 1	9563	742	+ 909	1927	11610	20264	264
	3+00	9809			9574	47	+ 15	1920	11568	20227	227
	6+00	9689			9452	53	+ 22	1928	11616	20146	146
	9+00	9669			9437	59	+ 30	1917	11550	20057	057
	12+00	9603			9373	64	+ 36	1931	11634	20071	071
	15+00	9297			9074	70	+ 43	1972	11881	20012	012
	18+00	9266			9044	76	+ 51	1987	11972	20065	065
	21+00	8896			8682	81	+ 57	2039	12285	20010	010
	24+00	8716			8507	87	+ 64	2079	12526	20069	069
	27+00	8767			8557	93	+ 71	2083	12550	20136	136
	30+00	8909			8695	98	+ 76	2063	12430	20149	149
28	0+00	8430			8228	98	+ 976	2131	12839	20091	091
	3+00	8312			8113	93	+ 71	2145	12923	20065	065
	6+00	8740			8530	87	+ 64	2076	12508	20074	074
	9+00	8169			8949	81	+ 57	2019	12164	20156	156
	12+00	9454			9227	76	+ 51	1972	11881	20157	157
	15+00	9481			9253	70	+ 43	1961	11815	20125	125
	18+00	9415			9189	64	+ 36	1982	11942	20195	195
	21+00	9282			9059	59	+ 30	1989	11984	20113	113
	24+00	9376			9151	53	+ 22	1983	11948	20177	177
	27+00	9488			9260	47	+ 15	1969	11863	20208	208
	30+00	9596			9366	42	+ 09	1962	11821	20278	278
29	0+00	9513			9285	42	+ 909	1970	11869	20245	245
	3+00	9361			9136	47	+ 15	1982	11942	20163	163
	6+00	9219			9998	53	+ 22	2000	12050	20126	126
	9+00	9117			8898	59	+ 30	2014	12134	20102	102
	12+00	9078			8860	64	+ 36	2017	12152	20076	076
	15+00	9148			8928	70	+ 43	2008	12098	20083	083
	18+00	9288			9065	76	+ 51	1996	12026	20140	140
	21+00	9313			9089	81	+ 57	1998	12038	20170	170
	24+00	9404			9178	87	+ 64	1989	11984	20198	198
	27+00	9171			8951	93	+ 71	2030	12231	20211	211
	30+00	8542			8337	98	+ 76	2125	12803	20164	164

45-568 5118

Line	Station	Reading + Daily Drift	Overall Drift	Corrected Reading	Reading in Milligals .9760	Miles North of Base	Latitude Corrections 1.225	Elevation in Feet	CB & FA Corrections .06025	Gravity Value	Gravity Difference -200.00
30	0+00	92.28	NONE	Same as Col 1	90.07	7.98	-9.76	20.32	122.43	202.94	2.94
	3+00	91.42			89.23	93	-71	20.44	123.15	202.67	2.67
	6+00	90.73			88.55	87	-64	20.46	123.27	202.18	2.18
	9+00	89.94			87.78	81	-57	20.56	123.87	202.08	2.08
	12+00	91.10			88.91	76	-51	20.34	122.55	201.95	1.95
	15+00	88.94			86.82	70	-43	20.51	123.57	200.96	0.96
	18+00	88.59			86.47	64	-36	20.59	124.05	201.16	1.16
	21+00	90.23			88.07	59	-30	20.32	122.43	201.20	1.20
	24+00	91.43			89.25	53	-22	20.36	122.67	202.70	2.70
	27+00	92.69			90.48	47	-15	20.00	120.50	201.83	1.83
	30+00	93.96			91.71	42	-09	19.90	119.90	202.52	2.52
31	0+00	97.11			94.79	42	-9.09	19.35	116.58	202.28	2.28
	3+00	95.36			93.08	47	-15	19.64	118.33	202.26	2.26
	6+00	91.19			89.01	53	-22	20.21	121.77	201.56	1.56
	9+00	88.50			86.39	59	-30	20.54	123.75	200.84	0.84
	12+00	86.28			84.22	64	-36	20.86	125.68	200.54	0.54
	15+00	82.73			80.75	70	-43	21.44	129.18	200.50	0.50
	18+00	88.04			86.03	76	-51	20.74	124.96	201.48	1.48
	21+00	88.51			86.49	81	-57	20.69	124.66	201.58	1.58
	24+00	88.47			86.45	87	-64	20.81	125.38	202.19	2.19
	27+00	90.65			88.57	93	-71	20.48	123.39	202.25	2.25
	30+00	90.06			88.00	98	-76	20.60	124.12	202.36	2.36

