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Memorandum from . . .

HOWARD LANIER

Grover

File

March 31, 1972

To. P. I. Eimon,
From: H. David Mac Lean

Subject: Review of Geophysical Data in the vicinity of the Milford Mine, Milford, Utah.

The Milford Utah prospect being operated by ESSED INTERNATIONAL was visited March 22 - 24, 1972 for the purpose of reviewing the geophysical data existing in the company files.. Much of the data has accumulated over several years by different operators; the data was in various states of completeness, generally lacked field notes and detailed technical descriptions of the methods employed and contained discrepancies in the various tie points used.. The purpose of this review then, was to collect the data into a useable form, to make recommendations by which various short commings could be improved, and to point out the type of information which these and similar geophysical surveys could contribute to an overall understanding of the geology of the area.

The Milford prospect,- regional location shown in Fig. 1. is shown in detail on the Milford Quadrangle 7½ minute sheet which is bound herewith as figure 1A. The various points concerning access, topography and similar matters, are either self evident, or well known to Essex personnel who are working in the area.

Economic mineralization in the Milford area could occur in a variety of forms but the one of immediate interest to this discussion is copper mineralization in the oxide form which occurs in skarn zones. The following comments will concentrate on those geophysical exploration methods which are applicable to the detection of this type of mineralization. Only brief mention will be made of the possibility of disseminated sulfide mineralization existing at reasonalble depths in the prospect area.Exploration for this type of deposit would require a different emphasis from that employed by most of the surveys, and so will be dealt with at a later time.'

The detailed map of the prospect which is bound herewith as Figure 5 shows a number of the ore bodies in the area which are being mined, developed, or have been mined out in recent times. Most, or all of these orebodies, with the exception of the O.K. prospect, are in the form of narrow,- forty feet wide,- and short,- twelve hundred feet in strike length,- skarn zones. Many of these zones contain magnetite, and quite prominent magnetic anomalies are associated with the Bawana, Candy B, Hidden Treasure, and other mineralized zones which may or may not meet the definition of orebody. Naturally, a first stage in exploration involved the use of a ground magnetic survey, and this work resulted in the discovery of a number of skarn type orebodies. Complete records of this ground magnetic survey are not available, and there is some doubt as to the thoroughness of the survey. Further,

subtle anomalies may not have been tested, and of course skarn zones which do not contain magnetite would remain undetected by this method.

Recently, some IP - Resistivity surveying was completed in the Milford prospect area. The total lack of sulfides, or other metallic mineral other than magnetite within the upper four hundred feet of these narrow skarn zones indicates that the IP methods would be almost useless, Electrode spreads which could detect mineralization at depth, could not respond to the narrow widths, and those which were designed for optimum coupling with the narrow zones, could not have sufficient depth penetration. However, the resistivity data which is obtained concommitently is important in that it shows the known skarn zones to be resistivity lows, or electrical conductors. It might be possible to trace these zones by E.M. or even resistivity methods, thus suggesting a tool to be used for the detection of those zones which do not contain magnetite.No records of any E.M. work having been done exist in the files. some work of this nature should be attempted in the near future tottest its applicability.

Data examined.

magnetics.

A fairly extensive ground magnetic survey was conducted over the area of known skarn zones in sections 22, 21, 15 & 16. Unfortunately, the only record of this survey in the Essex files is a contour map which has been photo reduced to a scale of 1"=2,000' Though the strongly magnetic near surface skarns are quite obvious on this map, there may be more subtle features which are not immediately- apparent. These features could be detected only on a more detailed map, such as that which was prepared from the original field notes.; some attempt should be made to locate this more detailed map.

It is quite possible,that these efforts will be fruitless, in that such a map may never have been prepared.The survey could have been run on a reconnaisance =- detail basis, in which case fragmentary detailed surveys like the one at the Bawana mine were collected onto a single map sheet. If these detailed magnetics cannot be located consideration should be given to re-running the magnetic survey. The cost would be small in relation to the possibility of missing another skarn type orebody.

IP - resistivity

At some stage of the exploration of this property, which was probably later than the execution of the magnetic survey, a detailed grid as shown in Figure 2 was laid out to accomodate the needs of various geophysical surveys and other exploration requirements. Parts of this grid in the extreme northwest portion of the property can still be reoccupied, but most of the stakes in the area of interest,- section 22,- have either been destroyed, or their notations have been obliterated. A prerequisite renewed exploration, or follow up to the previous surveys, would be the re-establishment of this grid. This is the only means by which geophysical readings can be related to the ground, and errors would be quite serious when the narrow, short length features such as these skarn zones are considered.

Selected lines of this grid were surveyed by the IP-REsistivity method. The work was done by McPhar Geophysics, and a complete report is available to Essex. As is mentioned above, the IP work would appear to be inappropriate for purposes of skarn exploration; All sulfides have been oxidized to a depth of four hundred feet or more, and spreads which could detect mineralization at these depths could not respond to the narrow widths. The resistivity data is usefull though in that it establishes that the skarn zones are electrically anomalous.

gravity

A regional gravity survey is also available. Unfortunately the work is of no value for purposes of direct exploration in that the station density is not sufficient to present detailed information. The work may be of benefit if exploration were to be carried out on a district wide basis. The possible applications can be dealt with separately, but need not be considered here.

Discussion of the Data.

Magnetic Surveys:

Provision is made in this report to include copies of the ground and airborne magnetic surveys, even though these maps are not included as this is written. The pocket for fig. 3 should contain the ground magnetics, blown up toa scale of 1" = 1,000 feet. Pocket 3 should contain a copy of the five hundred foot constant ground clearance aeromagnetic survey at a similar scale. The ground magnetics in the Maria, - Bawana areas,- see figure 5 for the detailed locations,- shows strong anomalies from narrow, dyke like sources which corelate with most of the known ore deposits. The anomalies associated with the copper RAnch deposit, and that known as the section 26 anomaly, are from sources which are several hundreds of feet in width, and are probaly related to magnetite bearing intrusive rocks, and not skarn zones. The granodiorite which outcrops near the Copper Ranch prospect is strongly magnetic, and could certainly account for the large anomaly at this location. Unfortunately, magnetic data which is sufficiently detailed to permit an analysis of individual anomalies is fragmentary, and this work cannot be done on a property wide basis.

The aeromagnetic survey, - available at Milford but not included herewith,- is of limited use for the direct detection of the narrow, short strike length skarn zones.. Considerations such as the sampling interval, the vertical attenuation of magnetic intensity, and the flight line spacing tend to minimize responses from the skarn sources, and emphasize those from larger sources such as geological units.. Any anomalies of interest on this map should be investigated by a ground survey.

IP- Resistivity.

The IP - Resistivity can be used to a certain degree for purposes of exploration. Some evidence of minor,- one or two percent,- mineralization can be seen in the extreme north west

portion of the grid. Figures 27 NW (IP) and 27NW (R) (Resistivity) show at least one sulfide zone, and there may be other zones on unprofiled portions of this line. The zone near the base line corelates with the position of the OK mine and probably responds to ore at this locality. Similarly, two ore zones have been identified on Fig. 0,0 NW. These zone corelate with magnetica anomalies and with zones of visible mineralization. These and other mineralized zones have been identified on Fig. 5 and may be worthy of at lteast some geological investigations. In all cases the mineralization would be weak, and probably would not exceed two percent of sulfide material.

The principal benefit to be derived from the IP survey, particularly in the area of immediate interest around Sect. 22., is an observation of the behavior of the resistivity profile when a known skarn zone has been traversed. Fig. 126(R) shows a resistivity low at the projected intersection of the montreal mine skarn zone. Fig. 114(R) shows resistivitylows, at 0,0,-7NE,-18NE & 26 NE. The anomaly at 0,0 marks the projection of the Bawana mine fracture zone; the deeper source at 7 NE is on strike of the Bawana ore zone; The anomaly at 18 NE matches the projection of the Niagara Falls mine, and that at 26NE marks another known skarn zone.

Fig. 96 SE (R) shows a resistivity anomaly at 0, which is on the projection of the Maria and Hidden Treasure ore zones. The second low at 8 NE is of particular importance. It corelates with no known orebodies and may represent an untested target. The anomaly should be tested by magnetics, and if results are favourable, my be worth a drill test.

Despite the favourable response of the skarn zones to resistivity methods, these would not be the most economic means of delineating the conductive skarns. EM methods would probably be just as effective, or even more so, and would certainly be much cheaper to operate. Initial test work to confirm the response of these skarn zones to EM methods could be run using a VLF EM unit, followed by vertical loop or other methods, excluding Slingram. Once the method has been demonstrated, the entire grid in the area of shallow skarns,i.e less than three hundred feet of overburden,- should be surveyed by the Turam or vertical loop E. M. methods.

Summary of REcommendations and Conclusions:

Many of the known skarn zones contain magnetite, and can be detected by ground magnetic surveys. Unfortunately existing work is either incomplete,- Maria Bawana areas,- or has been contoured unsatisfactorily,-Intermountain area,-, and the original survey data will be required before the existing work can be used for exploration purposes.. Generally, the ore zones are too short and too narrow to be detected by even low level aeromagnetic surveys, and this method is mainly usefull for the identification of magnetic anomalies caused by particular rock units.. In the event that the detailed ground magnetic survey cannot be located it is recommended that the portion of the grid shown in Fig. 2 which is in geologically a favourable location be re-established and that the magnetic survey be repeated.

Whether or not the magnetic survey is repeated, the grid shown in Fig. 2 should be reposted, and the stakes reset. This grid is the only reference for most of the geophysical work and any follow up should be done from fixed points. Once the grid is available, the location of anomalies relative thereto can be checked readily by some simple test surveys.

Several lines should be run using the VLF EM system. Lines 135 SE through 111 SE using the Jim Creek transmitter should be adequate to demonstrate the efficacy of EM methods. Once this has been demonstrated, some follow up work using the vertical loop or Turam methods should be run. Slingram would generally be too depth restrictive to be usefull. Provided that the results of this follow up work are favourable the entire grid as outlined in fig. 5 should be surveyed by the EM method.

The grid layout, ground magnetics and EM surveys could be accomplished by a qualified geophysical technician and helper in about three months including data reduction and presentation. This would constitute a reasonable summer field project, and it is recommended that Essex obtain two such employees on a summer field season basis.

Costs of the program would consist of salaries for these men, their living expenses, and the following equipment costs:

3 CB or FM radios... (from MGS, Elliot, or other sources)	3 mos @ $100	$ 300
1 surveyor's transit	1 mo @ $200	$ 200
1 Askania magnetometer	1½ mos. @ 300	$ 450
1 VLF EM unit from Crone, Geonics or Scintrex)	½ mo @ 300	$ 150
1 VErtical Loop E. M unit or	1 mo @ $ 300	$ 300
1 ABEM or Scintrex Turam unit,	1mo. @ $550	$ 550

The ground EM and magnetic surveys are directly applicable to exploration in the area, and should be undertaken as soon as possible.

