SADDLE DEPOSIT - TOIYABE

LANDER CO., NEVADA

Ore Reserve Evaluation and
Exploration Potential

By M. D. Regan, Consulting Geologist

1986

MDR

- CONFIDENTIAL -

ORE RESERVE EVALUATION

Saddle Deposit

TOIYABE PROJECT
Lander County, Nevada

by

M. D. Regan

M.D. Regan & Associates
Spokane, Washington

May, 1986

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I SUMMARY

The purpose of this evaluation is to make an independent determination of potential surface-minable, heap-leachable ore reserves at the Saddle deposit at Toiyabe based on available Homestake Mining Company drilling results and other data provided by N. A. Degerstrom, Inc. Table 1, summarizes these reserves as determined in this evaluation.

Table 1

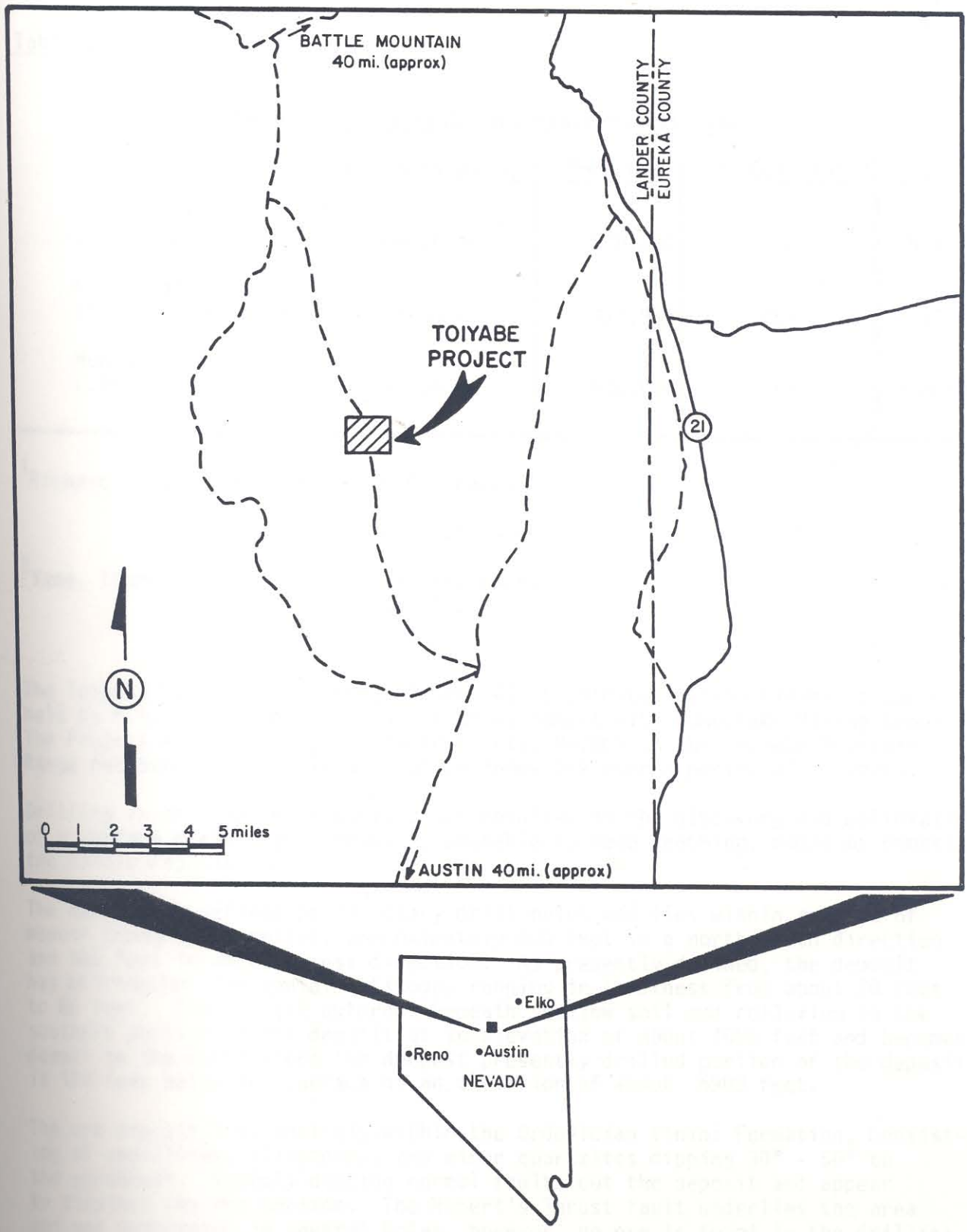
Toiyabe Project

Saddle Deposit - Reserve Summary
(Cutoff 0.03oz/ton)

Classification	Tons(dst)	Oz. Au/Ton	TOTAL Ounces/Gold
Proven	307,000	.079	24,242
Probable	271,330	.096	26,084
Total Proven & Probable	578,330	.087	50,326
Round To:	578,000	.087	50,300

Note: A total of 9,000 tons grading 0.119 oz. gold per ton in the proven reserve contains some carbon and is classified as 'Mixed' ore. (see table 5)

Table 2, compares the reserves from this evaluation with those previously calculated by Homestake and by N.A. Degerstrom, Inc. It should be noted that this evaluation identifies geologic ore potentially minable. As such, some of the deeper ore may not be economically recoverable. This accounts for the lower tonnage reported by Degerstrom. Degerstrom's tonnage at a 0.03 cutoff is 14% lower and Homestake's at a 0.04 cutoff is about 2% lower and it would be realistic to lower the geologic reserve from this evaluation 10% to account for ore that may not be minable due to excessive stripping and/or the presence of carbonaceous material.



TOIYABE PROJECT LOCATION MAP

1

Table 2

Comparison of Toiyabe Ore Reserves Estimates

	Classification	Tons Ore	Oz.Gold/Ton	SR
This Report (.03 Cutoff)	Geologic	578,000	.087	N A
N.A. Degerstrom, Inc. (1986)[1] (.03 Cutoff)	Minable	494,953	.089	2.39:1
Homestake 1981[2] (.04 Cutoff)	Minable	566,000	.084	2.60:1

[1]Richard Stager, Vice President Engineering,
N.A. Degerstrom, Inc.
Company Date - April 1986.

[2]Yang, Thomas, S., Mining Engineering Dept.
Homestake Mining Co.

The Toiyabe Project consisting of over 400 unpatented mining claims is currently held by N.A. Degerstrom Inc., under an agreement with Homestake Mining Company. The Project Area, located in Lander County, Nevada in the Toiyabe Mountain Range has been extensively drilled by Homestake over a period of 20 years.

Drilling in this large property block resulted in the discovery and deliniation of a surface minable gold deposit, amenable to heap leaching, named by Homestake, the Saddle deposit.

The deposit is defined by 32 rotary drill holes and lies within an area of modest topographic relief, approximately 800 feet in a north-south direction and 500 feet in an east-west direction. As presently defined, the deposit has an irregular horizontal attitude, ranging in thickness from about 20 feet to 80 feet. The deposit outcrops beneath shallow soil and colluvium in the southern portion of the deposit at an elevation of about 7000 feet and becomes deeper to the north where the deepest presently drilled portion of the deposit is 170 feet below the surface at an elevation of about 6900 feet.

The ore deposit lies entirely within the Ordovician Vinini Formation, consisting of argillites, siltstones, and minor quartzites dipping 30° - 50° to the northeast. Steeply dipping normal faults cut the deposit and appear to displace the ore horizon. The Robert's Thrust fault underlies the area and was penetrated in several holes, however, no ore is found in the drilling below this fault.

A carbonaceous facies appears to underlie most of the deposit. Metallurgical testing by Homestake indicates that gold in the carbonaceous rock is not readily amenable to extraction by heap leaching, therefore gold mineralization in carbonaceous rock is not included in the reserves in this evaluation.

Some relatively high grade 'mixed' ore containing small amounts of carbonaceous material, according to the drill logs, may be somewhat amenable to leaching. Such material may be considered for leaching in a segregated leach pile. This reserve estimate recognizes approximately 9,000 tons of this material grading 0.119 oz. gold per ton.

VI DATA USED IN THIS EVALUATION

A. Homestake Data

1) Toiyabe Project - Bench Composites and Detail Assay Data March 1981

2) Drill Hole Assay Logs for each of the individual holes--Toyabe Project.

3) Toiyabe Geologic Drill Logs to accompany the Toiyabe AFE, April 1981, DH-1 to DH-133.

4) Summary Report - Toiyabe Gold Project, Lander County, Nevada by James J Cooperand Michael D. Jackson, April 1981.

5) Statistical Comparison of Drill Hole Assays, Toiyabe. Memo from Jim Cooper to Bill Hallager, April 6, 1981.

6) Toiyabe Recheck Drilling Statistical Analysis. Memo to Jim Cooper from Bill Hallager, April 17, 1981.

7) Toiyabe Metallurgical Update and Recommended Program. Memorandum to Jim Cooper from Phillip Walker, April 15, 1981.

8) Preliminary Engineering and Economic Evaluation Toiyabe Project, by Thomas S. Yang, April 13, 1981.

B. Degrestrom Data

9) Toiyabe Mine Plan, May, 1986, by Richard Stager. (consists of notes and undrafted maps).

10) Economic Study for Toiyabe Mine, Memo from John Wark to Neal Degerstrom, March 10, 1986.

11) Toiyabe Project Memo from John F. Wark to Dan Regan, dated April 10, 1986.

C. Other Data

12) Comparison of Results of Diamond Drill & Rotary Drill Sampling of Sub-micron gold deposits in the Crescent Valley Area, Nevada by Lawrence Walters undated (Circa 1970) U.S. Bureau of Mines Report of Investigations.

II INTRODUCTION

On April 4, 1986, Mr. N. A. Degerstrom, President of N. A. Degerstrom, Inc. commissioned M. D. Regan to evaluate Homestake data concerning the Toiyabe Project, in anticipation of the agreement between homestake and Degerstrom. The primary purpose of this report is to verify reserves reported by Homestake and checked by N.A. Degerstrom, Inc.

John Wark, Chief Geologist, N. A. Degerstrom, Inc. delivered the bulk of the Homestake data to M. D. Regan on April 21st. Review of the data and evaluation of the ore reserves continued on an intermittent basis until the end of May. This review was supplemented by a brief field examination of the property on April 27th. The bulk of this ore reserve evaluation is based on the Homestake data, however the input of John Wark, Chief Geologist, and Richard Stager, Vice President of Engineering for N. A. Degerstrom, Inc. is also acknowledged.

The Toiyabe Property is located in the western half of Section 18, twp. 25N., Range 47E., and the eastern half of Section 13, twp. 25N, R.46E, Lander County, Nevada. It is accessible from the north and from the south. From the north it is accessible via 50 miles of road from Battle Mountain, Nevada and from the south by approximately 56 miles of road from Austin, Nevada. The deposit lies at an elevation of approximately 7,000 feet in the Toiyabe Mountain Range in an area of relatively moderate topographic relief.

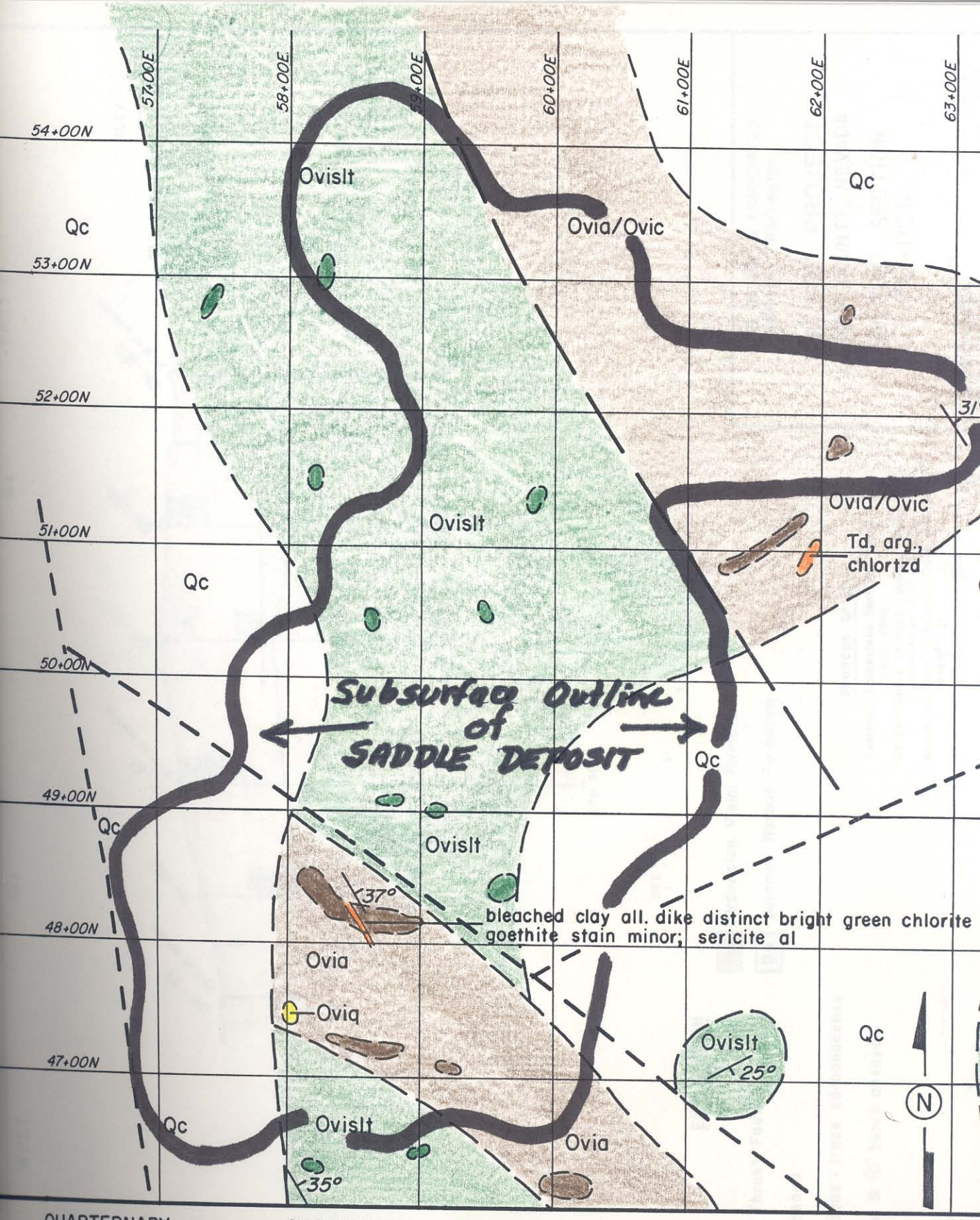
The area experiences sub zero temperatures during the winter months of December, January, and February, and moderate snowfall. Summers are characteristically hot and dry with occasional thunder storms.

N. A. Degerstrom, Inc. currently holds the property by means of an 'option to lease' from Homestake Mining Company. The land in the area is public domain administered by the U. s. Bureau of Land Management.