Line	Station	Reading + Daily Drift	Overall Drift	Corrected Reading	Reading in Milligals	Miles North of Base	Latitude Corrections	Elevation in Feet	CB & FA Corrections	Gravity Value	Gravity Difference
					.0750		1.255		.06025		— 200.00
30	0+00	9258	NONE	Same as Col 1	9907	948	+ 976	2083	11224.3	2094	2.4
	3+00	9162			9923	98	+ 71	2044	11231.5	2095.7	2.7
	6+00	9073			9955	97	+ 64	2044	11237.7	2095.8	2.8
	9+00	8984			9978	81	+ 57	2056	11238.7	2096.8	2.8
	12+00	9110			9991	76	+ 51	2054	11255.5	2101.5	1.5
	15+00	9204			9952	70	+ 43	2051	11257.7	2099.6	0.6
	18+00	9259			9947	64	+ 36	2053	11240.5	2101.1	1.1
	21+00	9323			9927	54	+ 30	2052	11243.7	2101.0	1.0
	24+00	9143			9925	53	+ 22	2056	11255.7	2099.0	2.0
	27+00	9249			9948	47	+ 15	2000	11250.5	2101.3	1.3
	30+00	9296			9971	45	+ 09	1990	11240	2102.2	2.2
31	0+00	9311			9974	42	+ 909	1987	11258	2099.8	2.8
	3+00	9325			9908	47	+ 15	1984	11233	2099.6	2.6
	6+00	9114			9901	53	+ 22	2021	11227	2101.6	1.6
	9+00	9250			9939	59	+ 30	2054	11235	2106.4	0.4
	12+00	9258			9922	64	+ 36	2053	11268	2105.4	0.4
	15+00	9273			9925	70	+ 43	2044	11218	2105.0	0.0
	18+00	9294			9903	76	+ 51	2074	11246	2101.8	1.8
	21+00	9251			9949	81	+ 57	2064	11255	2101.8	1.8
	24+00	9247			9945	87	+ 64	2061	11238	2105.9	0.9
	27+00	9256			9927	93	+ 71	2058	11284	2105.7	0.7
	30+00	9206			9900	98	+ 76	2060	11241.2	2095.6	0.6

Corrected Gravity



WESTEND CLAIMS
Gravity Survey
Scale 1" = 500'
Contour Int. .5 milligals

For

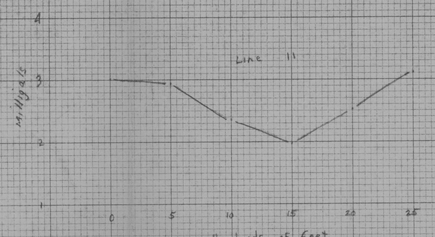
ARKLA EXPLORATION CO.
MOHAVE CO., ARIZ.

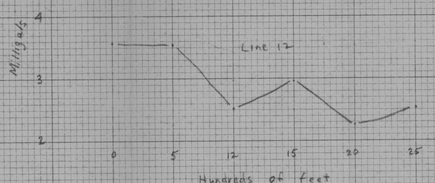
N

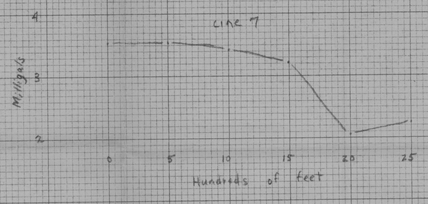
Note:
distance appx
elevations by
altimeter
data by R.P.

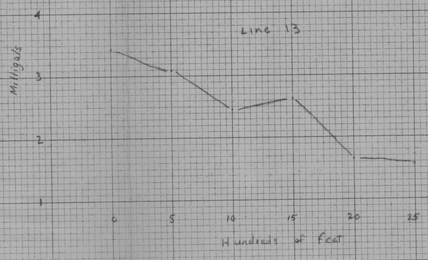
HEINRICHS
GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA

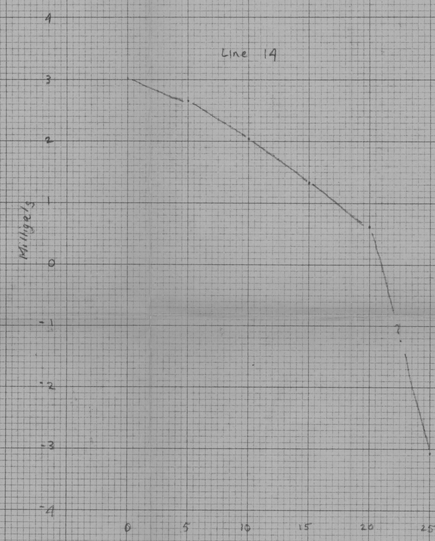
Probable Fault
or Contact.