The resistivity anomaly on line 96 SE at 8NE mightbe checked immediately. Provided its location and magnetic expression can be confirmed, a drill hole at 9 NE bearing 225° and dipping at -50° and about 300 feet in length should be adequate to test this anomaly

REspectfully submitted,

H. David Mac Lean, P. Geoph.

H D MacLean

References:

Ground Magnetics, Contour maps only, one of which was photo reduced to 1" = 2,000 ' No technical data. Magnetic map for Intermountain area appears to be contoured incorrectly.

Gravity: Buttgereit, C.D.1" A Quantitative method of least squares Residual Potential Field Determination" University of Utah Thesis, Essex Files,

IP - Resistivity

Fountain, D. K.; Mc Phar Geophysics; "Memorandum on the IP - Resistivity Survey for the Milford Project, Beaver County, Utah, for Norandex, April 1970

Summary of figures accompanying this discussion:

Fig. 1.	Location Map	Page	7
Fig. 1A	Detailed location map	Pocket	1
Fig. 2	Grid location map	Pocket	2
Fig 3	Ground magnetic maps (not included)	Pocket	3
Fig. 4	Airmagnetic map (500 ft. terrain clearance)	Pkt	4
Fig. 5	Detailed location map showing a compilation of magnetic and resistivity anomalies, and known skarn zones and ore bodies.	Pkt.	5.

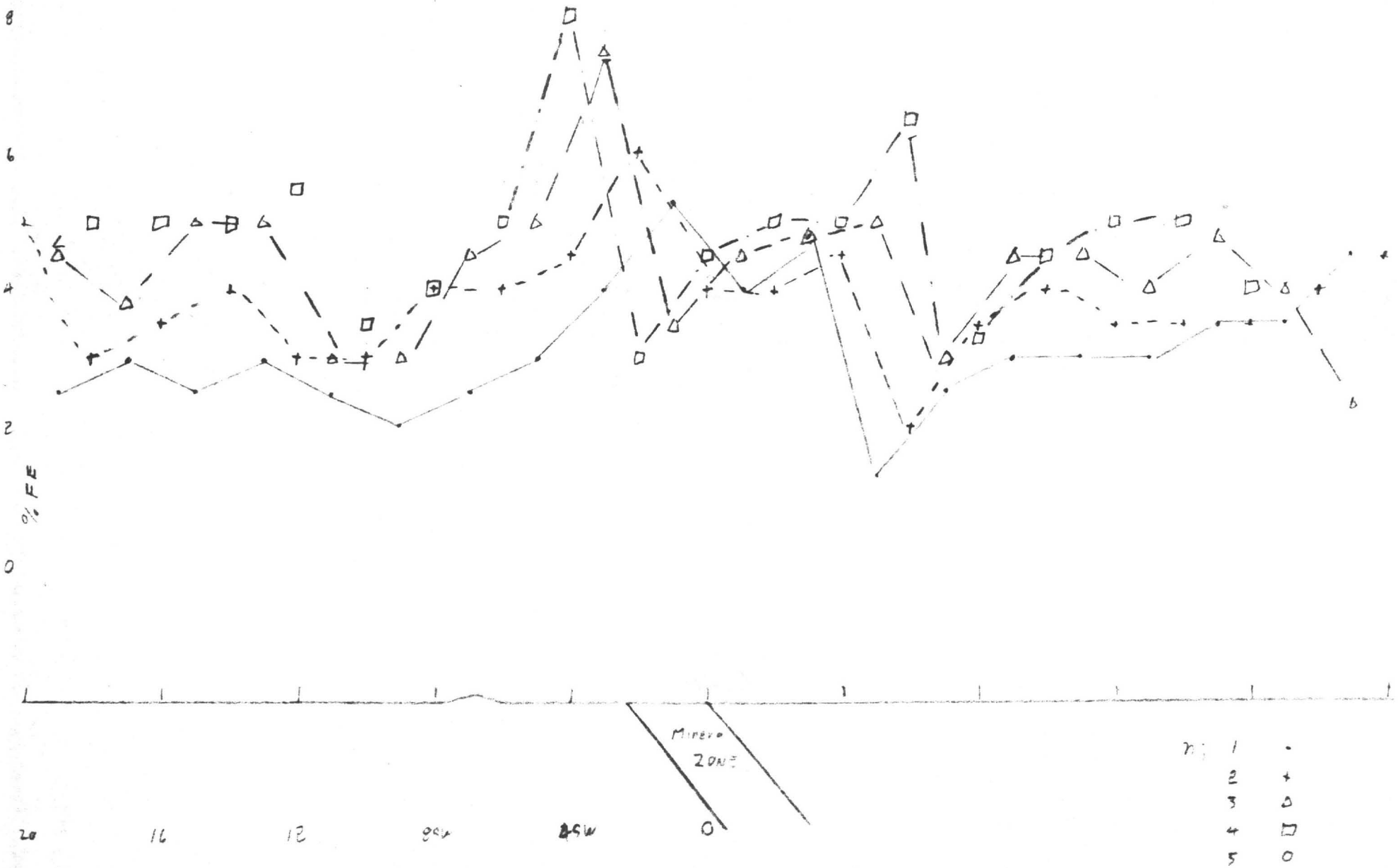
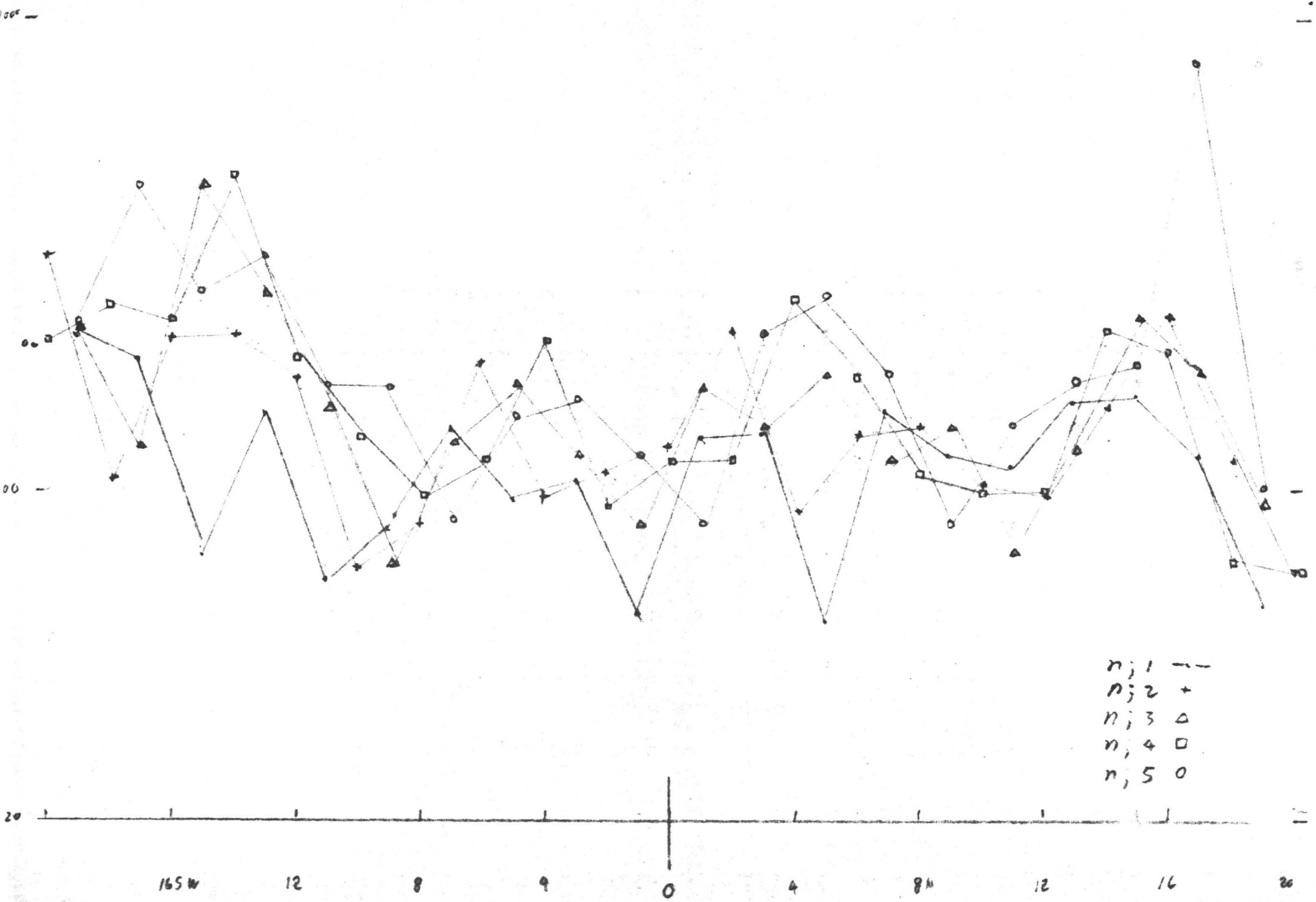