III GEOLOGY

The surface rocks at the Saddle deposit are Ordovician Vinini formation consisting of inter-bedded chert argillite and siltstone, with minor quartzite, limestone and dolomite.(Map 2) Some of the deeper drill holes encounter the Dovonian Wedban formation, which is a black carbonaceous limestone and dolomite with inter-bedded dolomitic siltstones and silty limestones.

A flat lying thrust fault of regional magnitude, the Robert's Thrust, separates the overlying Vinini from the underlying Wenban. The thrust fault is believed to be much earlier in age than the gold mineralization. Later, high angle faults mapped by Homestake geologists appear to cut through portions of the Saddle deposit and influence the location of the gold mineralization as well as the location of the various rock types and the underlying thrust fault contact. The age relationship of the high angle structures to the gold mineralization is unknown.



QUARTERNARY

- Qc — Colluvial, alluvial cover, thin
- Igneous dike, highly altered
- High angle fault
- Inferred high angle fault

ORDOVICIAN - VININI FORMATION

- Ovia — Argillite
- Ovic — Chert
- Ovislt — Siltstone
- Oviq — Quartzite
- Ovils — Thin bedded limestone (not mapped in area)

(Geology from Homestake Map 1"=200')

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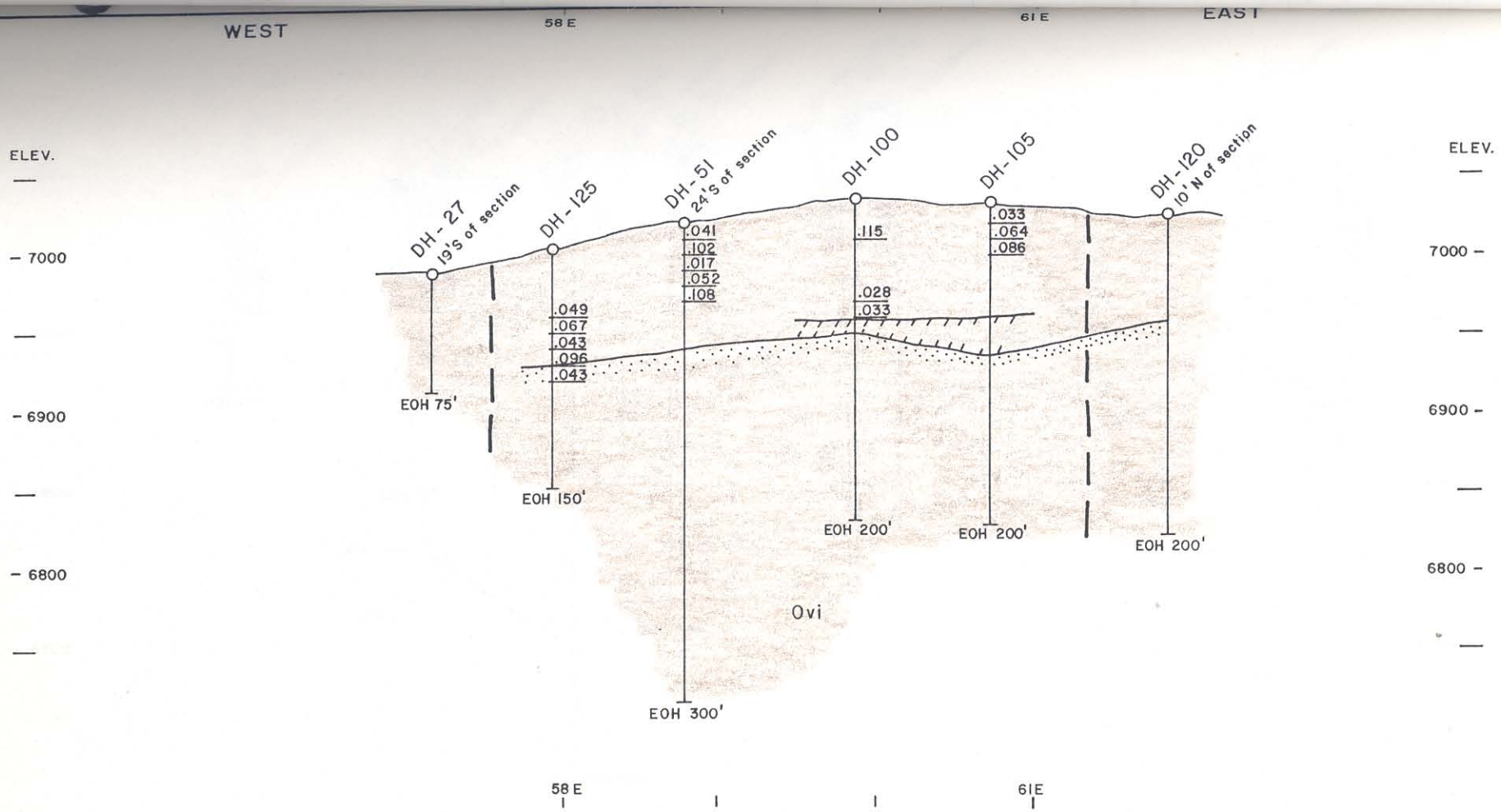
SPOKANE, WASHINGTO

GEOLOGIC MAP
TOIYABE PROJECT
LANDER CO., NEVADA

2 SECTION 13, T.25N, R.46E.
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D.



EXPLANATION

- Fault
- Roberts Thrust Fault
- Carbonaceous
- "Mixed" zone - trace carbonaceous
- DH-35 Drill hole & 10' bench assays (.051, .107, .100)
- Ovi Ordovician Vinini Formation
- Dw Devonian Wenban Formation

SOURCES OF DATA

Geology - Homestake Section, dated April 1981
Carbonaceous contact - plotted from Homestake drill logs
Bench assays - calculated from Homestake assay logs

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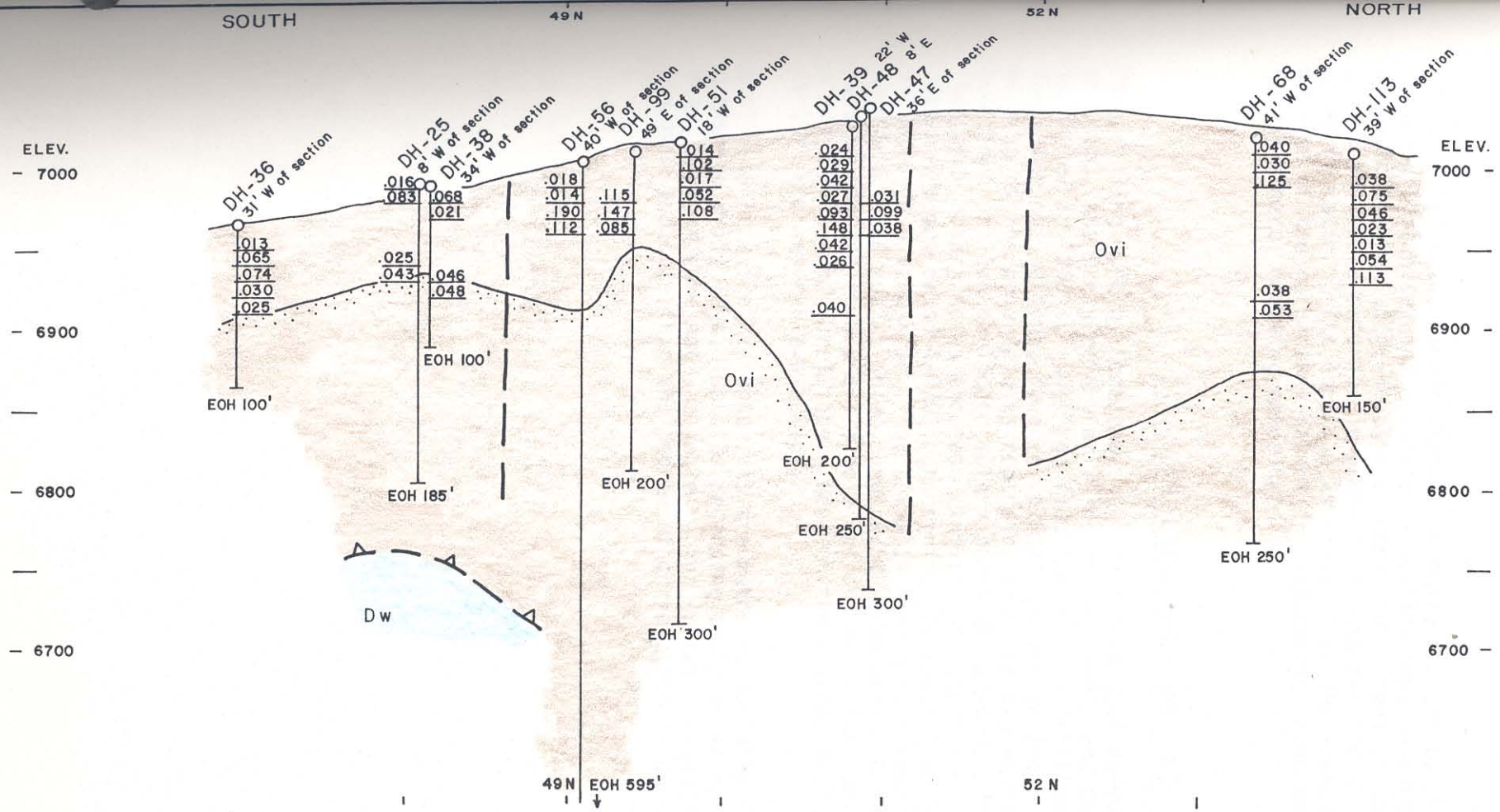
Spokane, Washington

TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION 50+00 N

0 — 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986

3



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TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION 59+00E

4

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986

The surface at the Saddle deposit is characterized by strong brown limonite staining (goethite) and moderate silicification. A carbonaceous zone underlies the bulk of the Saddle deposit at depths of 5 feet to more than 200 feet. The carbonaceous material is present in both the Vinini formation and the Weban formation. Its location is critical to the evaluation of ore reserves because of the refractory nature of carbonaceous ores to heap-leaching or normal mineral dressing procedures.

IV DRILLING AND SAMPLING

The drilling done by Homestake at Toiyabe was done during two specific periods of time, the early rotary drilling in the 1960's and the later rotary drilling in the early 1980's. Cuttings from the earlier drilling were not available for later evaluations, however, all assays and geologic logs were available. Because of the uncertainity regarding sampling procedures in the early drilling Homestake drilled duplicate rotary holes and diamond drill holes next to the older rotary holes and made statistical comparisons. A copy of a Homestake internal memo, dated 4/6/81, concerning the results of this analysis are included in Appendix IV. The analysis indicates a poor coorelation between core holes and rotary holes, however the comparison between composited intervals of one old rotary drill hole and one new rotary drill hole indicates a relatively good corelation. None of the diamond drill holes were used in this ore reserve evaluation.

Duplicate assays of 27 intervals are reported in Table 3 as taken from the Homestake drill logs. Details regarding the precise nature of the check assay program were not available to the writer. However, a comparison of the data indicate that the degree of correlation is quite good.

TABLE 3

Assay Checks (Oz. per Ton Gold)

	Interval	Original Assay	Check Assay
DH101	70-75	.018	.020
	90-95	TR	R
	100-105	.257	.254
	110-115	.356	.360
	120-125	.103	.102
	145-150	.070	.064
DH100	15-20	.225	.230
DH68	5-10	.05	.04
	10-15	.02	.02
	15-20	.04	.03
	20-25	.23	.20
DH65	80-85	.23	.24
	85-90	.17	.18
	110-115	.075	.09
DH55	0-5	.095	.095
	50-55	.255	.240
	55-60	.195	.190
	60-65	.185	.175

	Interval	Original Assay	Check Assay
DH53	40-45	.125	.145
	55-60	.130	.135
	75-80	.095	.100
	110-115	.110	.105
	235-240	TR	TR
DH49	60-65	.070	.082
DH38	60-65	.105	.130
DH36	25-30	.112	.115
DH24	20-25	.175	.170
	MEAN	.1301	.1299
STANDARD DEV.		.0885	.0894

Source of Data:
Homestake Assay Logs...

V ORE RESERVES

A. Definitions of Reserves

For purposes of this report 'definitions for reserves' are taken directly from items 17A of Form S18 (Securities Act Forms) as follows:

1) Reserve; that part of a mineral deposit which could be economically and legally extracted or produced at the time of the reserve determination.

2) Proven Reserves; Reserves for which (a) quantity is computed from dimensions revealed in outcrops, trenches, workings, or drill holes; grade and or quality are computed from results of detailed sampling and

   (b) the sites for inspection sampling and measurement are spaced to closely and the geologic character is so well defined that size, shape, depth, and mineral content of reserves are well established.

3) Probable Reserves; Reserves for which quantity and grade, and/or quality are computed from information similar to that used for proven reserves, but the sites for inspection sampling and measurement are further apart or are otherwise less adequately spaced. The degree of assurance although lower than that of Proven Reserves is high enough to assume continuity between points of observation.

B. Method of Calculation

Reserves were computed by the polygonal method, however, the polygons are modified where they are influenced by faults that are interpreted from the drill hole data and some surface evidence. The polygonal method makes the basic assumption that the area of influence of a drill hole extends half way to the next adjacent hole. Individual assays from the holes are compiled into 10 foot bench composite assays. The individual bench composites are shown on the Drill Hole Assay logs in Appendix I. Homestake 10' composites from their computer printout are also noted on the Drill hole Assay logs. It should be noted that a few of Homestakes numbers are slightly in error. For instance see DH38 Bench 6920-6930, Homestakes composite assay is .066 while the hand calculated composite assay is .048. Areas of individual polygons were determined by the use of a planimeter. Planimeter notes are included in Appendix III. Areas of carbonaceous material were excluded from the individual polygons and areas with trace amounts of carbon indicated as mixed zones are reported separately in the ore reserve figures. Map 6 is an isopach map showing the thickness of mixed zone. Map 7 shows the elevation contours on top of the mixed zone and Map 8 shows the elevation contours on top of the carbon zone. These figures were used in interpreting the carbon and mixed carbon zones on the polygons.

C. Tonnage Factor

A tonnage factor of 12.73 cu. feet per dry short ton were used in the ore reserve evaluation. This figure is based on specific gravity determinations made in the Degerstrom Laboratory of 10 separate samples of drill core.

D. Dilution

This ore reserve evaluation does not include any figures for dilution. Dilution is not anticipated to be a great problem because adjacent mineralization will usually contain some gold. However, great care will be required to control dilution from carbonaceous material since carbonaceous material would cause problems in the leach piles.

E. Recoverable Reserves

The total reserves reported in this analysis are 578,330 tons grading .087 ounces per ton gold. This should be rounded off to 578,000 tons at the same grade to better reflect the precision of the estimate. All of this geologic reserve may not be recoverable due to high stripping ratios in the deeper portions of the rserve. Minable reserves were calculated by Homestake in 1981 and by Richard Stager, Vice President of Engineering, N. A. Degerstrom, Inc., in 1986. Table 2 summarizes these reserves with the reserves resulting from this evaluation. According to this comparison, the minable reserves would drop by about 14% following Stager's pit plan and by 2% following Homestakes pit plan. At this point it would be reasonable to assume that approximately 10% of the geologic reserve would not be recoverable during the mining process so that the geologic reserve of 578,000 tons would be equivalent to a minable reserve of approximately 520,000 tons grading .087 ounces of gold per ton.