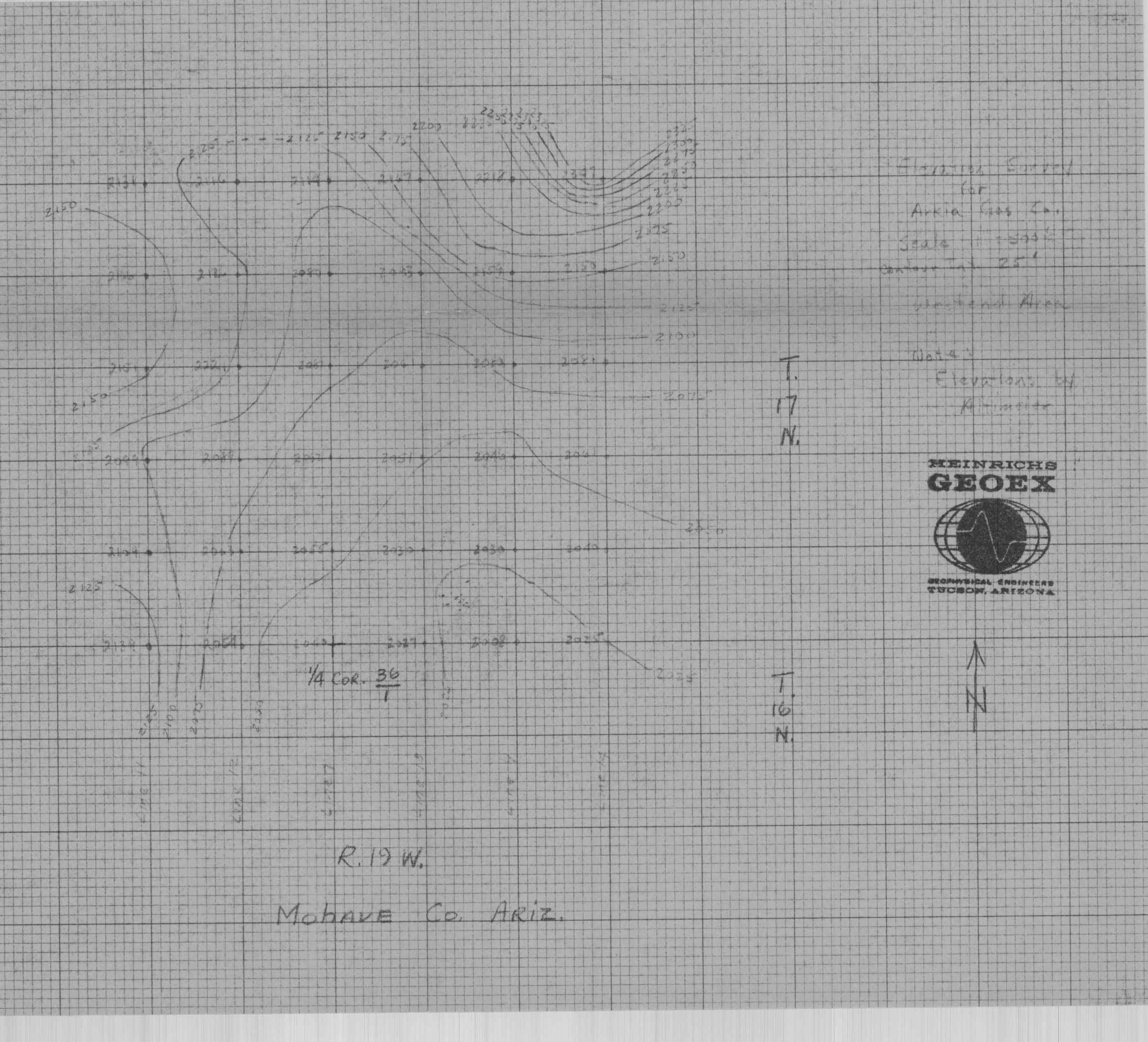
All profiles looking west
H Scale 1" = 500'
V " 1" = 1 mgl.