Fig. 27 NW


n; 1
n; 2
n; 3
n; 4
n; 5
165 W
12
8
4
0
4
8 W
12
16
20

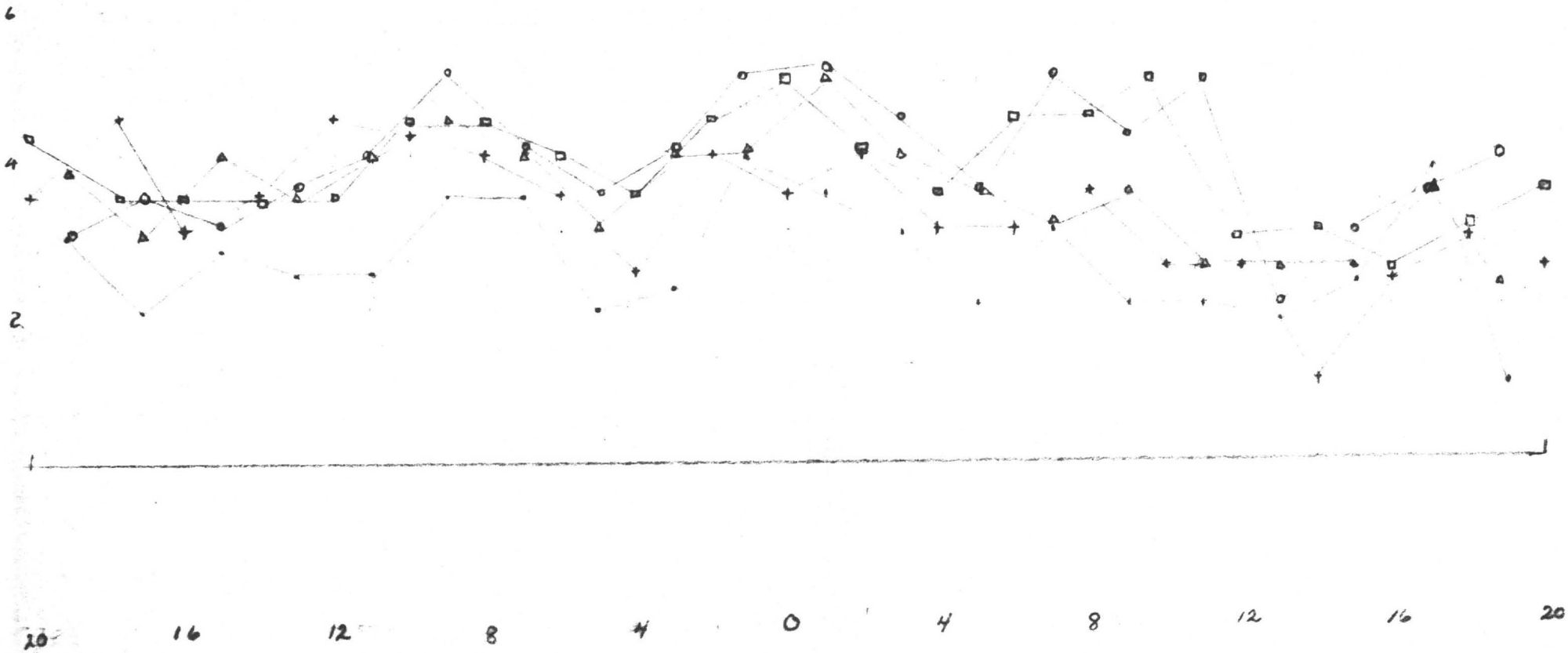
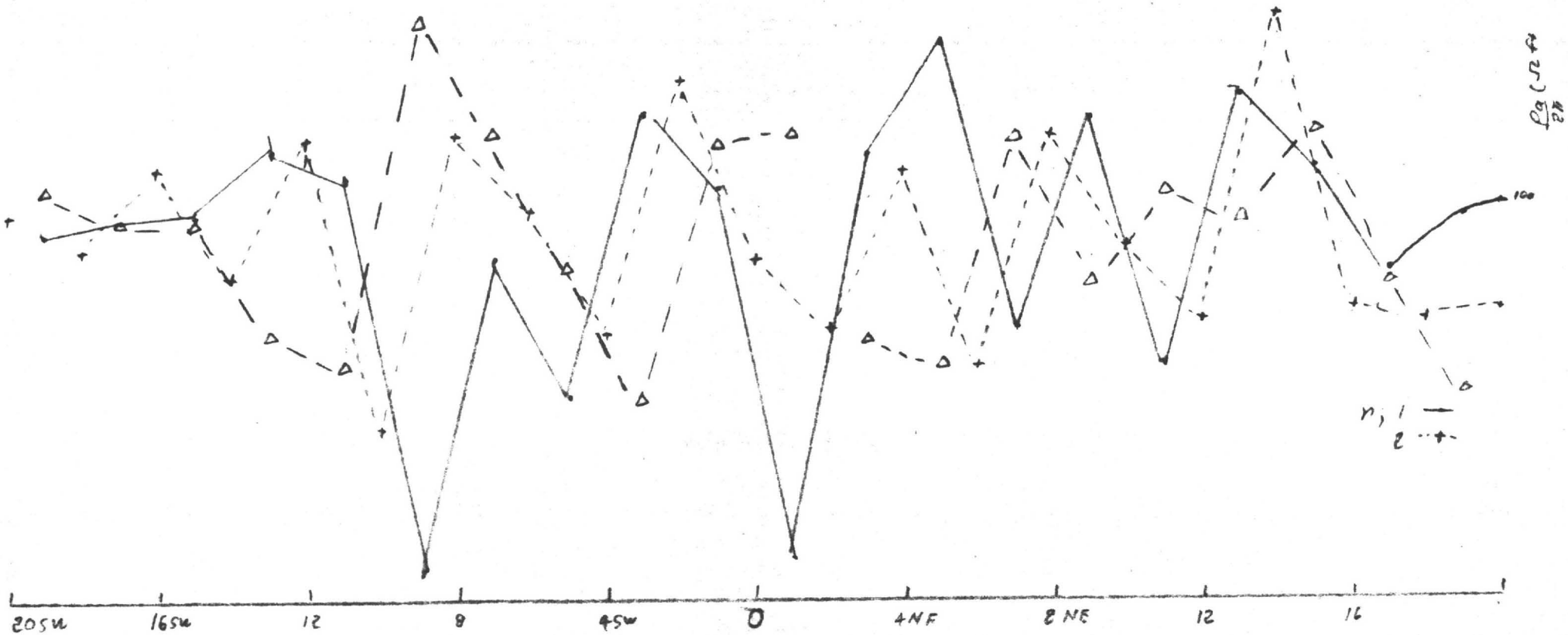


Fig 00 NW



NOTE $\frac{2a}{2\pi}(\Omega\text{-ft}) \times 1.91 = \Omega$ METERS

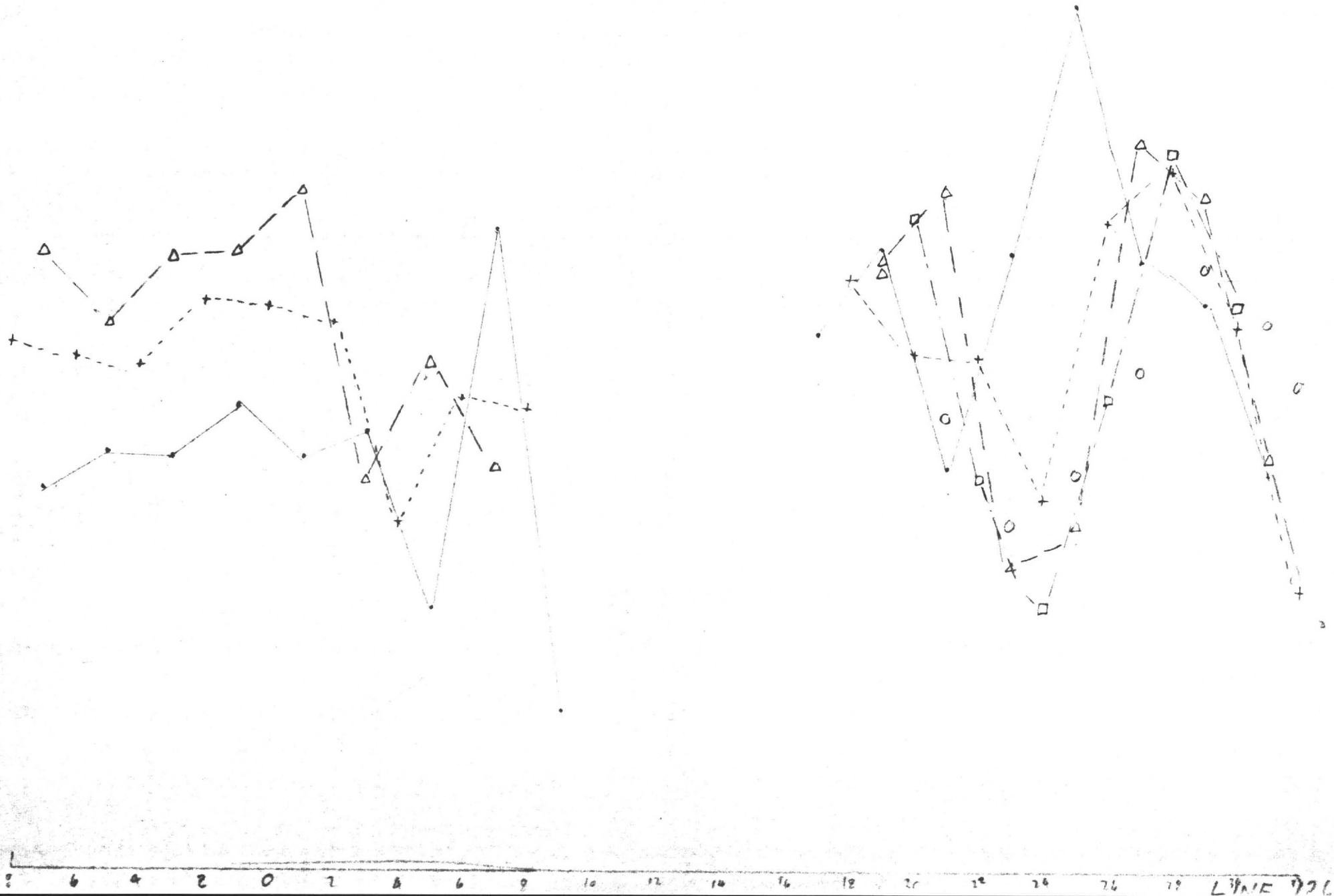
2a = 400' = 1"