Bench scale metallurgical testing has indicated a dramatic difference in leachability of carbonaceous ore versus the oxidized ore at Toiyabe. Recoveries from carbonaceous ore average from zero to 10 percent. Non-carbonaceous ore produce recoveries ranging from 50 to 97% and average about 70% for the ore deposit and there appears to be a general inverse ratio of recovery to the amount of carbon. Homestake performed some shake leach tests which were not definitive but they do provide a relative gauge of leachability and Homestake's metallurgists estimate that a probable recovery rate of at least 60% can be obtained from non-carbon ore by cyanide heap-leaching. The results of the shake-leach tests are shown on the Assay Logs in Appendix I. Great care was taken in establishing a contact between carbonaceous and oxide material in this ore reserve estimate. Care was also taken to point out the existance of so called mixed carbonaceous and oxide, i.e. oxide ore with trace to small amounts of carbonaceous matter. This mixed material is relatively high grade, it would appear advisable that such material would be handled in separate heaps from those containing the clean oxide material during the leaching process.

F. Summary of Reserves

The following table summarizes the reserves computed in this evaluation -- it should be noted that a total of 9,073 tons grading .124 ounces per ton gold of mixed ore containing a trace of carbonaceous material are included in the Proven Portion of the ore reserve.

TABLE 4

PROVEN & PROBABLE

Reserves by Benches (dst)

(cutoff 0.03 oz. per ton)

BENCH	Proven Tons	Proven Grade Oz./Ton	Proven Total Oz. Gold	Probable Tons	Probable Grade oz/Ton	Probable Total Oz.Gold
7030-40				9452	.087	822
7020-30				18227	.157	2869
7010-20	20444	.075	1541	28919	.144	4173
7000-10	16064	.082	1324	20135	.053	1067
6990-7000	3024	.042	127	35091	.070	2460
6980-90	32050	.060	1922	8327	.094	783
6970-80	46466	.116	5390	23056	.144	3321
6960-70	44817	.071	3181	23370	.117	2741
6950-60	22767	.075	1711	15043	.173	2605
6940-50	30164	.094	2820	22349	.068	1513
6930-40	32483	.083	2644	14729	.073	1071
6920-30	32836	.066	2172	15161	.045	675
6910-20	16458	.061	1005	22349	.043	963
6900-10	9427	.043	405	15122	.068	1021
TOTAL	307,000	.079	25242	271,330	.096	26084

NOTE: These reserves include 9073 tons of "mixed" ore grading 0.119 oz.gold per ton itemized by bench and drill hole polygon in table 5.

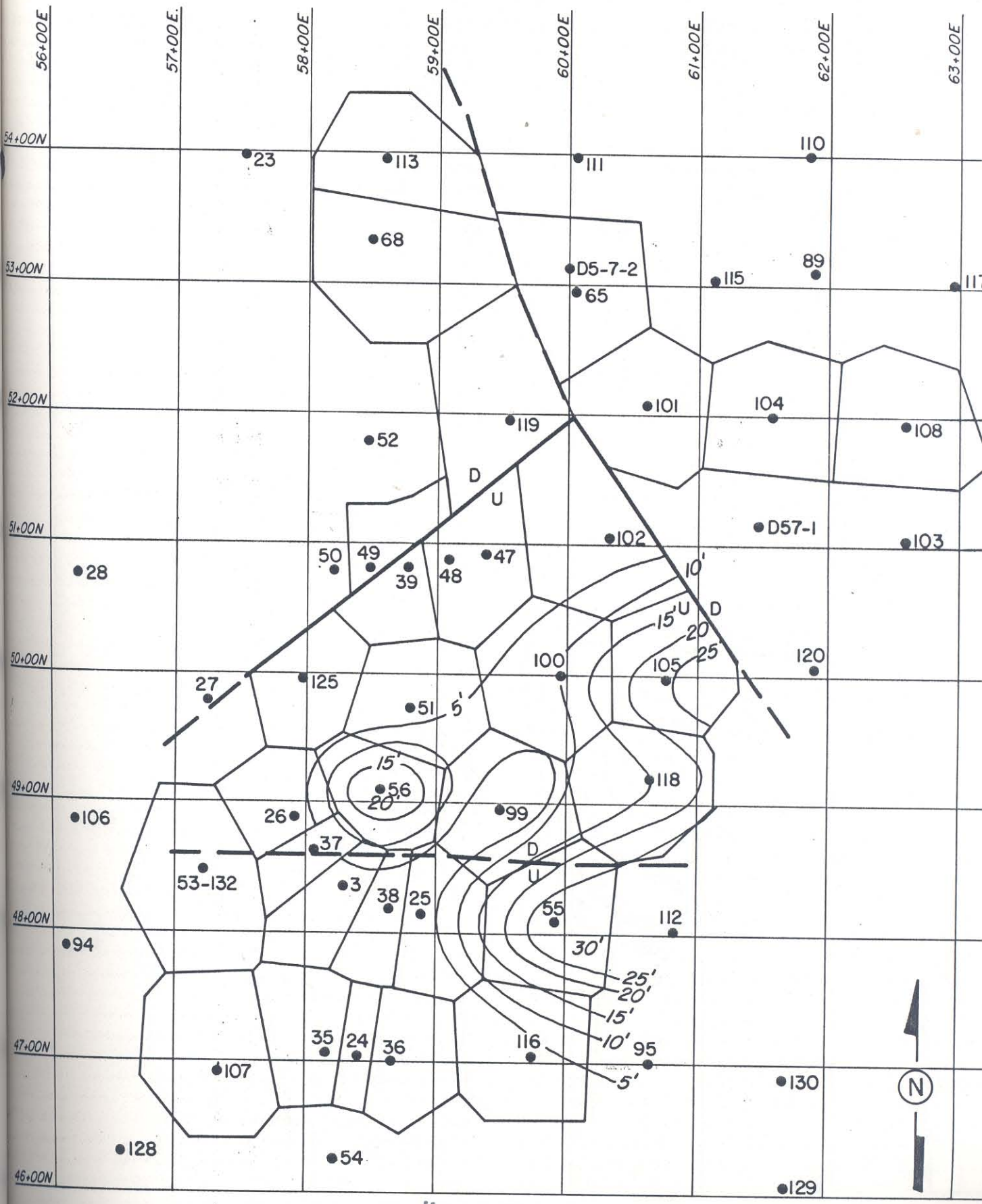
TABLE 5

Mixed (Oxidized & Trace Carbonaceous) Ore Reserves

by Benches - PROVEN (dst)

(.03 oz. per ton cutoff)

Bench	Hole #	Tons	Grade or Gold per ton	Oz.Av.
6960-6970	56	1100	.112	123
	118	2435	.104	253
6940-6950	55	1885	.057	107
6930-6940	55	2907	.167	485
6920-6930	55	746	.154	115
TOTALS		9073	.119	1083



Drill Hole

Ore Reserve Polygon

Possible Fault

6

ISOPACH MAP

MIXED CARBON
& OXIDIZED ZONE

THICKNESSES IN FEET

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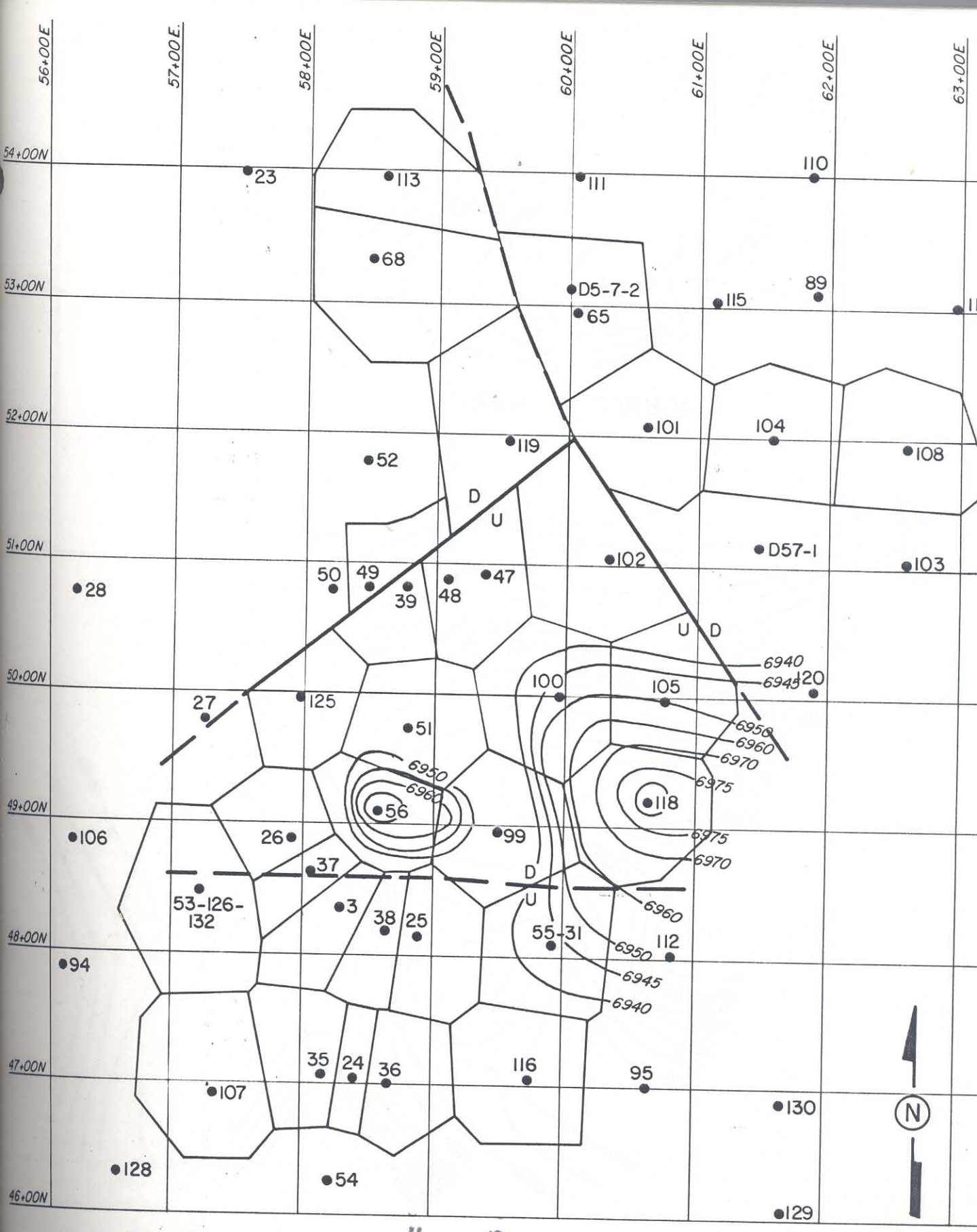
SECTION 18, T.25N, R.46E.



7

ELEVATION CONTOURS
ON TOP OF
MIXED OXIDE & CARBON
(ABOVE CARBON ZONE)

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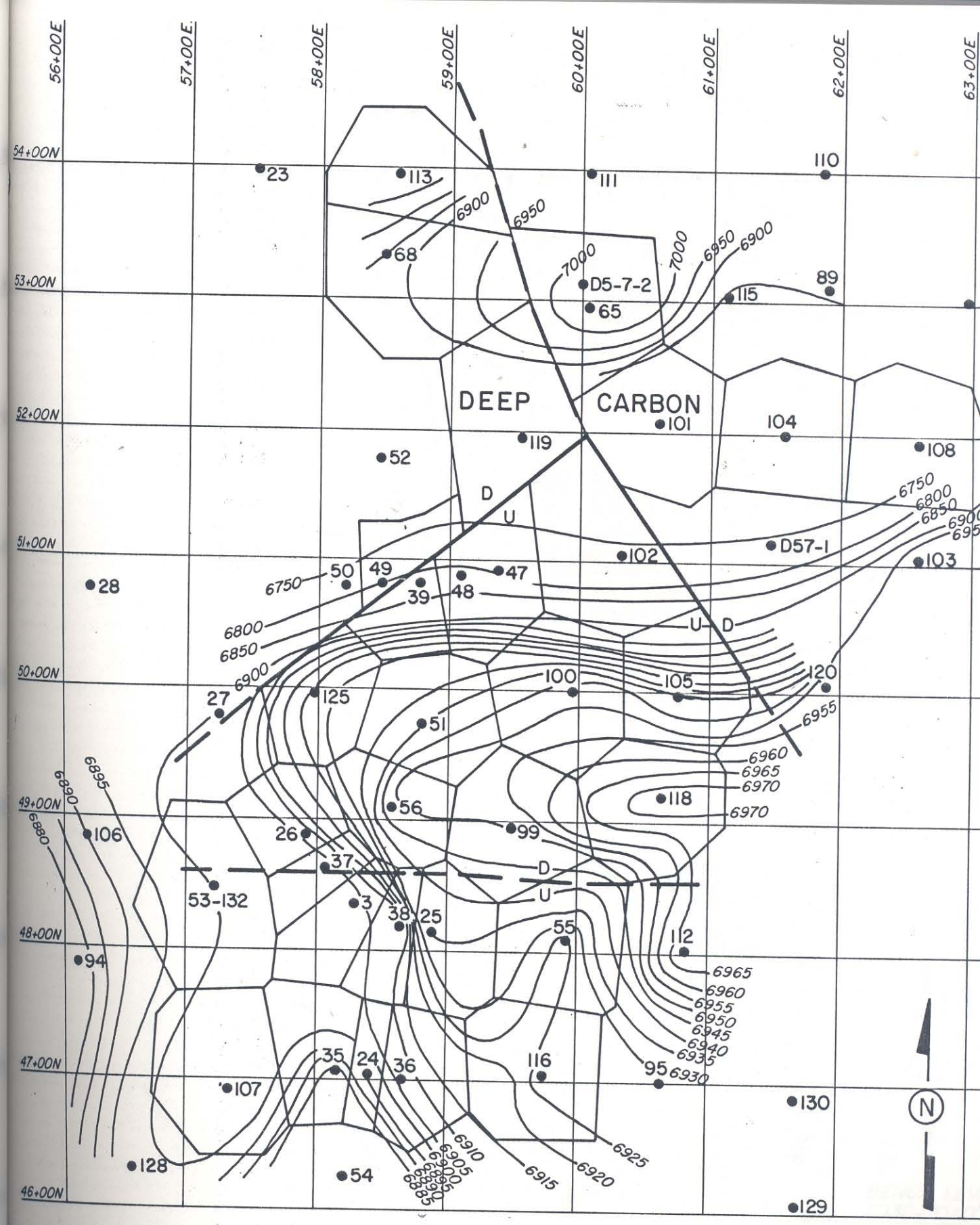
SECTION 13, T.25N, R.45E.
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D. REGA