→ Z

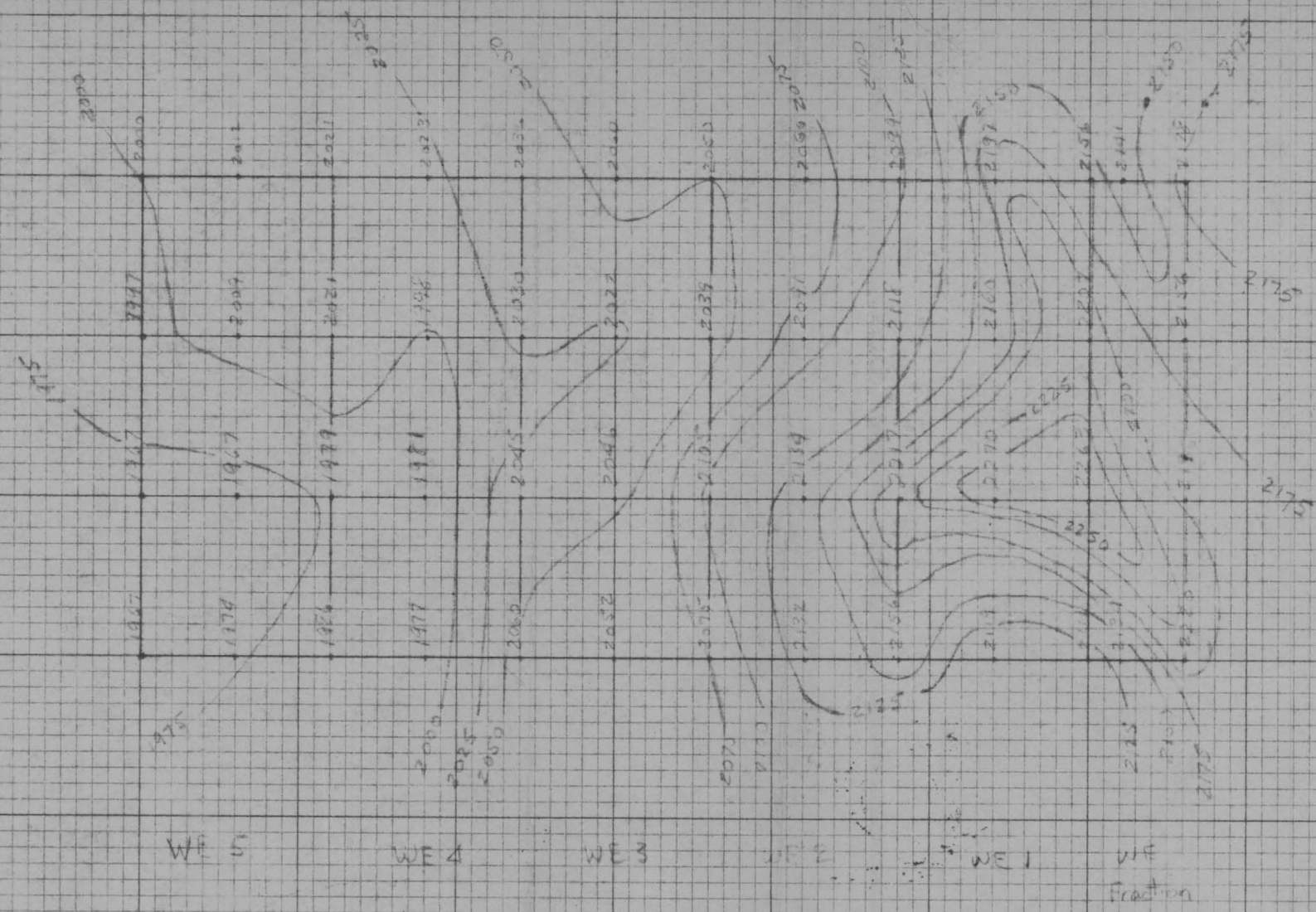
MOHAVE CO., ARIZONA
WEST END AREA
GRAVITY Profiles
FOR
AREA Exploration Co.
Dec. 1964

HEINRICHS GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA

K&E STANDARD ® CROSS SECTION
KEUFFEL & ESSER CO. MADE IN U.S.A.