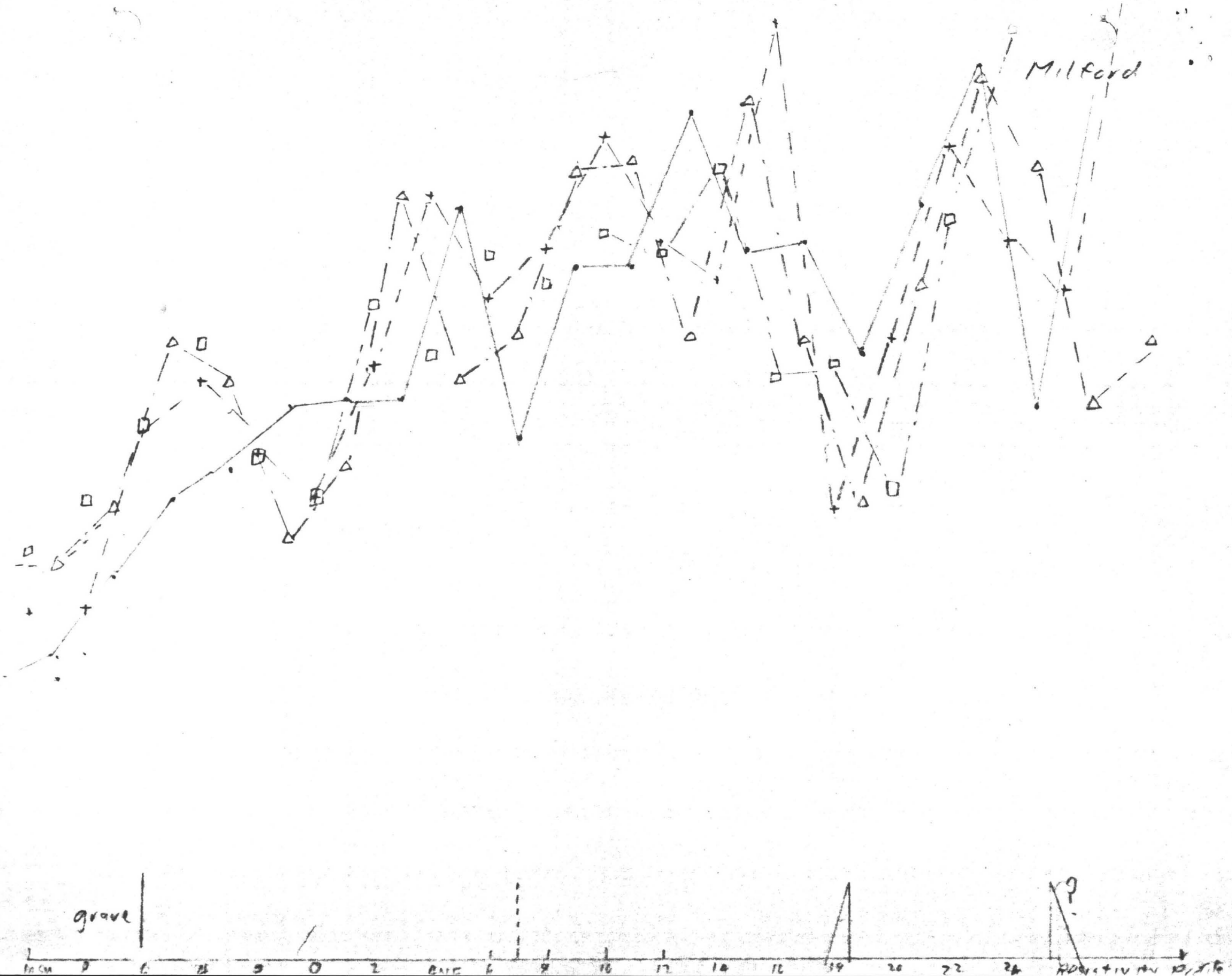
NOTE RESISTIVITY DATA NOT GOOD QUALITY

No Significant Anomalies

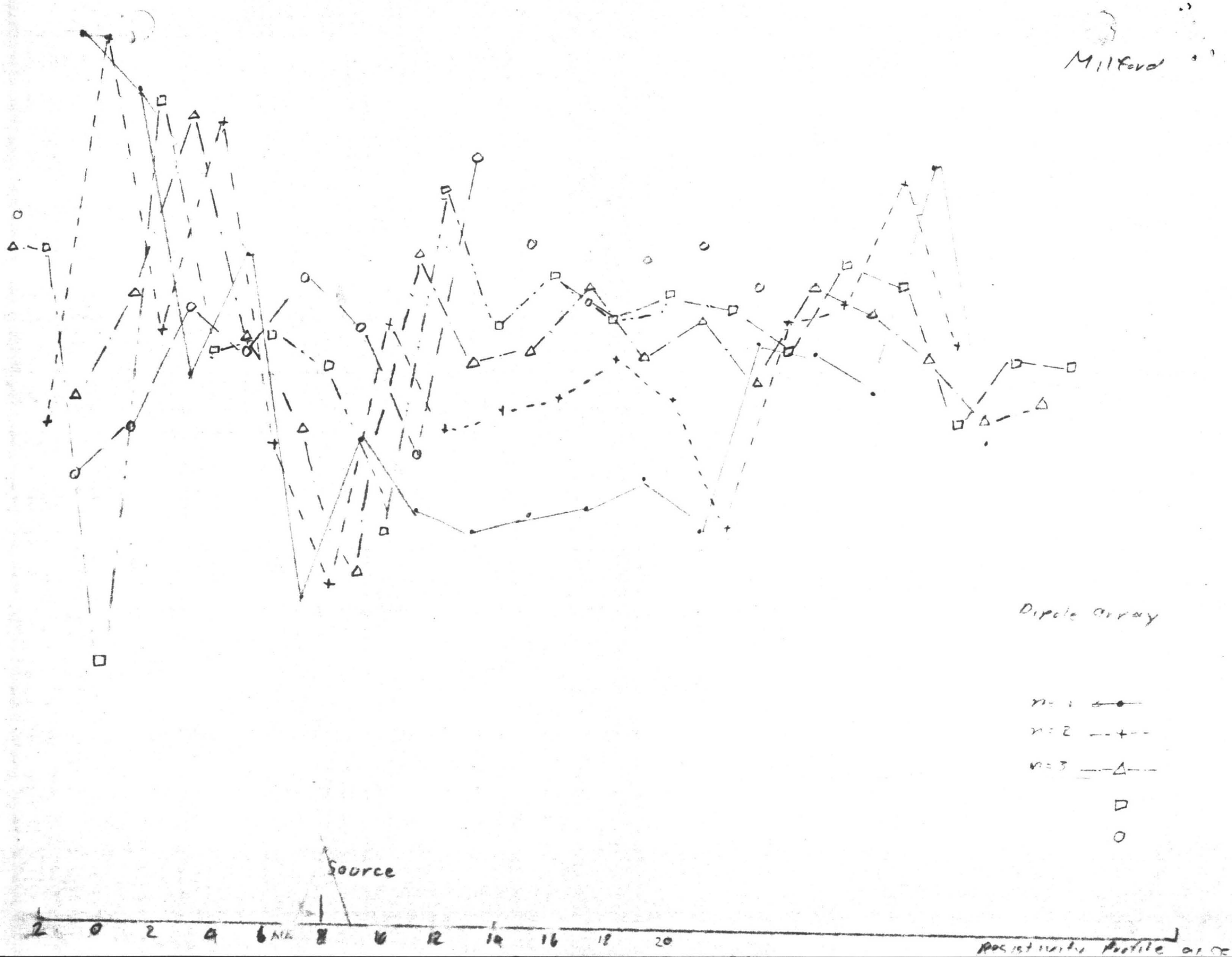
Fig ONW(A)

Resistivity Profiles
Milford Area




Milford
grave
?

Milford


Dipole array
n = 1
n = 2
n = 3
Source
2 0 2 4 6 8 10 12 14 16 18 20
Resistivity Profile

3226 East 46th Street

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SAMPLE MARKED	GOLD OZ / TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Maria Drill Comp. Ro Tail			0.26					
			0.26					

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APR 2 - 1973

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unrise Drill II Ro Tails	.0070	0.59	0.90					
Ro Tails			0.89					
# 1 Ro Conc.	.120	16.80	28.26					
# 1 Ro Conc.	.140	17.00	28.26					
# 2 Ro Conc.	.040	3.60	6.37					
# 2 Ro Conc.	.040	3.60	6.32					
# 3 Ro Conc.	.020	3.00	3.18					
# 3 Ro Conc.	.020	3.00	3.22					

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Eden Treasure Ro Tails	.0024	0.29	0.47				
Ro Tails			0.48				
Heads	.0070	0.89	1.91				
Heads			1.93				
# 1 Ro Conc.	.300	18.00	29.24				
# 1 Ro Conc.	.300	16.80	29.05				
# 2 Ro Conc.	.040	3.40	5.52				
# 2 Ro Conc.	.060	3.60	5.58				
# 3 Ro Conc.	.020	1.80	2.39				
# 3 Ro Conc.	.040	1.80	2.43				

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SAMPLE MARKED	GOLD OZ / TON	SILVER OZ / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Bowana Klan Comp. Ro Tails	.0013	0.10	0.05					
Ro Tails			0.05					
Heads	.0046	0.44	0.67					
Heads			0.67					
# 1 Ro Conc.	.060	16.60	22.97					
# 1 Ro Conc.	.080	16.20	23.02					
# 2 Ro Conc.	.020	1.60	1.44					
# 2 Ro Conc.	.020	1.40	1.46					

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DATE March 28, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
rise Drill I Ro Tails	.0052	0.64	0.65					
Ro Tails			0.65					
Heads	.0162	1.75	2.89					
Heads			2.91					
# 1 Ro Conc.	.080	9.00	17.88					
# 1 Ro Conc.	.080	9.20	17.98					
# 2 Ro Conc.	.040	3.20	5.09					
# 2 Ro Conc.	.060	3.20	5.04					
# 3 Ro Conc.	.040	3.20	2.88					
# 3 Ro Conc.	.040	3.40	2.85					

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Aria Drill Comp Ro Tails	.0020	0.17	0.25					
Ro Tails			0.25					
Heads	.0050	0.94	1.86					
Heads			1.88					
# 1 Ro Conc.	.080	19.60	36.46					
# 1 Ro Conc.	.080	19.80	36.56					
# 2 Ro Conc.	.020	3.80	3.80					
# 2 Ro Conc.	.020	3.60	3.80					
# 3 Ro Conc.	.020	1.60	1.46					
# 3 Ro Conc.	.020	1.40	1.48					

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REPORT OF ANALYSIS

Essex International, Inc.
Attn: Mr. C. Chase
1704 W. Grant Road
Tucson, Arizona 85705

Job No. 14448
March 30, 1973

Element	Milford Cement Copper (filtered) %
Cu	81.43
Insol	2.13
SiO_2	1.68
SO_4	1.33
Fe	0.72
Pb	0.05
Mn	0.01
Mg	0.02
Mo	0.03
Cl	< 0.02
O_2	11.03
H_2O	34.01

CKC

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SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9156 Ro Tail	.0062	0.60	1.75					
9156 Ro Tail			1.73					
9157 Ro Conc	.060	3.79	4.02					
9157 Ro Conc			3.97					
9158 Ro Tail	.0040	0.38	1.51					
9158 Ro Tail			1.51					
9159 Ro Conc	.076	6.74	6.23					
9159 Ro Conc			6.28					
9160 Ro Tail	.0110	1.31	2.42					
9160 Ro Tail			2.42					
9161 Ro Conc	.100	9.62	11.09					
9161 Ro Conc			11.04					
9162 Ro Tail	.0050	0.64	1.78					
9162 Ro Tail			1.79					
9163 Cl Conc	.300	25.20	16.48					
9163 Cl Conc			16.58					
9164 Cl Tail	.050	2.60	3.02					
9164 Cl Tail			3.02					
9165 Ro Tail	.0020	0.41	1.56					
9165 Ro Tail			1.57					
9166 Cl Conc	~~.070~~ .70	51.30	30.61					
9166 Cl Conc			30.51					
9167 Cl Tail	.040	2.80	2.94					
9167 Cl Tail			2.89					

Milford

PROJECT NO. ~~[illegible]~~
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TUCSON, ARIZONA 8571

SAMPLE SUBMITTED BY Essex International, Inc.