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ELEVATION CONTOURS ON TOP OF CARBON

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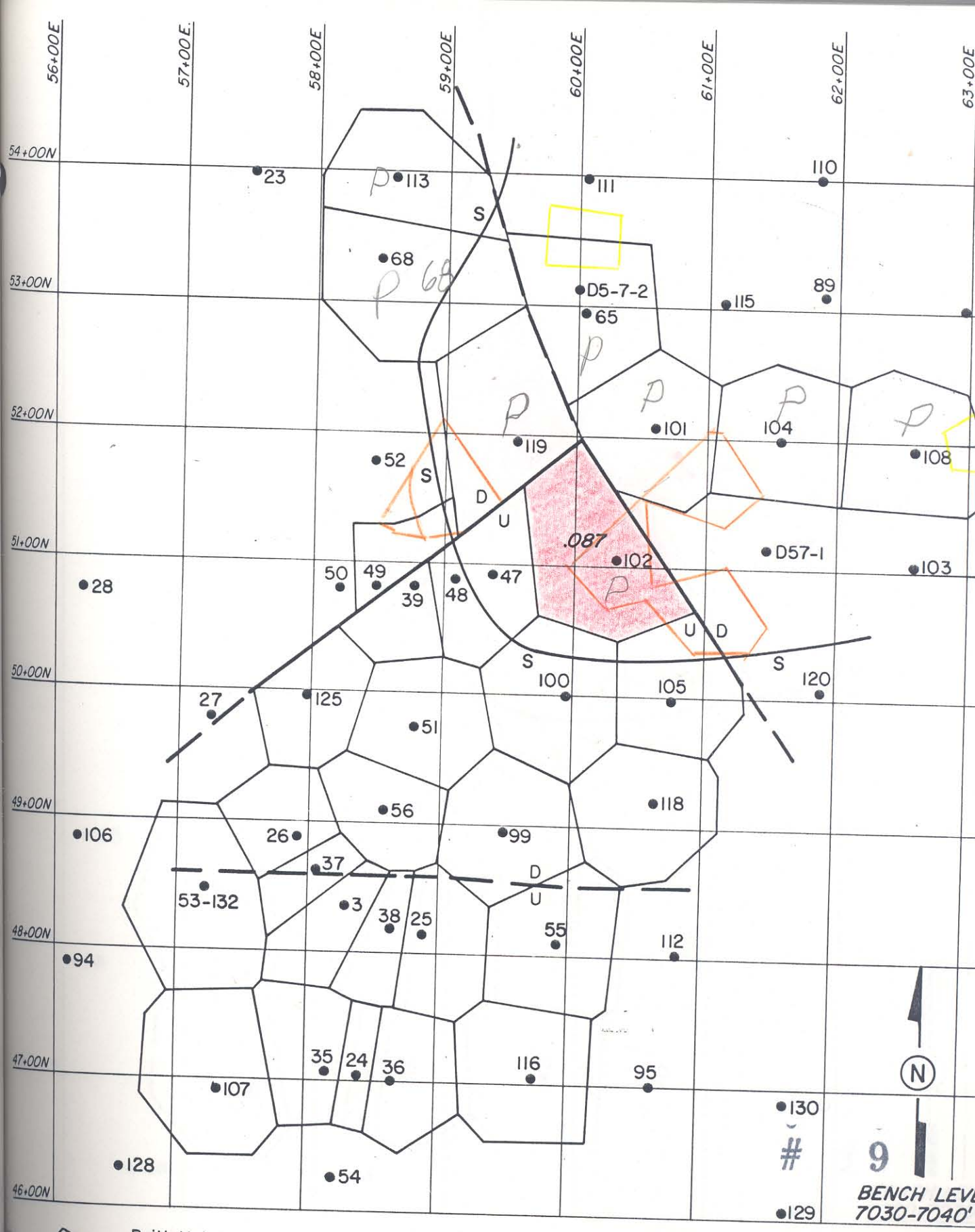

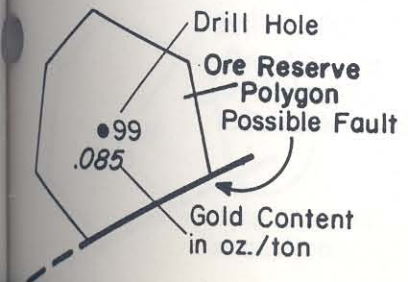

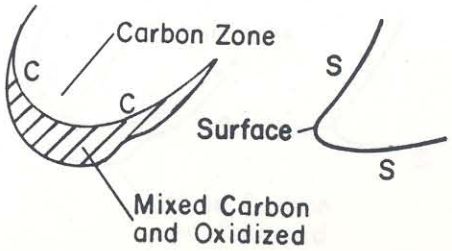

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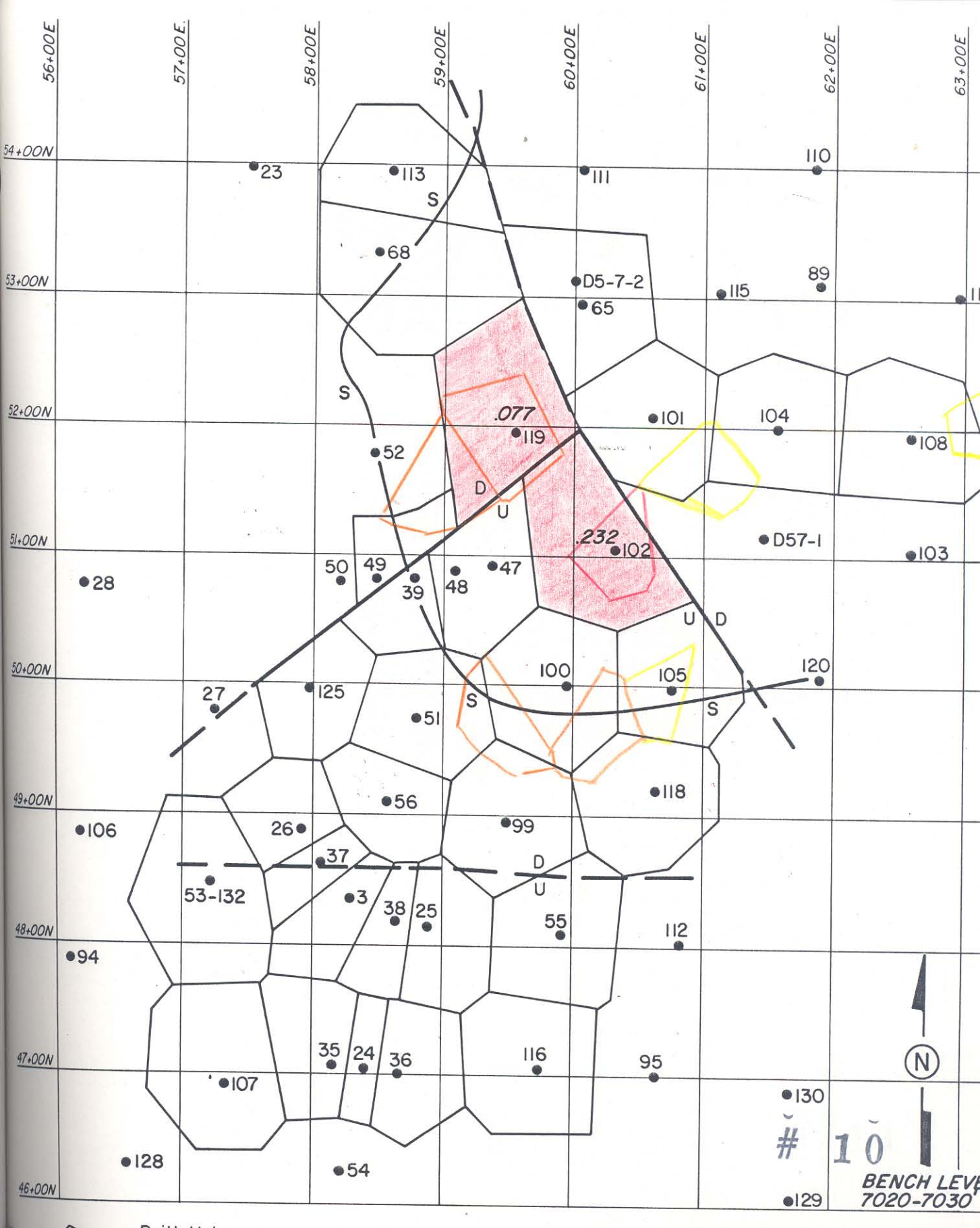

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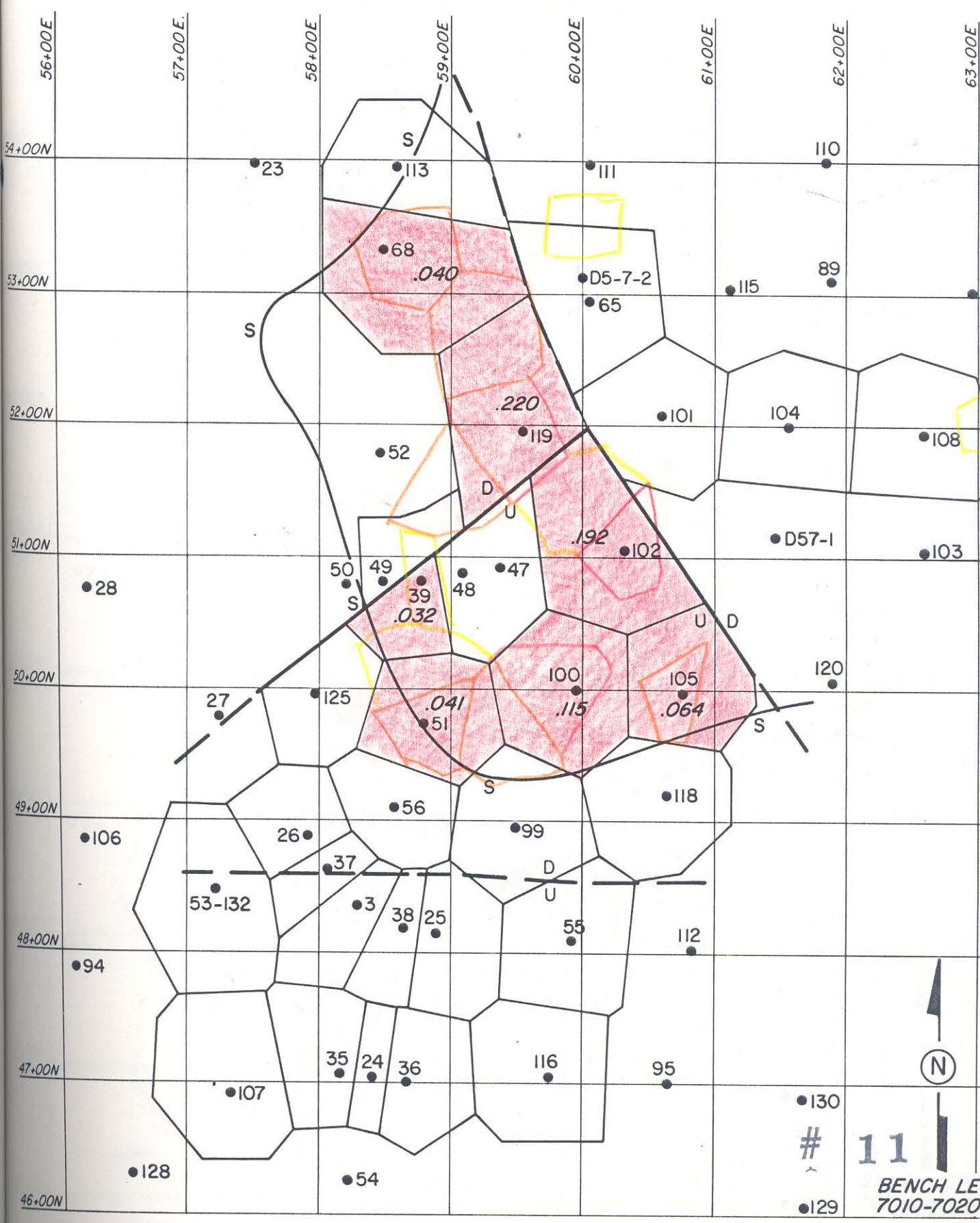

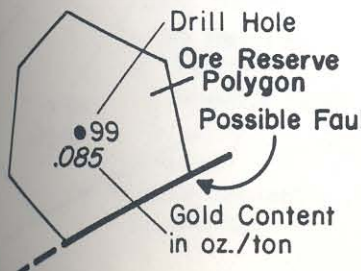

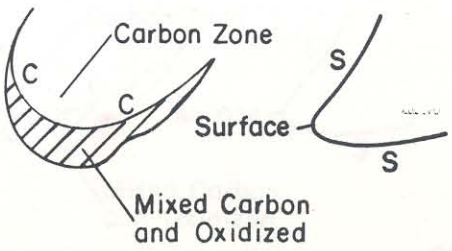

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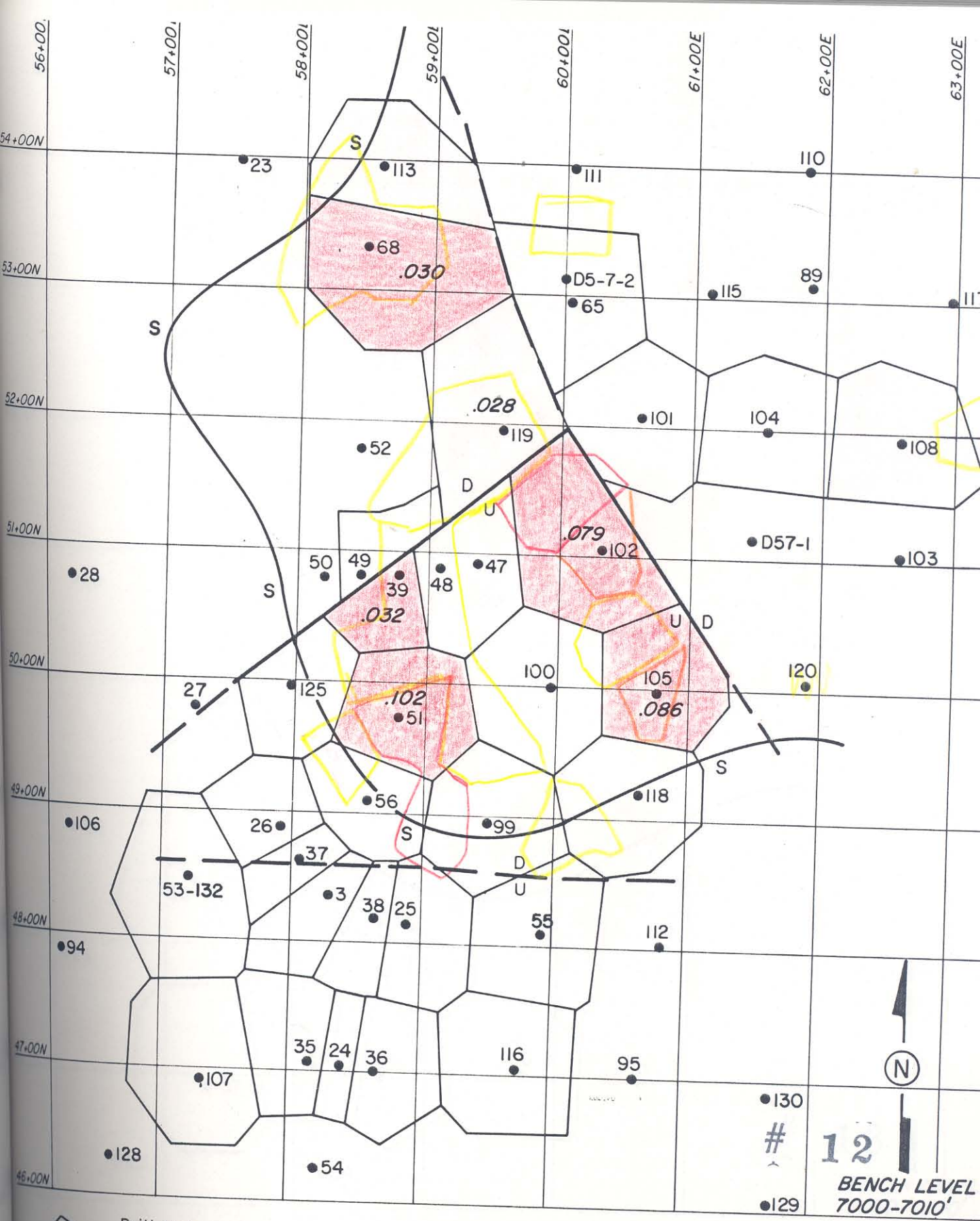