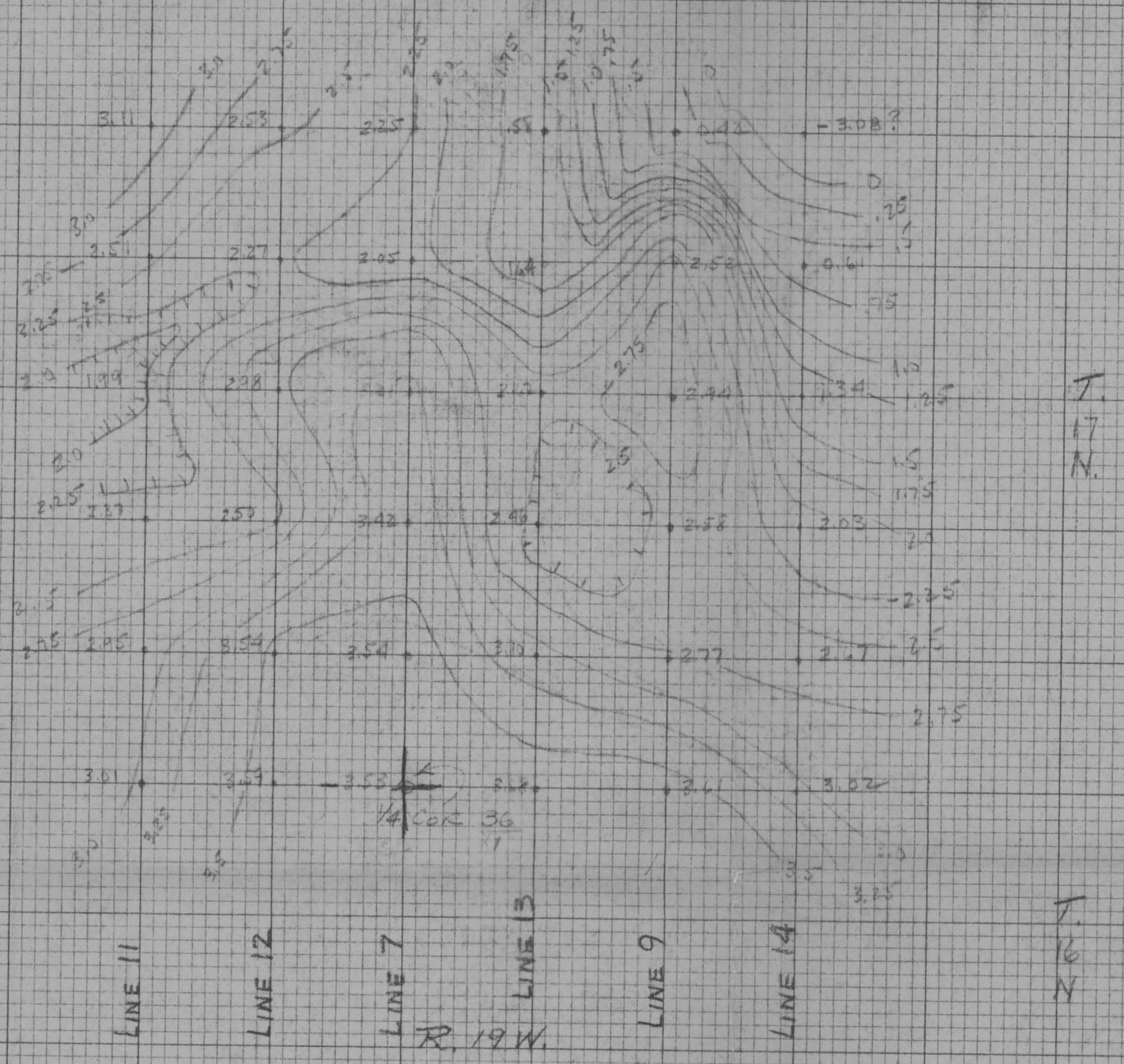
Elevation Survey
for
Arkia Gas Co.
Scale 1" = 500'
Contour Int. 25'
Westend Area
Note:
Elevations by
Altimeter
HEINRICHS
GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA
T. 17 N.
T. 16 N.
1/4 COR. 36/1
R. 19 W.
Mohave Co. Ariz.
N



Elevation Survey
for
ARKLA EXPLORATION CO.
Scale 1" = 500'
Contour Int. 25'
Western Claims
MOHAVE CO., ARIZ.
DEC. 1964

Note:
Elevations by
Altimeter

HEINRICHS
GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA



Gravity Survey
for
ARKLA EXPLORATION Co.
Dec. 1964
Scale 1" = 500'
Contour Int .25 Milligals
West end Area
MOHAVE Co., ARIZ.
Note:
distance approx
elevations by
altimeters
data by [illegible]

HEINRICHS
GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA

K+E STANDARD ® CROSS SECTION 10X10 TO THE INCH
EUFFEL & ESSER CO. MADE IN U.S.A.