DATE April 18, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9168 Ro Tail	.0135	1.39	2.56					
9168 Ro Tail			2.58					
9169 Cl Conc	.430	22.10	41.89					
9169 Cl Conc			41.79					
9170 Cl Tail	.030	5.70	3.97					
9170 Cl Tail			3.97					
9171 Head	.0105	1.08	1.95					
9171 Head			1.94					
9172 Head	.0160	1.64	2.91					
9172 Head			2.91					

Milford

PROJECT NO. 3000-6
PROSPECT NO. —
BUDGET NO. 8559-19
EGH 4-30-73
APPROVED BY DATE

REGISTERED ASSAYER
CERTIFICATE NO. 8852
PETE S. FLORES
Date Signed 4/18/73
Arizona U. S. A.

No. 9111

CHARGES $ 78.00

ASSAYER-CHEMIST

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1700 W. GRANT RD. • BOX 50106 • 622-4836
TUCSON, ARIZONA 85703

BRANCHES: DOUGLAS, ARIZONA; HAYDEN, ARIZONA; EL PASO, TEXAS; ST. LOUIS, MO.

IDENTIFICATION	GOLD OPT	SILVER OPT	LEAD %	COPPER %	ZINC %	MO. %	IRON %	CO_2 %
00605								20.67
00606								18.61

M. Ford F
General Assay

for file already posted

CC: Essex International, Inc.
ADD: Attn: Mr. C. K. Chase
CITY: 1704 West Grant Road
DD: Tucson, Arizona 85705
CITY:

REMARKS:
Verified determination

ANALYSIS CERT. BY

PREPARATION $
ANALYSIS $ 15.00

1H3A ACC: ESSEX INTERNATIONAL, INC.

DATE SPL. RECEIVED 1/4/73 | DATE COMPL 1/5/73 | TUC 346788 | $ 15.00

Milford

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE March 8, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
56864	.009	0.70						
57736	.064	38.51						
57737	.016	6.20						
57738	.012	3.94						
57739	.008	0.78						
57740	.005	0.44						
57741	.008	1.25						
57742	.120	34.19						
57743	.021	12.28						
57744	.010	6.41						
57745	.007	1.12						
57746	.008	0.55						
57747	.006	1.57						
56979	.035	19.47						
56980	.029	6.74						
56981	.006	0.65						

Mulford

REGISTERED ASSAYER
CERTIFICATE NO. 685
FELIX S. FLORES
Date Signed 3/8/73
Arizona U. S. A.

Invoice # 8924

CHARGES $ 64.00

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

MAR 12 1973
RECEIVED

SAMPLE SUBMITTED BY Essex International, Inc. DATE March 9, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Wilson #1 Special			0.03					
Wilson #2 Special				Trace				

Milford

REGISTERED ASSAYER
CERTIFICATE NO. 1333
DEAN G. FLORES
3/9/73
Arizona U. S. A.

Invoice # 8923

CHARGES $ 4.25

ASSAYER-CHEMIST

3441 East Milber

Phone 889-5787

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

JAN 21 1974

RECEIVED

SAMPLE SUBMITTED BY Essex International, Inc. DATE January 18, 1974

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
ECR - 4	.0030	0.16	0.89					
5	.0008	0.33	2.19					
7	.0010	0.28	1.32					
9	.0012	0.52	1.80					
13	.0004	0.21	1.16					
14	.0010	0.34	2.73					

Mr Alford

Invoice # 10331

CHARGES $ 130.50

REGISTERED ASSAYER
ASSAYER NO. 1
PETER S. FLORES
Date Signed 1/21/74
Arizona U. S. A.

ASSAYER - CHEMIST

3441 East Milber

Phone 889-5787

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85714

SAMPLE SUBMITTED BY Essex International, Inc.

DATE November 2, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	G/L COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	G/Cu
2002 - 0303								.1027
2002 - 0304								.1562
2002 - 0305								.0340
2002 - 0306								.0355
2002 - 0310			7.01					
2002 - 0311			6.81					
2002 - 0312			7.46					
2002 - 0313			7.39					

Milford

PROJECT NO.
BUDGET NO. 8559-19
APPROVED BY
DATE FOR
PAYMENT OF $ 18.00 ONLY

REGISTERED ASSAYER
STATE OF ARIZONA
No. 1
11/12/73
U. S. A.

Invoice # 10013

CHARGES $ 18.00

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE July 20, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
8101 Cl Conc	.50	34.60	25.87					
8102 Cl Tail	.004	3.84	3.91					
8103 Ro Tail	.003	0.79	1.82					
8104 Cl Conc	.20	25.90	21.58					
8105 Cl Tail	.008	2.73	2.83					
8106 Ro Tail	.001	0.59	1.49					
8107 Cl Conc	.729	29.16	36.90					
8108 Cl Tail	.030	16.93	4.61					
8109 Ro Tail	.001	0.71	1.55					
8110 Cl Conc	.030	12.55	29.39					
8111 Cl Tail	.160	14.89	4.22					
8112 Ro Tail	.001	0.70	1.54					
9245 Cl Conc	.010	5.92	19.72					
9246 Cl Tail	.120	9.30	3.31					
9247 Ro Tail	.003	1.31	1.71					
9248 Cl Conc	.044	18.96	32.90					
9249 Cl Tail	.040	3.86	4.83					
9250 Ro Tail	.080	2.70	1.81					

SXM
JUL 23 1973
RECEIVED

REGISTERED ASSAYER
CERTIFICATE NO. 6882
PETE S. FLORES
Date Signed 7/20/73
Arizona U. S. A.

Invoice # 9515

CHARGES $ 99.00

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE July 20, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
8113 Head	.001	1.19	1.94					
8114 Head	.001	0.89	1.65					

SXM
JUL 23 1973
RECEIVED

REGISTERED ASSAYER
CERTIFICATE No. 6892
PETE S. FLORES
Date Signed 7/20/73
Arizona U. S. A.

Invoice # 9515

CHARGES $ 12.00

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE July 17, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9220 Head	.012	1.59						

Invoice # 9492

CHARGES $ 3.50

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETER S. 7/19/73 Date Signed Arizona U. S. A.

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE July 17, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	Percent Ox Cu
9220 Head			2.07					1.06
9221 Cl Conc	.20	29.41	50.47					7.32
9222 Cl Tail	.01	7.14	6.93					
9223 Ro Tail	.002	0.61	0.94					
9224 Cl Conc	.20	33.29	51.55					6.25
9225 Cl Tail	.01	5.20	4.37					
9226 Ro Tail	.003	0.41	0.66					
9227 Cl Conc	.12	33.17	51.84					5.22
9228 Cl Tail	.01	6.42	6.20					
9229 Ro Tail	.001	0.87	1.15					
9230 Cl Conc	.16	35.39	54.09					4.98
9231 Cl Tail	.01	10.40	9.84					
9232 Ro Tail	.001	0.46	0.72					
9233 Cl Conc	.20	34.55	52.52					5.27
9234 Cl Tail	.01	7.54	5.78					
9235 Ro Tail	.001	0.84	1.21					
9236 Cl Conc			48.33					7.22
9237 Cl Tail			8.76					
9238 Ro Tail			1.11					
9239 Cl Conc	.04	6.03	48.72					4.98
9240 Cl Tail			9.45					
9241 Ro Tail			0.74					
9242 Cl Conc	.020	5.67	48.03					7.52
9243 Cl Tail			8.76					
9244 Ro Tail			1.03					

Pete Flores

REGISTERED ASSAYER CERTIFICATE No. 6056 PETE G. FLORES Date Signed 7/17/73 Arizona U.S.A.

Invoice # 9480

CHARGES $ 144.50

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE July 12, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	Percent Ox Cu
Sulfide Conc Comp	.118	19.79	32.75					3.28

SXM
JUL 13 1973
RECEIVED

REGISTERED ASSAYER
CERTIFICATE NO. 6842
PETE S. FLORES
Date Signed 7/12/73
Arizona U. S. A.

Invoice # 9472

CHARGES $ 8.50

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAM JUN 4 1973 RECEIVED

SAMPLE SUBMITTED BY Essex International, Inc. DATE May 30, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9182 Conc	.04	20.77	19.44					
9182 Conc			19.34					
9183 Cl Tail	.02	3.14	2.79					
9183 Cl Tail			2.79					
9184 Tail	.001	0.47	1.55					
9184 Tail			1.53					
9185 Conc	.10	30.50	17.66					
9185 Conc			17.79					
9186 Cl Tail	.02	5.08	3.18					
9186 Cl Tail			3.21					
9187 Tail	.001	0.53	1.64					
9187 Tail			1.63					
9188 Conc	.03	12.92	14.50					
9188 Conc			14.31					
9189 Cl Tail	.01	2.54	2.05					
9189 Cl Tail			2.02					
9190 Tail	.001	0.50	1.59					
9190 Tail			1.58					
9191 Conc	.23	77.10	36.11					
9191 Conc			36.21					
9192 Cl Tail	.02	6.92	3.77					
9192 Cl Tail			3.75					
9193 Tail	.001	0.61	1.68					
9193 Tail			1.68					

Milford

REGISTERED ASSAYER CERTIFICATE NO. 5452 STATE OF FLORES Date Signed 5/30/73 Arizona U. S. A.

Invoice # 9289

CHARGES $ 152.00

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

JUN 4 1973

RECEIVED

SAMPLE SUBMITTED BY Essex International, Inc. DATE May 30, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9194 Conc	.23	57.47	25.06					
9194 Conc			24.96					
9195 Cl Tail	.02	5.79	3.92					
9195 Cl Tail			3.92					
9196 Tail	.028	0.80	1.96					
9196 Tail			1.94					
9197 Conc	.05	17.09	17.37					
9197 Conc			17.46					
9198 Cl Tail	.01	2.95	3.01					
9198 Cl Tail			2.98					
9199 Tail	.001	0.68	1.83					
9199 Tail			1.80					
9200 Tail	.011	0.91	2.01					
9200 Tail			2.02					

Mulford

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed 5/30/73 Arizona U. S. A.