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SECTION 13, T.25N, R.45E.
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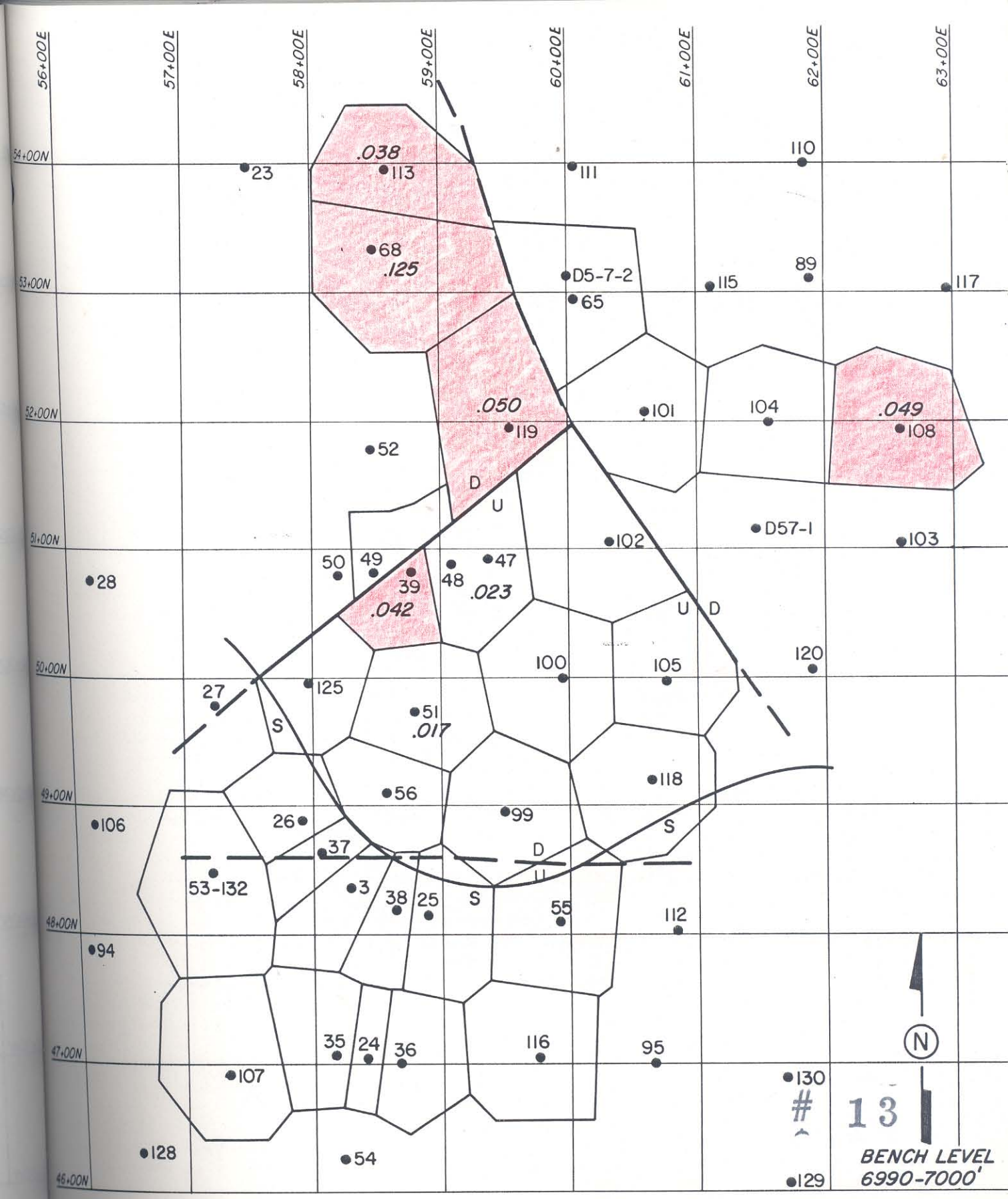
SCALE: 1"=100' MAY 1986 M.D. REGAN



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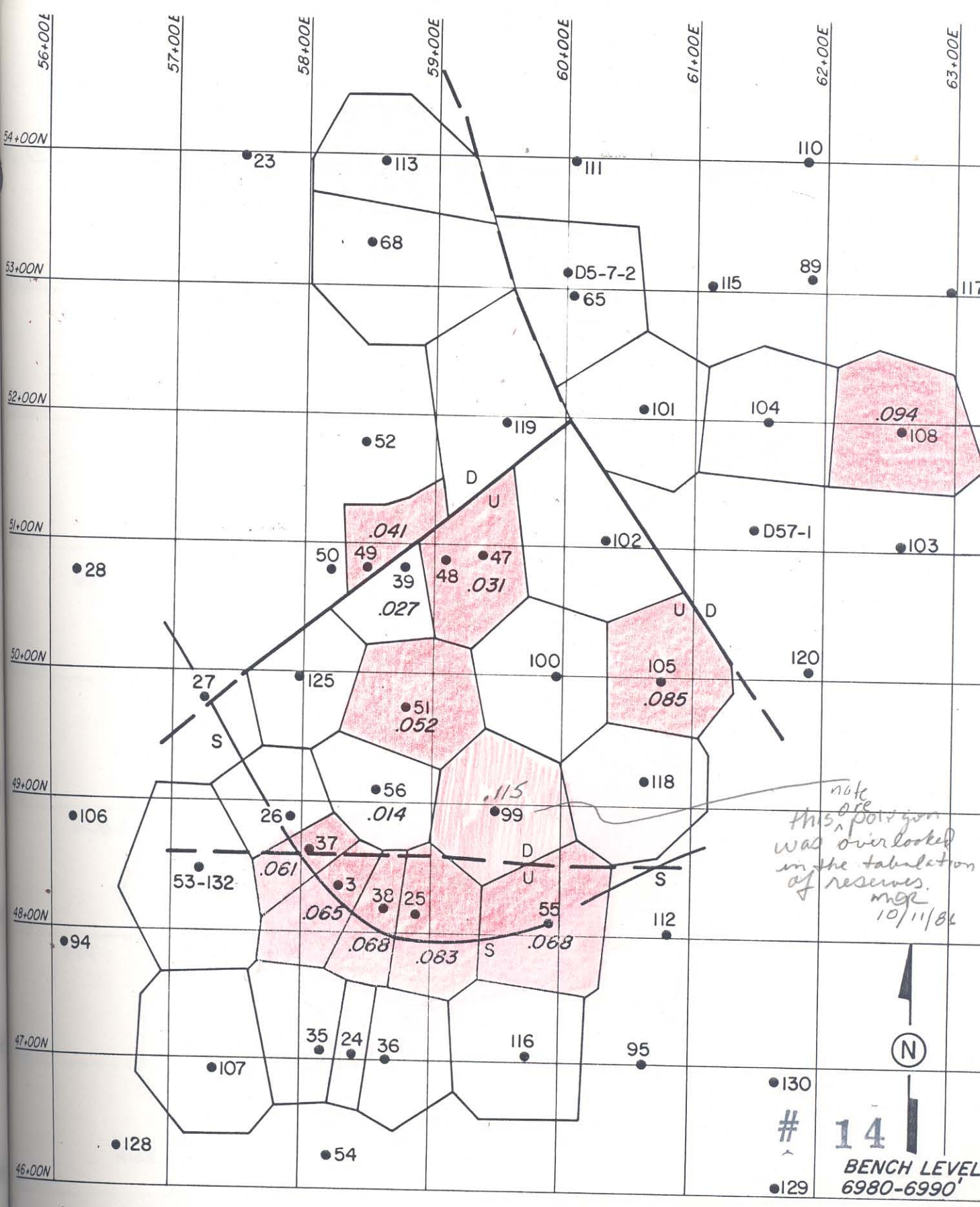
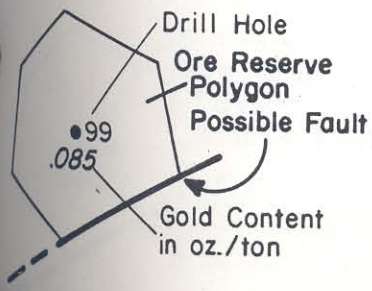
LANDER CO., NEVADA

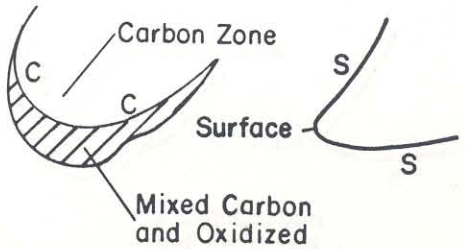
SECTION 13, T.25N, R.45E.
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D. REGAN



note ore polygon this was overlooked in the tabulation of reserves. MDR 10/11/86





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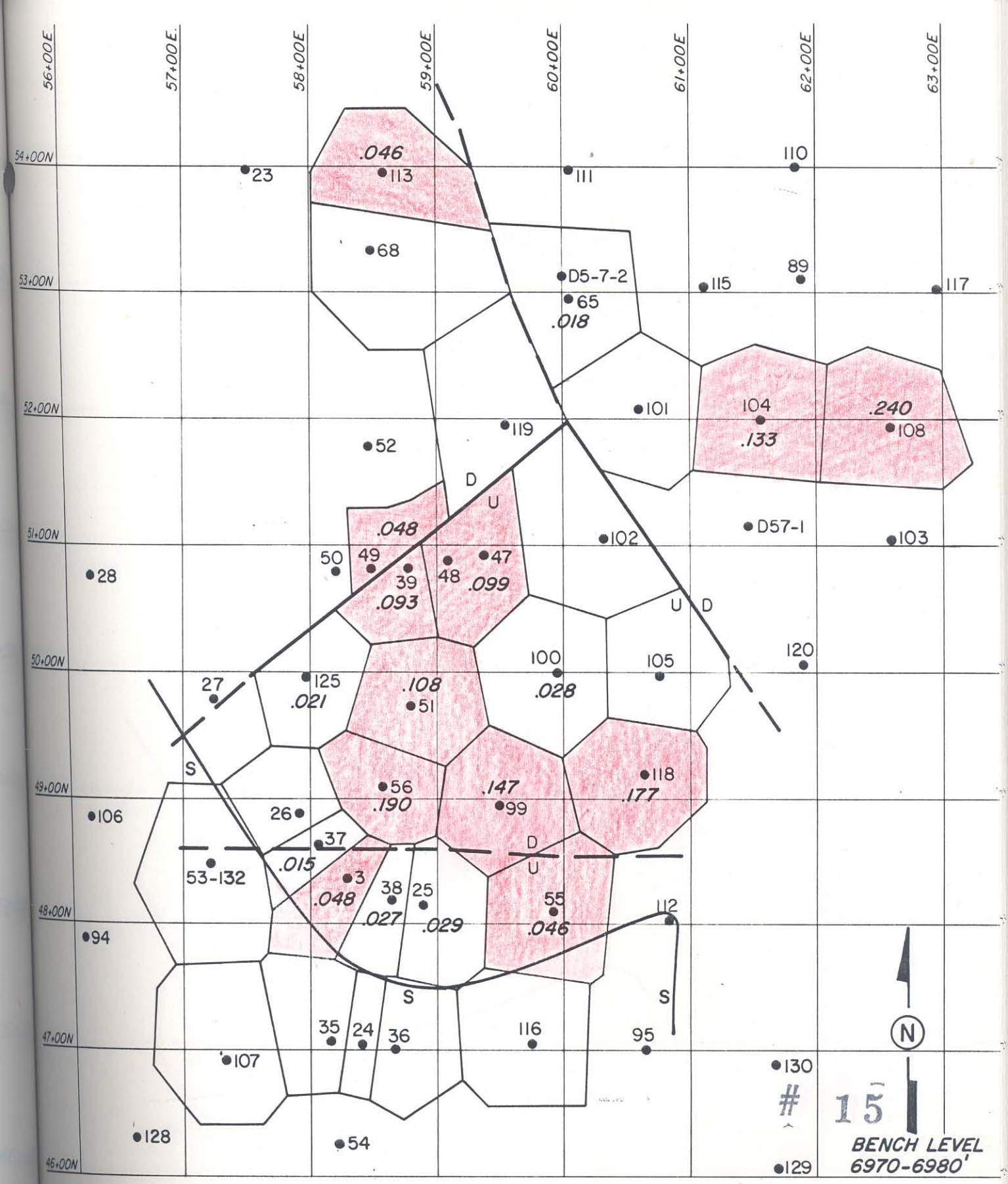