Invoice # 9289

CHARGES $ 99.00

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

JUN 4 1973

RECEIVED

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 30, 1973

SAMPLE MARKED	GOLD OZ/TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
1039 Conc	.05	10.25	11.15					
1039 Conc			11.05					
1040 Cl Tail	.04	2.41	2.39					
1040 Cl Tail			2.37					
1041 Tail	.001	0.65	1.84					
1041 Tail			1.85					
1042 Conc	.06	11.98	11.45					
1042 Conc			11.35					
1043 Cl Tail	.02	2.02	2.81					
1043 Cl Tail			2.81					
1044 Tail	.007	0.66	1.87					
1044 Tail			1.85					

Invoice # 9289

CHARGES $ 76.00

REGISTERED ASSAYER CERTIFICATE NO. 6042 PETE S. FLORES Date Signed 6/34/73 Arizona U. S. A.

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 21, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	G/L Fe^{+++}
9180								1.05

Mulford

Invoice # 9255

CHARGES $ 3.75

5/21/73

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 21, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	G/L Fe+++	G/L Cu
9178			0.34					
9179(Sol)							0.81	2.37

Milford

Peter B. Hine
5/21/73

Invoice # 9255

CHARGES $ 8.25

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 21, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	G/L Copper	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	G/L Fe+++
9173 Solution				3.09				1.24
9174 Leach Tlg.			0.35					
9175 Solution				3.53				1.60
9176 Leach Tlg.			0.48					

Mulford

Invoice # 9255

CHARGES $ 15.50

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-00-

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 16, 1973

SAMPLE MARKED	GOLD OZ./TON	G/L Copper	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9180		2.54						
9181			0.25					

MAY 18 1973
RECEIVED

REGISTERED ASSAYER
CERTIFICATE NO. 1854
ROBERTO FLORES
Date Signed 5/16/73
Arizona U. S. A.

Invoice # 9228

CHARGES $ 4.00

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 21, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	Percent Cl
509								0.234
511								0.173

Milford

Peter A. Stine
5/21/73

Invoice # 9255

CHARGES $ 12.00

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE May 14, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Maria 2002			1.15					

Milford

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed 5/21/73
Arizona U. S. A.

Invoice # 9255

CHARGES $ 2.50

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE April 23, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9177	.0032	0.70	1.75					
9177			1.75					

APR 25 1973
RECEIVED

COPY

Milford

PROJECT NO. 3000-6
BUDGET NO. 8559-19
APPROVED BY EGH
DATE 4-30-73 FOR
PAYMENT OF $ 21.50 ONLY

REGISTERED ASSAYER
CERTIFICATE NO. 6552
PETE S. FLORES
Arizona U. S. A.

Pete S. Flores 4-30-73

Invoice # 9143

CHARGES $ 21.50

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE April 23, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON
1202	.0010	0.69	1.79				
1202			1.77				

XM
APR 25 1973
RECEIVED

COPY

Milfeil

PROJECT NO. 3000-6
BUDGET NO. 8559-19
APPROVED BY EGH
DATE 4-30-73 FOR
PAYMENT OF
$ 21.50 ONLY

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed 4/23/73
Arizona U. S. A.

Invoice # 9143

CHARGES $ 21.50

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

CORRECTION

SAMPLE SUBMITTED BY Essex International, Inc.

APR 23 1973 RECEIVED

DATE April 20, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9166	.70							

Milford

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed Arizona U. S. A.

CHARGES $ N/C

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE April 18, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9156 Ro Tail	.0062	0.60	1.75					
9156 Ro Tail			1.73					
9157 Ro Conc	.060	3.79	4.02					
9157 Ro Conc			3.97					
9158 Ro Tail	.0040	0.38	1.51					
9158 Ro Tail			1.51					
9159 Ro Conc	.076	6.74	6.23					
9159 Ro Conc			6.28					
9160 Ro Tail	.0110	1.31	2.42					
9160 Ro Tail			2.42					
9161 Ro Conc	.100	9.62	11.09					
9161 Ro Conc			11.04					
9162 Ro Tail	.0050	0.64	1.78					
9162 Ro Tail			1.79					
9163 Cl Conc	.300	25.20	16.48					
9163 Cl Conc			16.58					
9164 Cl Tail	.050	2.60	3.02					
9164 Cl Tail			3.02					
9165 Ro Tail	.0020	0.41	1.56					
9165 Ro Tail			1.57					
9166 Cl Conc	~~.070~~ .70	51.30	30.61					
9166 Cl Conc			30.51					
9167 Cl Tail	.040	2.80	2.94					
9167 Cl Tail			2.89					

Milford

PROJECT NO. ~~[illegible]~~
PROJECT NO.
BUDGET NO. 8559-19
EGH 4-18-73
APPROVED BY DATE

Milford

REGISTERED ASSAYER
CERTIFICATE NO. 5052
PETER S. FLORES
Date Signed 4/18/73
Arizona U. S. A.

ASSAYER-CHEMIST

Invoice # 9111

CHARGES $ 157.50

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE April 18, 1973

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
9168 Ro Tail	.0135	1.39	2.56					
9168 Ro Tail			2.58					
9169 Cl Conc	.430	22.10	41.89					
9169 Cl Conc			41.79					
9170 Cl Tail	.030	5.70	3.97					
9170 Cl Tail			3.97					
9171 Head	.0105	1.08	1.95					
9171 Head			1.94					
9172 Head	.0160	1.64	2.91					
9172 Head			2.91					

Milford

PROJECT NO. ~~[illegible]~~

PROJECT NO. —

BUDGET NO. 8559-19

EGH 4-30-73

APPROVED BY DATE

REGISTERED ASSAYER CERTIFICATE NO. 8852 PETE S. FLORES Date Signed 4/18/73 Arizona U. S. A.

No. 9111

CHARGES $ 78.00

ASSAYER - CHEMIST

WESTERN WEIGHERS
SINCE 1914
HAWLEY & HAWLEY

BRANCHES
Douglas
Hayden
Morenci
Inspiration
El Paso
St. Louis

WESTERN WEIGHERS, INC.

METALLURGICAL SAMPLERS AND WEIGHERS

1708 WEST GRANT ROAD
TUCSON, ARIZONA 85705
(602) 622-1721

REPORT OF ANALYSIS

Essex International, Inc.
Attn: Mr. C. Chase
1704 W. Grant Road
Tucson, Arizona 85705

Job No. 14448
March 30, 1973

Element	Milford Cement Copper (filtered) %
Cu	81.43
Insol	2.13
SiO_2	1.68
SO_4	1.33
Fe	0.72
Pb	0.05
Mn	0.01
Mg	0.02
Mo	0.03
Cl	< 0.02
O_2	11.03
H_2O	34.01

CKC

Milford

PROJECT NO.
PROSPECT NO.
BUDGET NO. 85-59-19
APPROVED BY
DATE

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

ReRun

SAMPLE SUBMITTED BY Essex International, Inc.

DATE March 30, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ. / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Maria Drill Comp. Rc Tail			0.26					
			0.26					

SXM

APR 2 - 1973

RECEIVED

PROJECT NO.

PROSPECT NO.

BUDGET NO. 8559-19

EGH 4-6-73

APPROVED BY DATE

REGISTERED ASSAYER
CERTIFICATE NO. 6851
PETE S. FLORES
3/30/73
Date Signed
Arizona U. S. A.

Invoice # 9006

CHARGES $ 4.00

ASSAYER

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE March 28, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
unrise Drill II Ro Tails	.0070	0.59	0.90					
Ro Tails			0.89					
# 1 Ro Conc.	.120	16.80	28.26					
# 1 Ro Conc.	.140	17.00	28.26					
# 2 Ro Conc.	.040	3.60	6.37					
# 2 Ro Conc.	.040	3.60	6.32					
# 3 Ro Conc.	.020	3.00	3.18					
# 3 Ro Conc.	.020	3.00	3.22					

PROJECT NO.

PROSPECT NO.

BUDGET NO. 8559-19

EGH 4-6-73

APPROVED BY DATE

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Issued 3/28/73 Arizona U. S. A.

Invoice # 9000

CHARGES $ 56.00

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Essex International, Inc.

DATE March 28, 1973

SAMPLE MARKED	GOLD OZ / TON	SILVER OZ / TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON
Eden Tressure Ro Tails	.0024	0.29	0.47				
Ro Tails			0.48				
Heads	.0070	0.89	1.91				
Heads			1.93				
# 1 Ro Conc.	.300	18.00	29.24				
# 1 Ro Conc.	.300	16.80	29.05				
# 2 Ro Conc.	.040	3.40	5.52				
# 2 Ro Conc.	.060	3.60	5.58				
# 3 Ro Conc.	.020	1.80	2.39				
# 3 Ro Conc.	.040	1.80	2.43				

PROJECT NO.

PROSPECT NO.

BUDGET NO. 8559-19

EGH 4-6-73

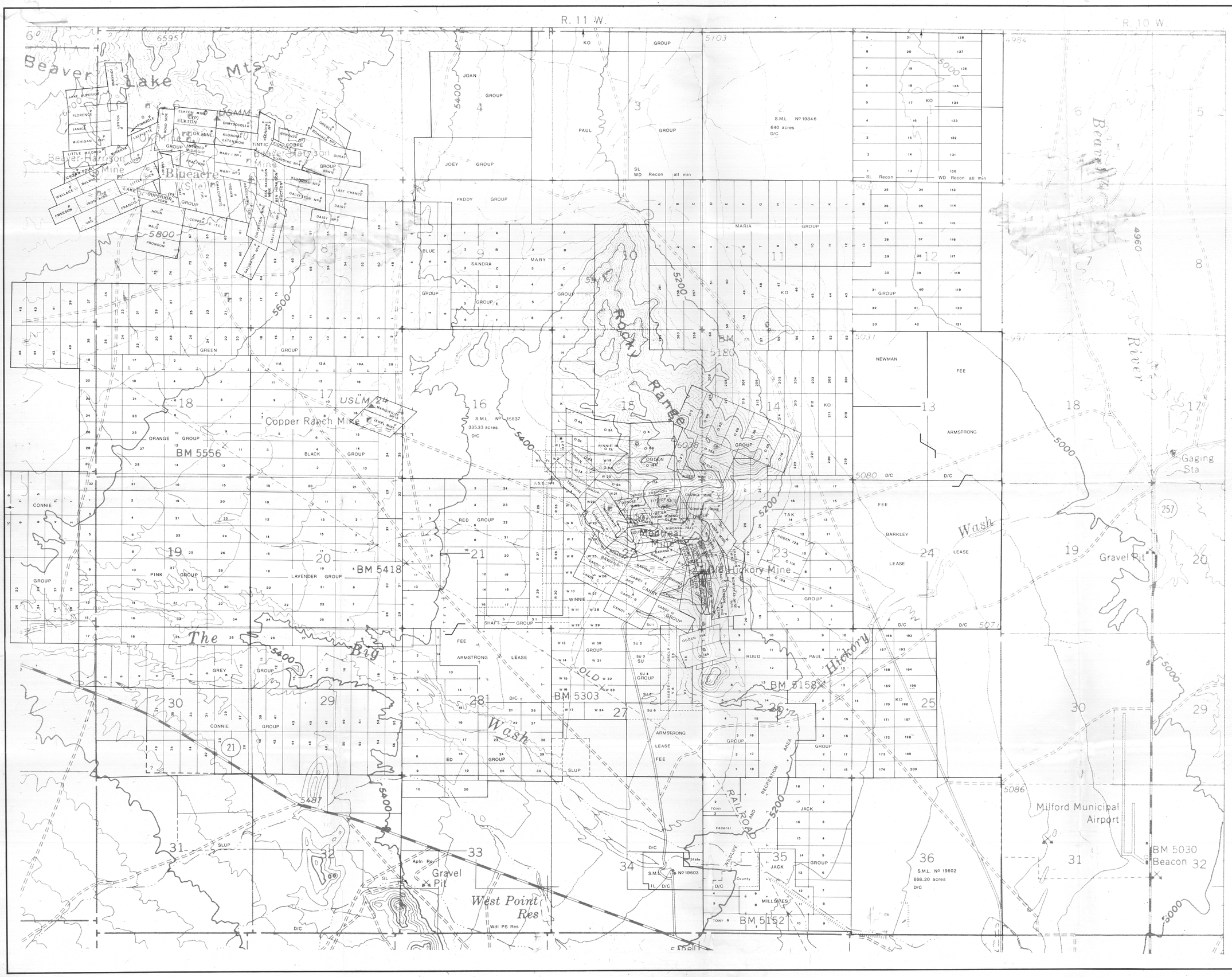
APPROVED BY DATE

REGISTERED ASSAYER CERTIFICATE NO. 1552 FELIX S. FLORES 3/28/73 ARIZONA U.S.A.

Invoice # 9000

CHARGES $ 77.50

ASSAYER-CHEMIST



1	U-BEVA	TOLEDO MINING CO	100%
2	OLD HICKORY		100
3	MARGURITE		100
4	OGDEN SMELTER		100
5	HIDDEN TREASURE		80
		ROD DIXON	20
6	BAWANA/CANDY	TOLEDO MINING CO	100
11	DUNDEE		100
12	ED (part of 43)	MILFORD COPPER CORP	100
13	RED & VERDE	TOLEDO MINING CO	100
14	TAK		100
15	MARIA		100
16	BLUE, ORANGE		100
17	SHASTA (OK)		100
18	SHASTA (ELKTON)		
19	NORTH STAR		
20	OSCEOLA		25
		PENDER 25% JOHNSON 25% ROBERTS	25
22	MILL (on state lease ML19603)		
23	HARRINGTON-HICKORY		100
24	HOOSIER BOY		
25	VICKSBURG		
26	STATE LEASES ML15837		50
		ROD DIXON	50
	ML19602, ML19603, ML19846	TOLEDO MINING CO	100
27	NORMA		
34	KO		
36	LAKE SUPERIOR		
37	CONNIE		100
40	JACK MILL SITES	ESSEX	100
41	FEE LEASES, ARMSTRONG		
42	FEE LEASE, BARKLEY		
43	WINNIE, ED & SU	MILFORD COPPER CORP	100
44	TINTIC COBRE		60
			40
45	17.5 acres BIRCH, GARDINER et al		
46	PATENTED CLAIMS	TEREX & ROGER	
47	PATENTED CLAIM	?	
48	SHASTA unpatented lode claims	?	

T. 27 S.

49	FEE	NEWMAN
50	WILDLIFE & RECREATION AREA	

ESSEX

ESSEX INTERNATIONAL, INC.
1704 WEST GRANT RD., TUCSON, ARIZONA 85705
PHONE (602) 624-7421

PROJECT: ESSEX-MILFORD
PROSPECT:
NUMBER: U001P9-1171
COUNTY, STATE: BEAVER, UTAH
T., R. & SECTION:
LATITUDE, LONGITUDE:

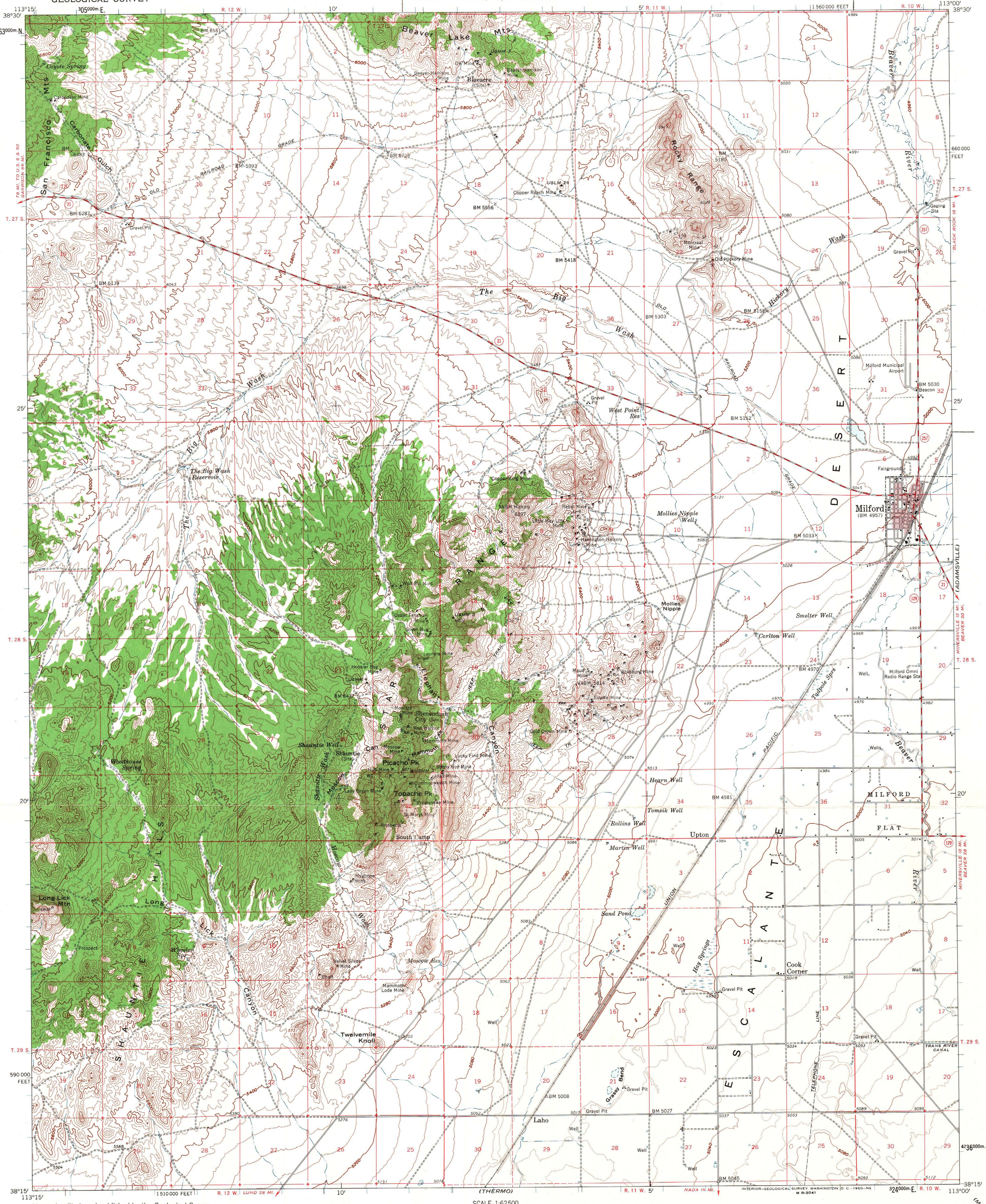
LAND STATUS MAP

SCALE: 1" = 1000'
DATE: 12/22/71
DATA BY:
PREPARED BY: blr

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF UTAH
GEORGE DEWEY CLYDE, GOVERNOR
JOSEPH M. TRACY, STATE ENGINEER

MILFORD QUADRANGLE
UTAH—BEAVER CO.
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1951, 1953, and 1955. Field check 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on Utah coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Red tint indicates area in which only landmark buildings are shown

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

TRUE NORTH
MAGNETIC NORTH
16°
APPROXIMATE MEAN DECLINATION, 1958

SCALE 1:62 500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UTAH
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

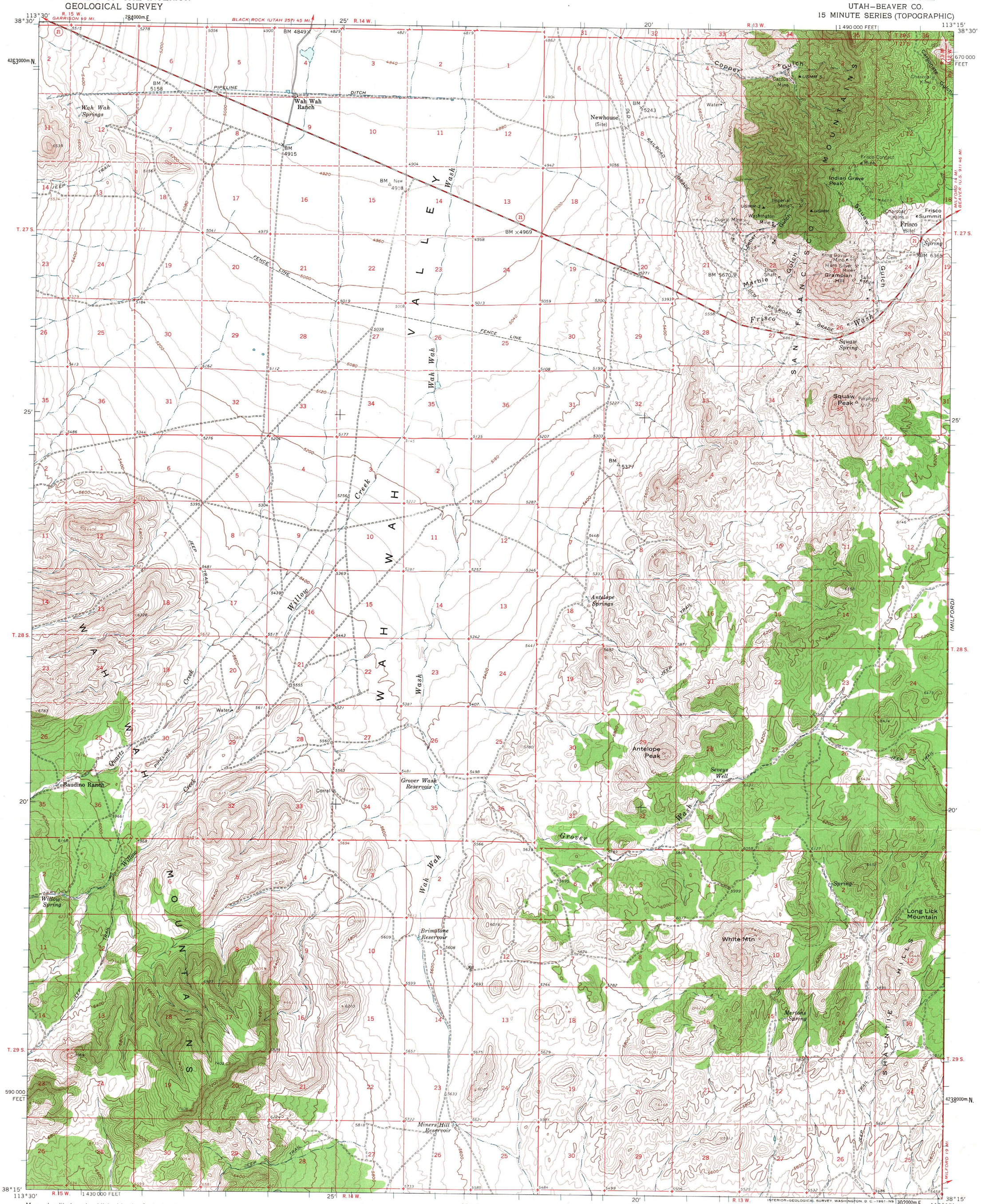
The east half of this area also covered by 1:24 000-scale maps of Milford, 1958, and Milford Flat, 1953, 7 5 minute quadrangles