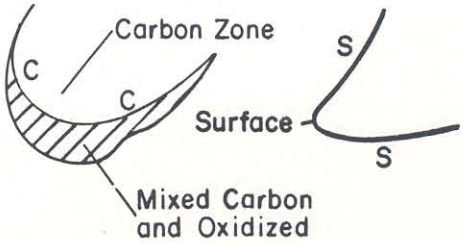

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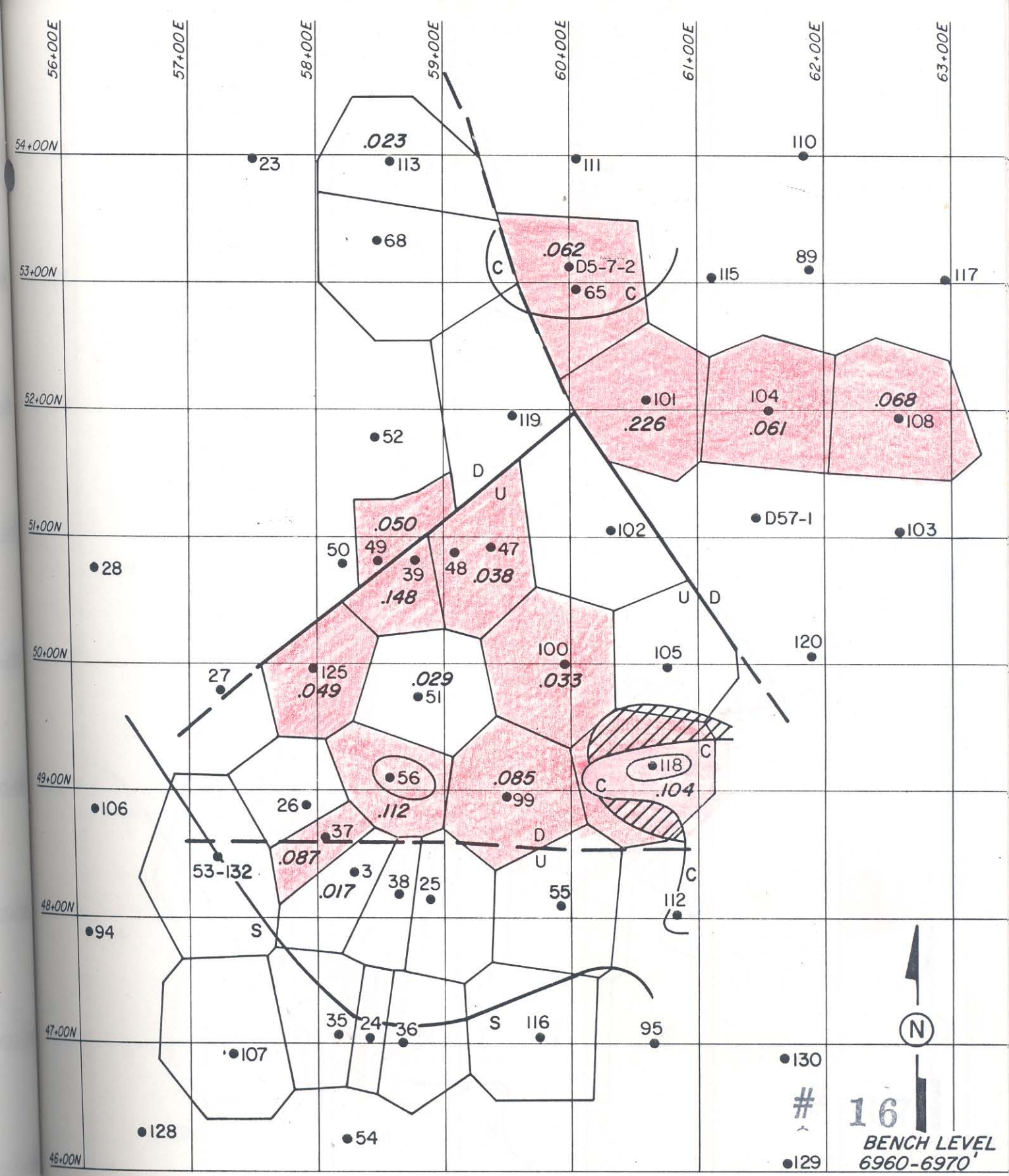

#16

Drill Hole
Ore Reserve Polygon
Possible Fault
99
.085
Gold Content in oz./ton

Carbon Zone
C
C
Surface
S
S
Mixed Carbon and Oxidized

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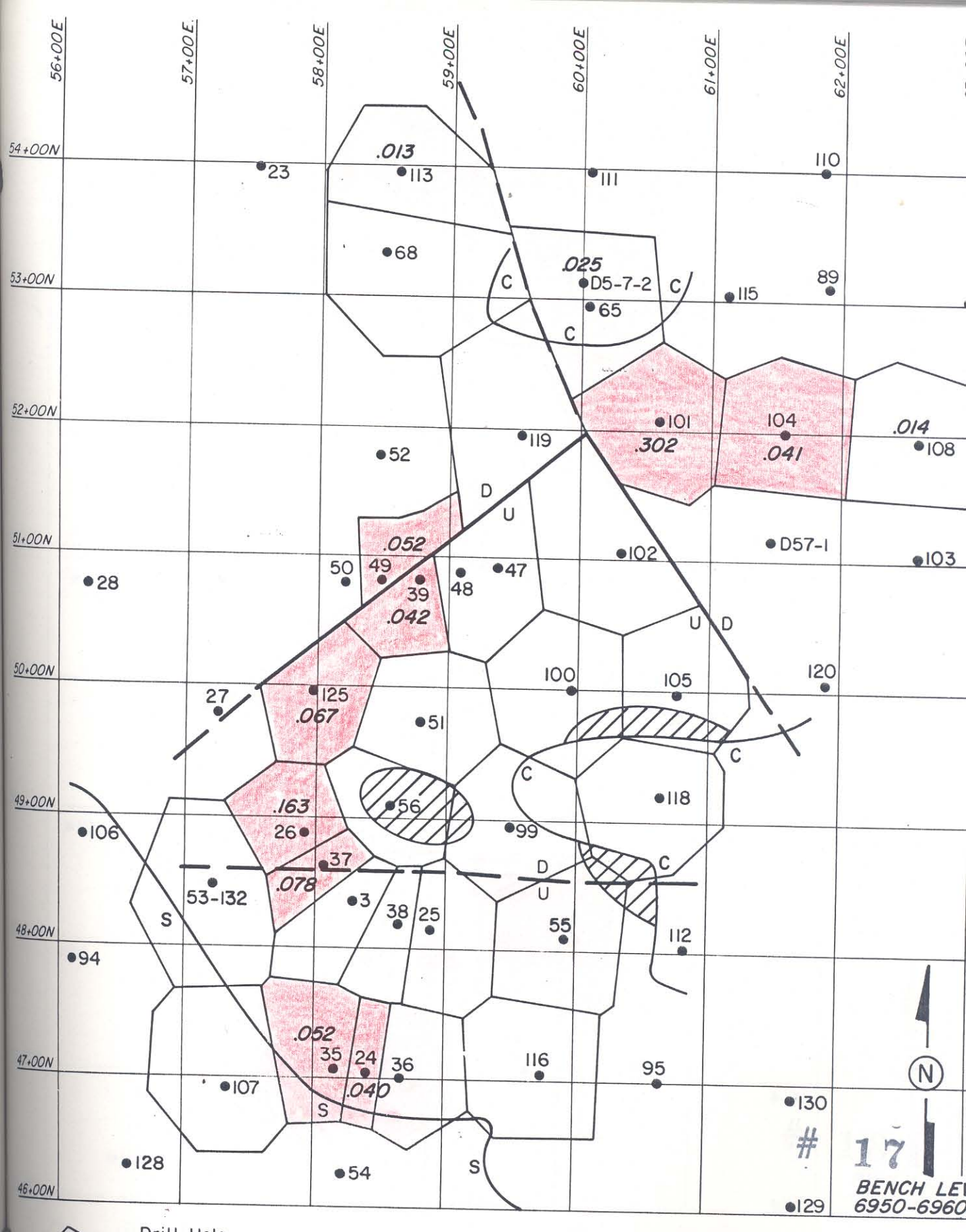
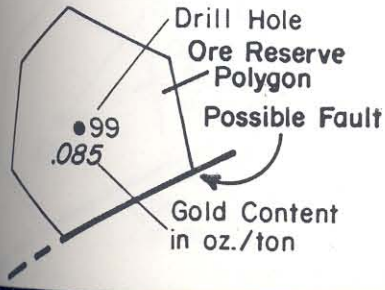
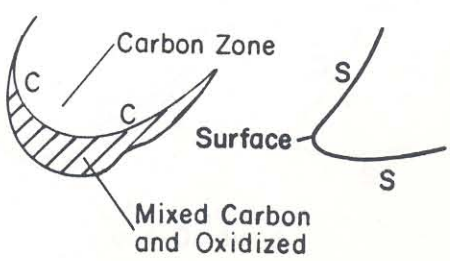
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D. REGAN







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SECTION 13, T.25N, R.45E.
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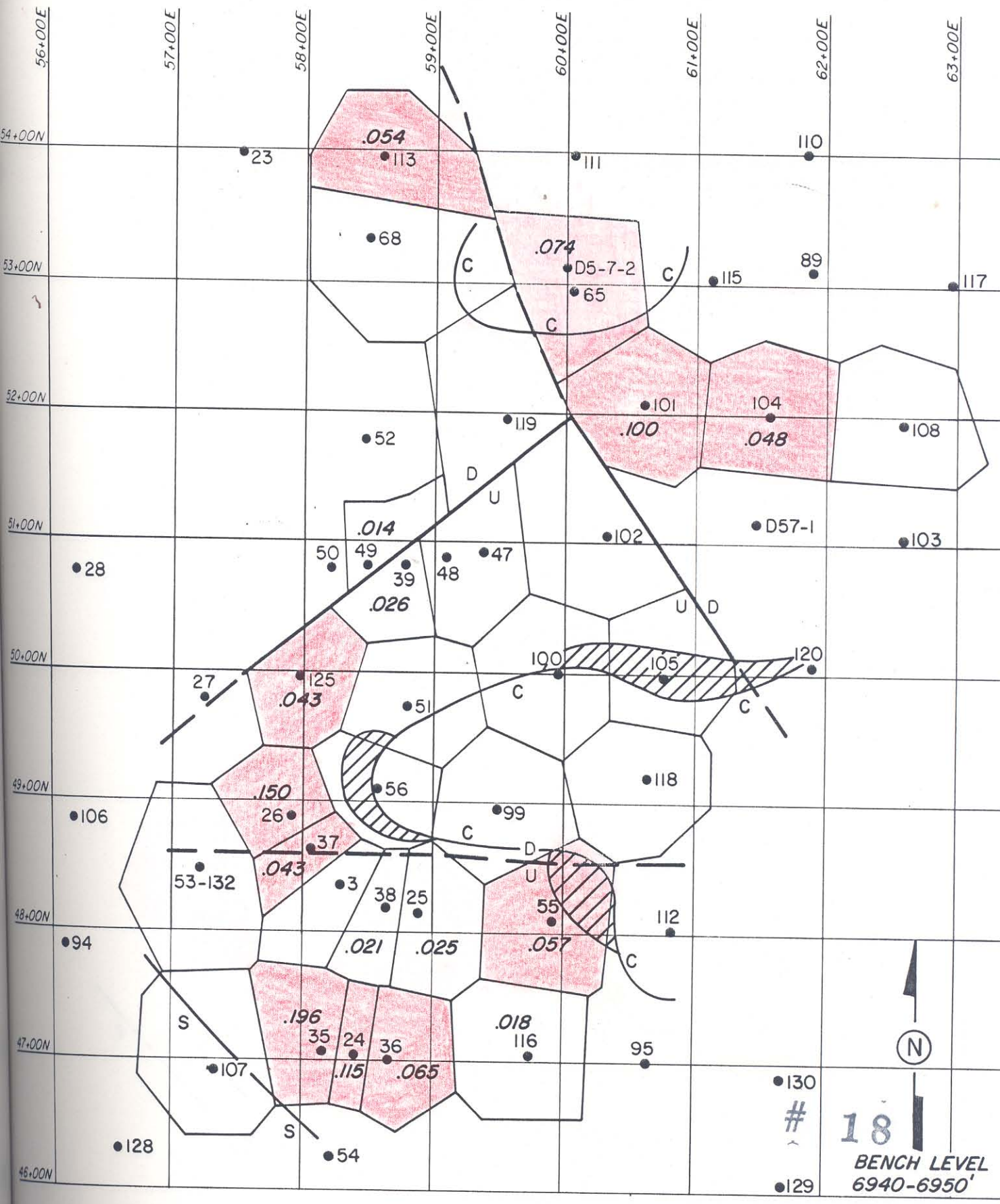

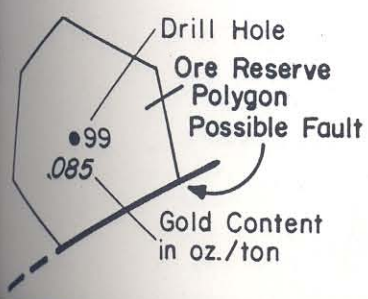

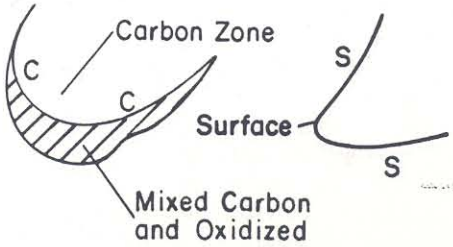

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TOIYABE PROJECT

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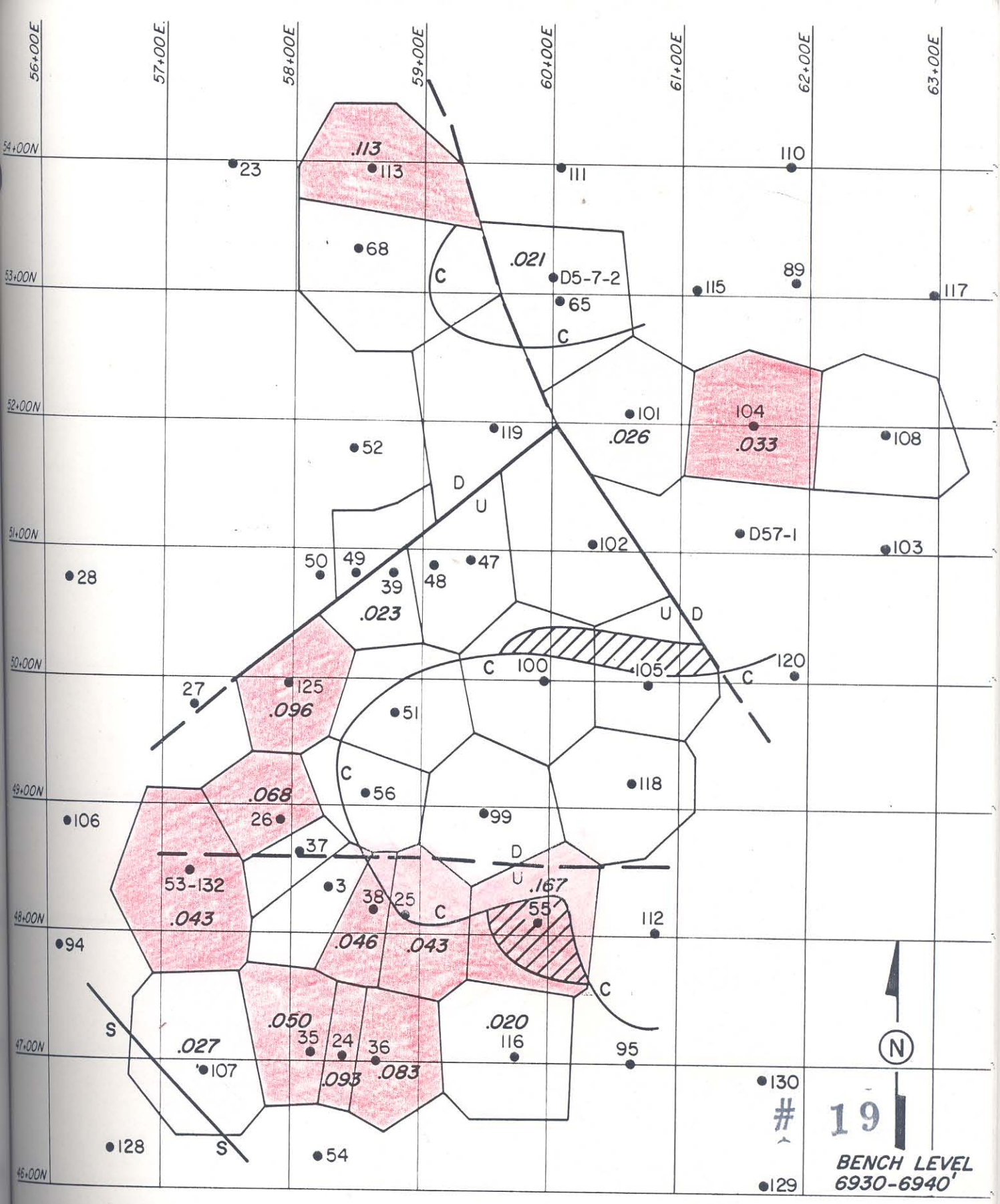