MILFORD, UTAH
N3815—W11300/15

1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FRISCO QUADRANGLE
UTAH–BEAVER CO.
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods and by planetable surveys 1959. Aerial photographs taken 1953

Polyconic projection. 1927 North American datum
10,000-foot grid based on Utah coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Dashed land lines indicate approximate locations

16°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1959

SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UTAH
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

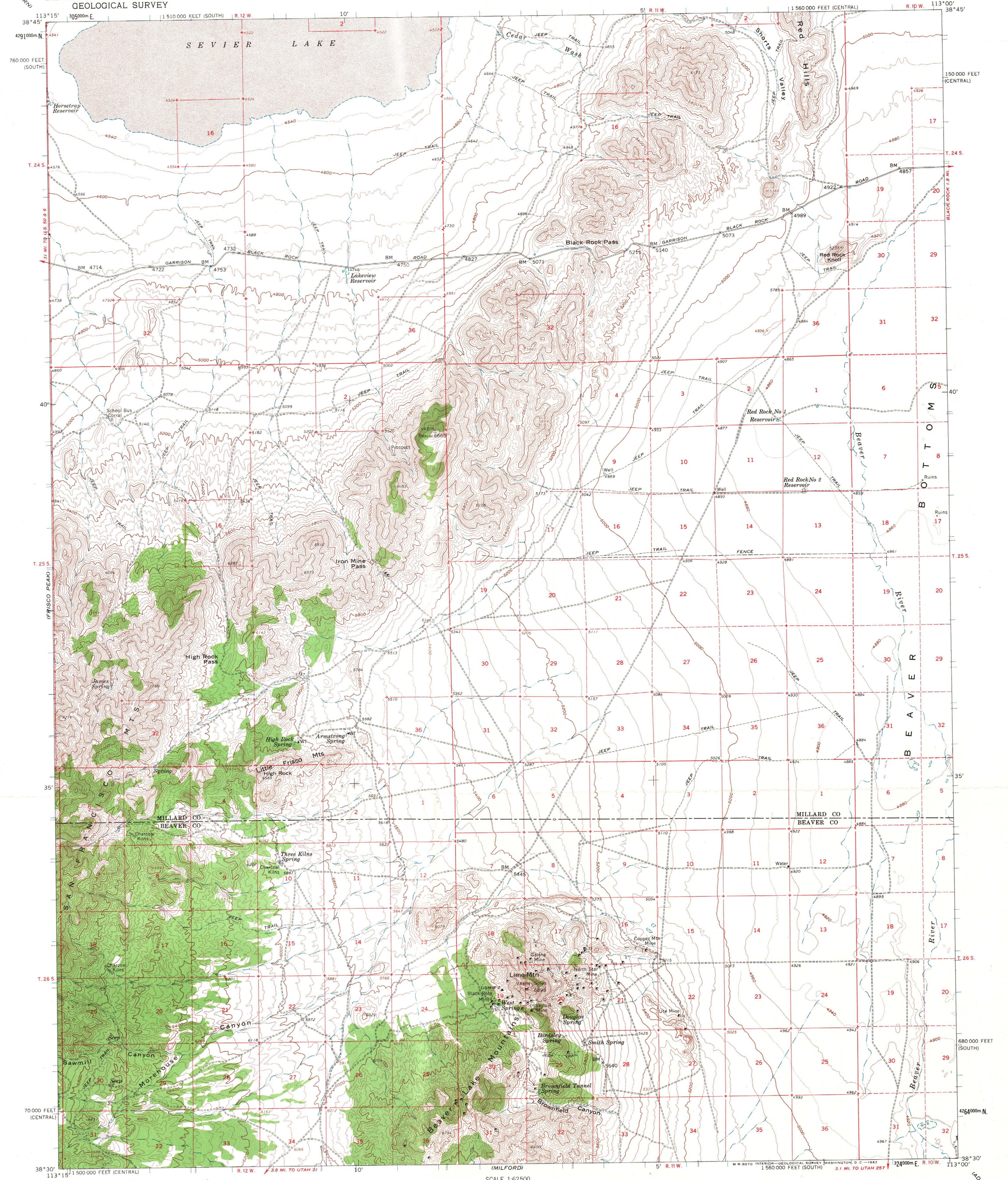
FRISCO, UTAH
N3815—W11315/15

1959

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1961—N5
MR 6648

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BEAVER LAKE MTS. QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1953 and planetable surveys 1960

Polyconic projection. 1927 North American datum
10,000-foot grids based on Utah coordinate system, central and south zones
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Dashed land lines indicate approximate locations
Land lines unsurveyed in parts of T. 24 S.–Rs. 10, 11, and 12 W., and T. 25 S.–Rs. 11 and 12 W.

16°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1960

SCALE 1:62 500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UTAH
QUADRANGLE LOCATION

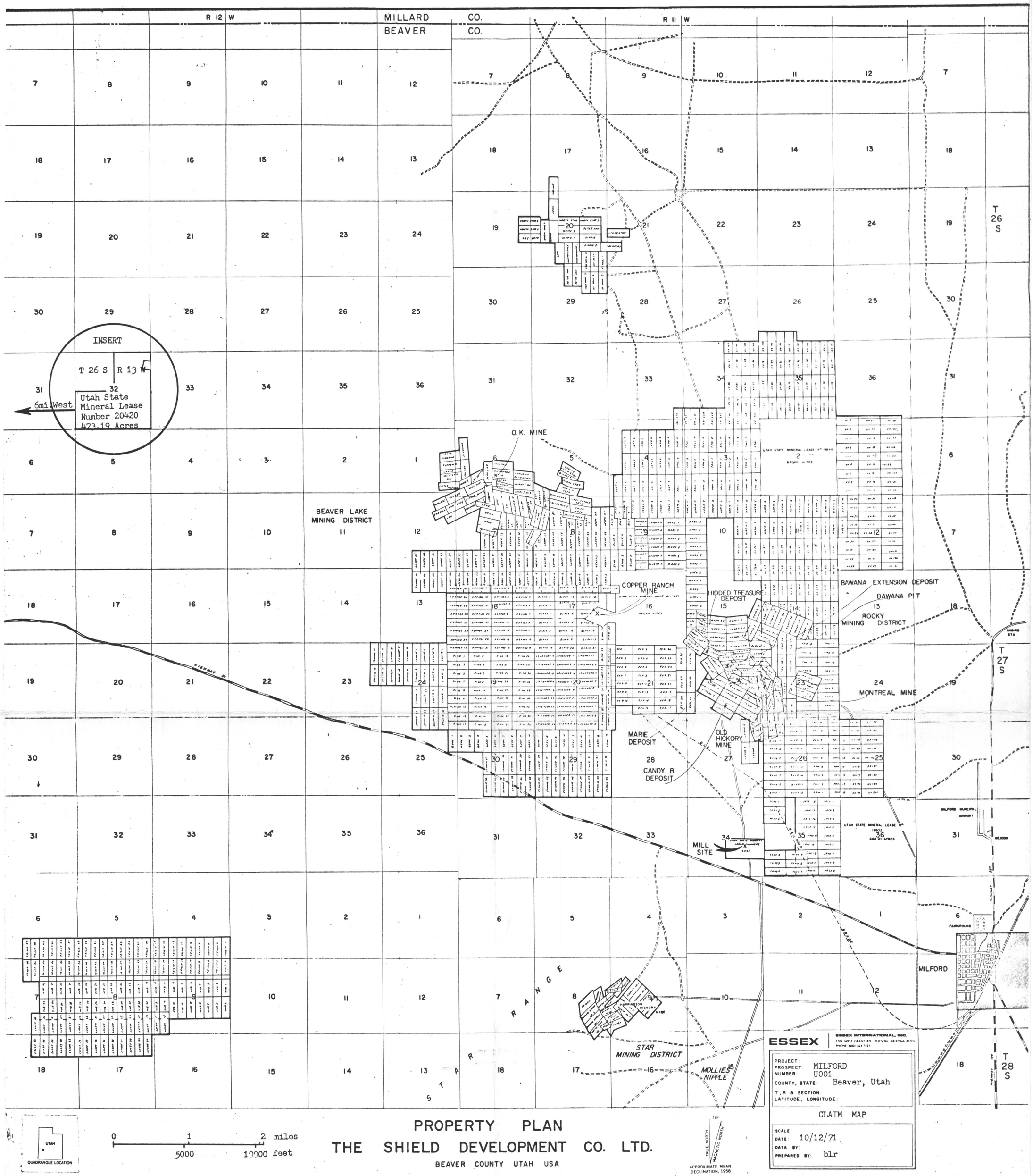
ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - -

BEAVER LAKE MTS., UTAH
N3830—W11300/15

1960

EXHIBIT III



PROPERTY PLAN

THE SHIELD DEVELOPMENT CO. LTD.

BEAVER COUNTY UTAH USA

The Beaver County News

SINGLE COPY — 15¢ MILFORD, UTAH 84751 THURSDAY, JUNE 27, 1974 VOLUME 73 — NO. 26

Beaver County sportsmen united Monday night in an effort to convince the Big Game Board that a 'Buck Only' deer season was needed to