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TOIYABE PROJECT

LANDER CO., NEVADA

SECTION 13, T.25N, R.45E.
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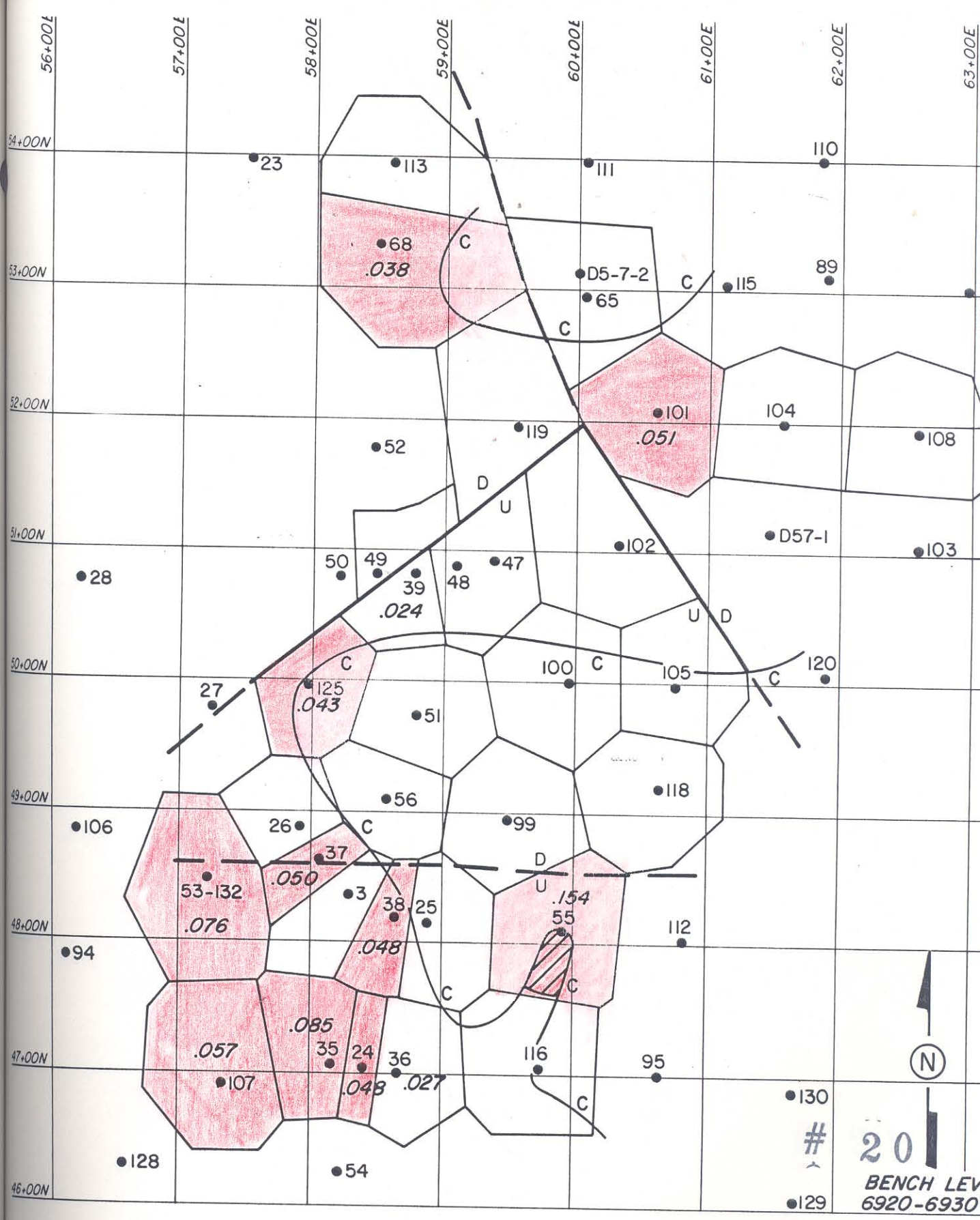

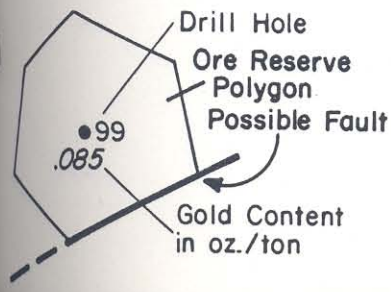

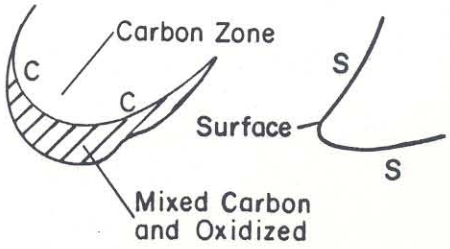

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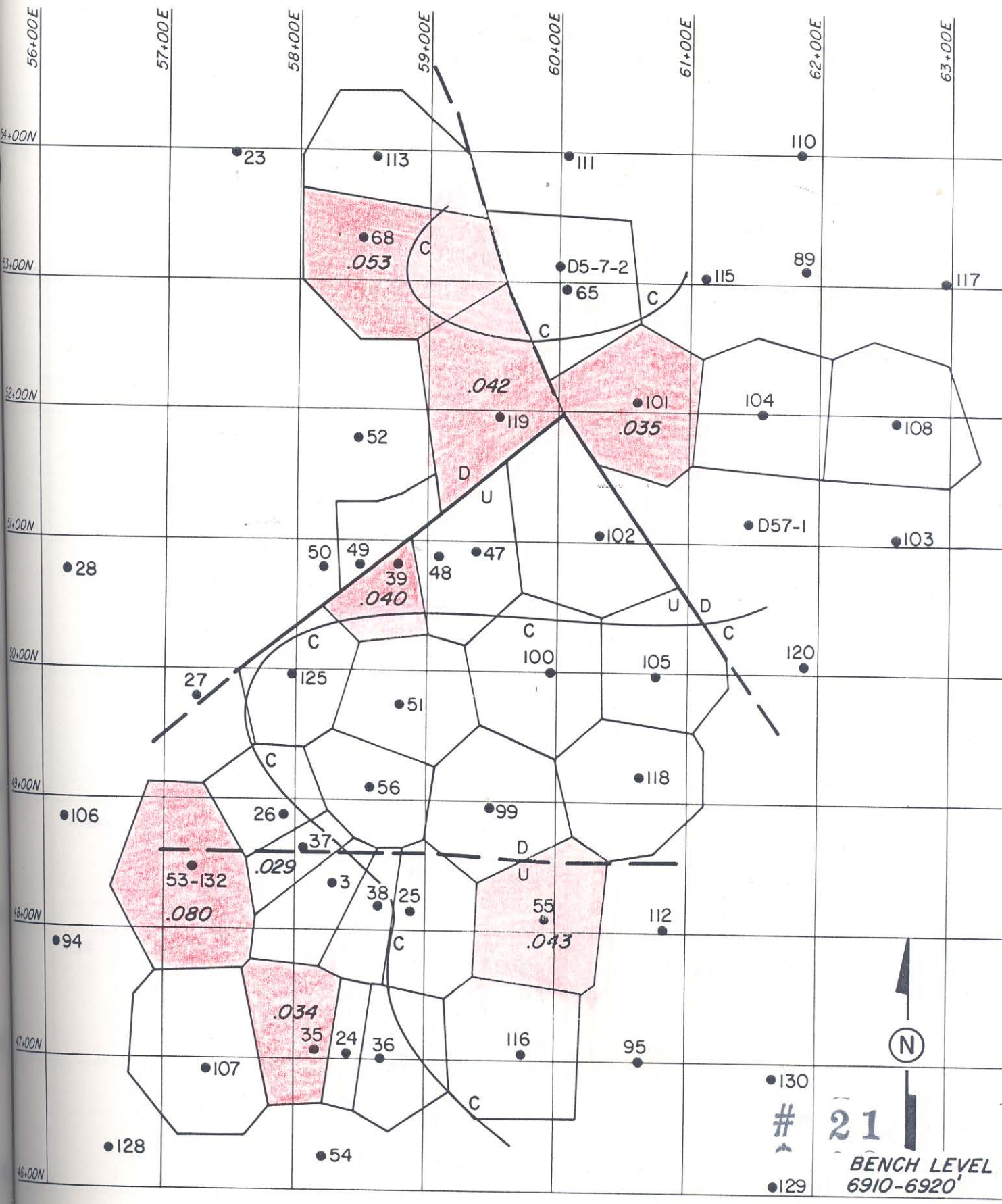
TOIYABE PROJECT

LANDER CO., NEVADA

SECTION 13, T.25N, R.45E.
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D. REGA



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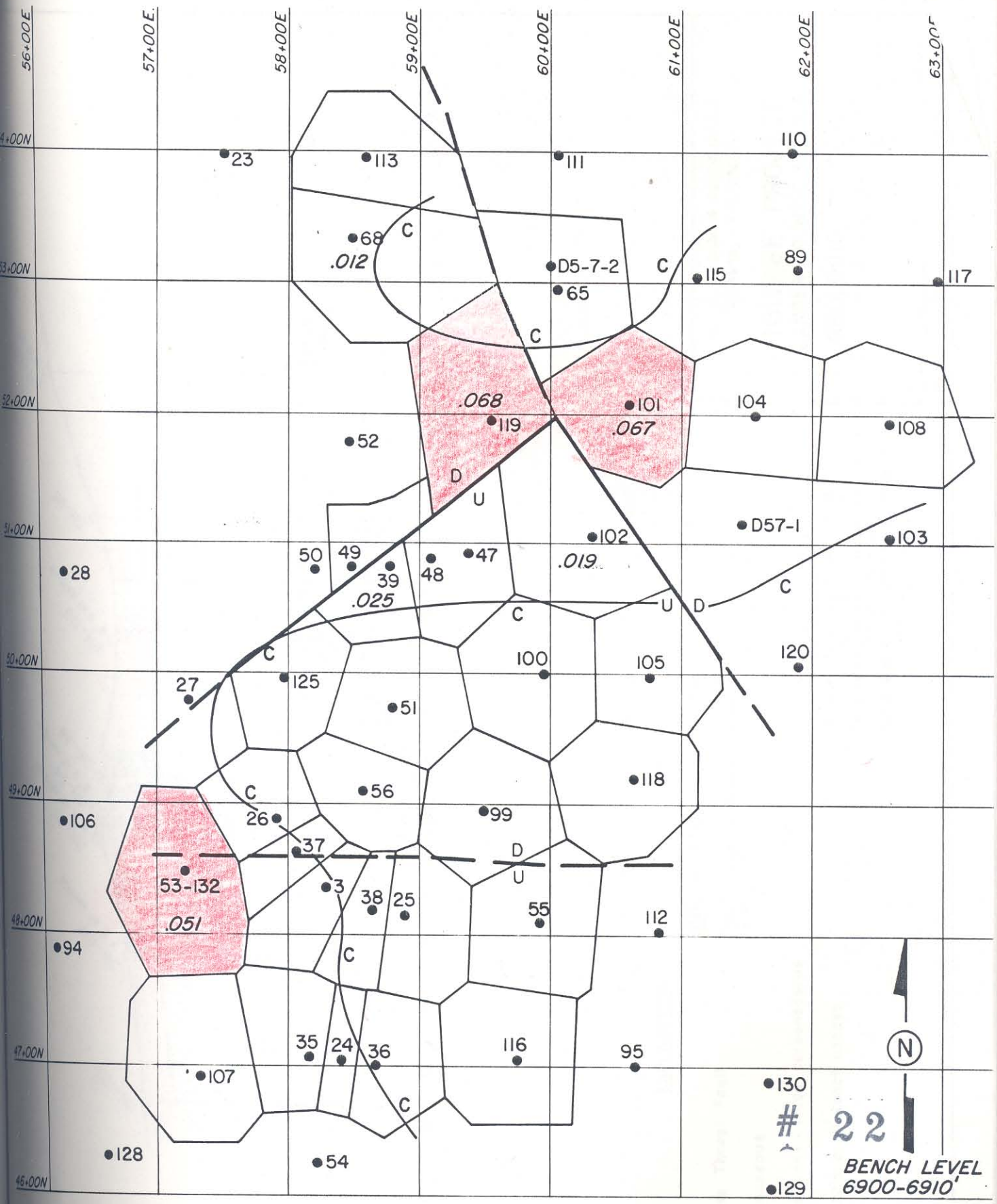
TOIYABE PROJECT

LANDER CO., NEVADA

SECTION 13, T.25N, R.45E
SECTION 18, T.25N, R.46E.

SCALE: 1"=100' MAY 1986 M.D. REGAN



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TOIYABE PROJECT

LANDER CO., NEVADA

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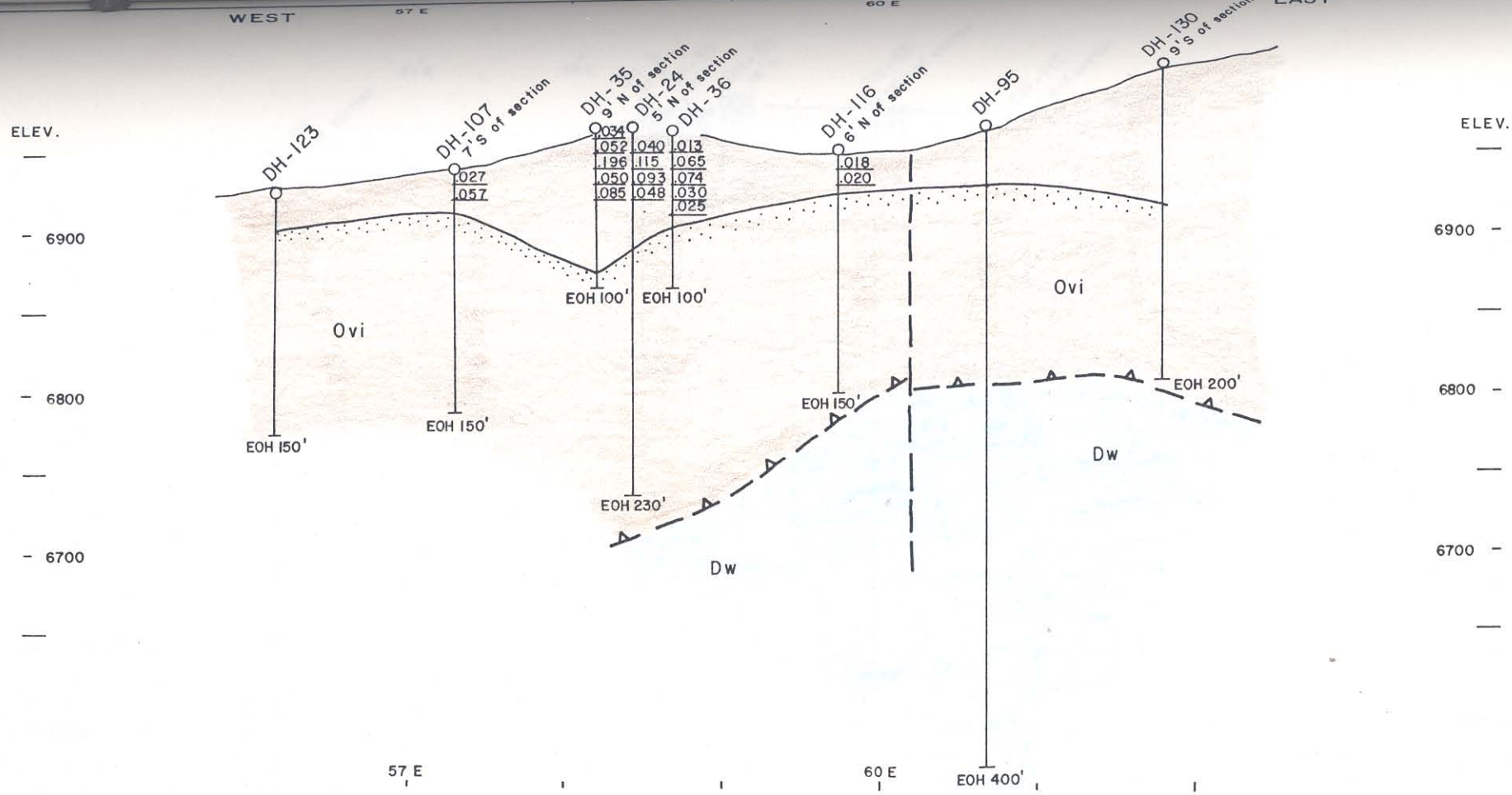

EXPLANATION

- Fault
- Roberts Thrust Fault
- Carbonaceous
- "Mixed" zone - trace carbonaceous
- DH-35 Drill hole & 10' bench assays (.051, .107, .100)
- Ovi Ordovician Vinini Formation
- Dw Devonian Wenban Formation

SOURCES OF DATA

Geology - Homestake Section, dated April 1981
Carbonaceous contact - plotted from Homestake drill logs
Bench assays - calculated from Homestake assay logs

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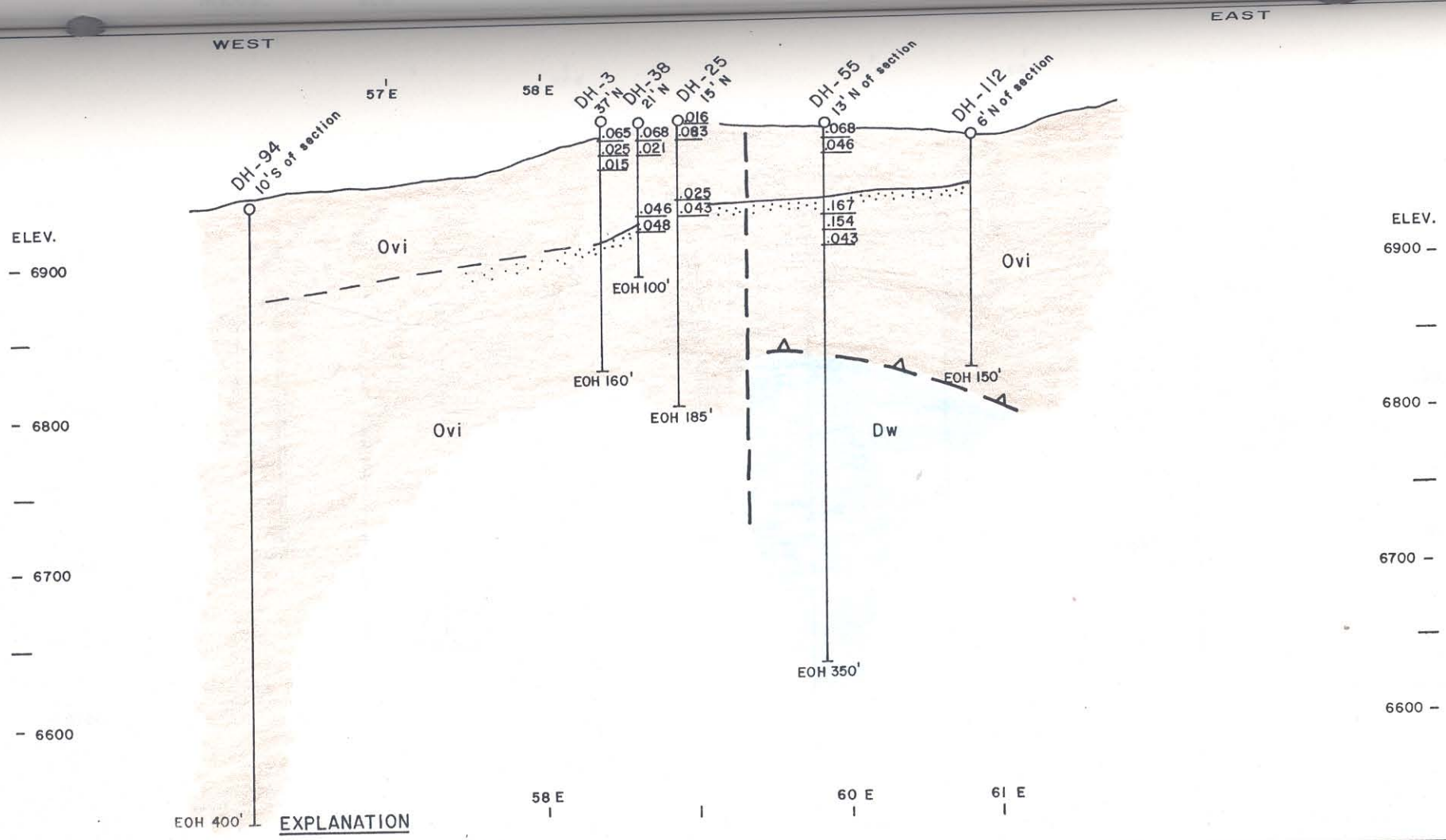
TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION
47+00 N

23

0 — 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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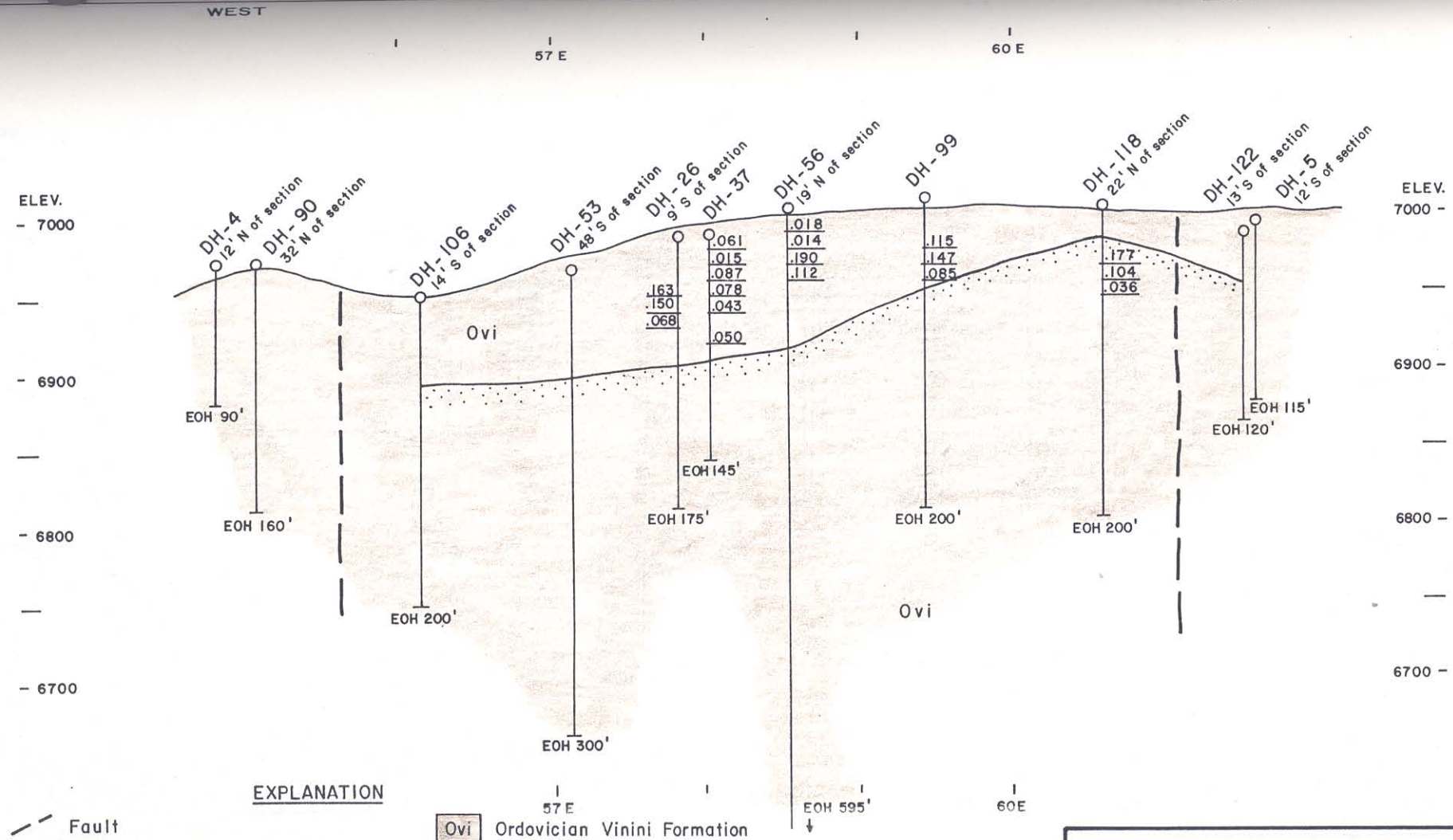
TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION
48+00N

24

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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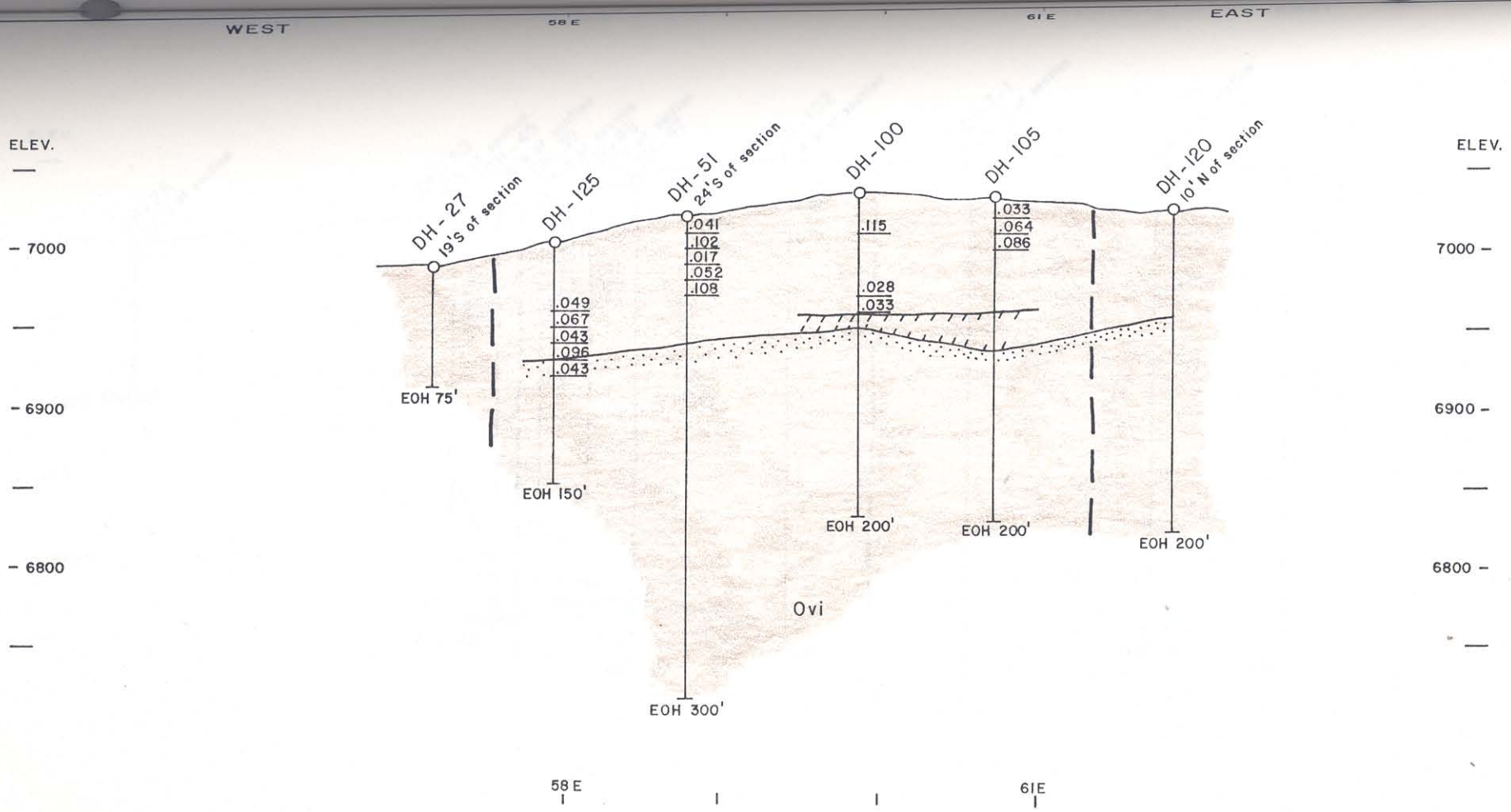
TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION
49+00N

25

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION
50+00 N

26

0 — 100 ft
SCALE 1" = 100'

M. D. REGAN
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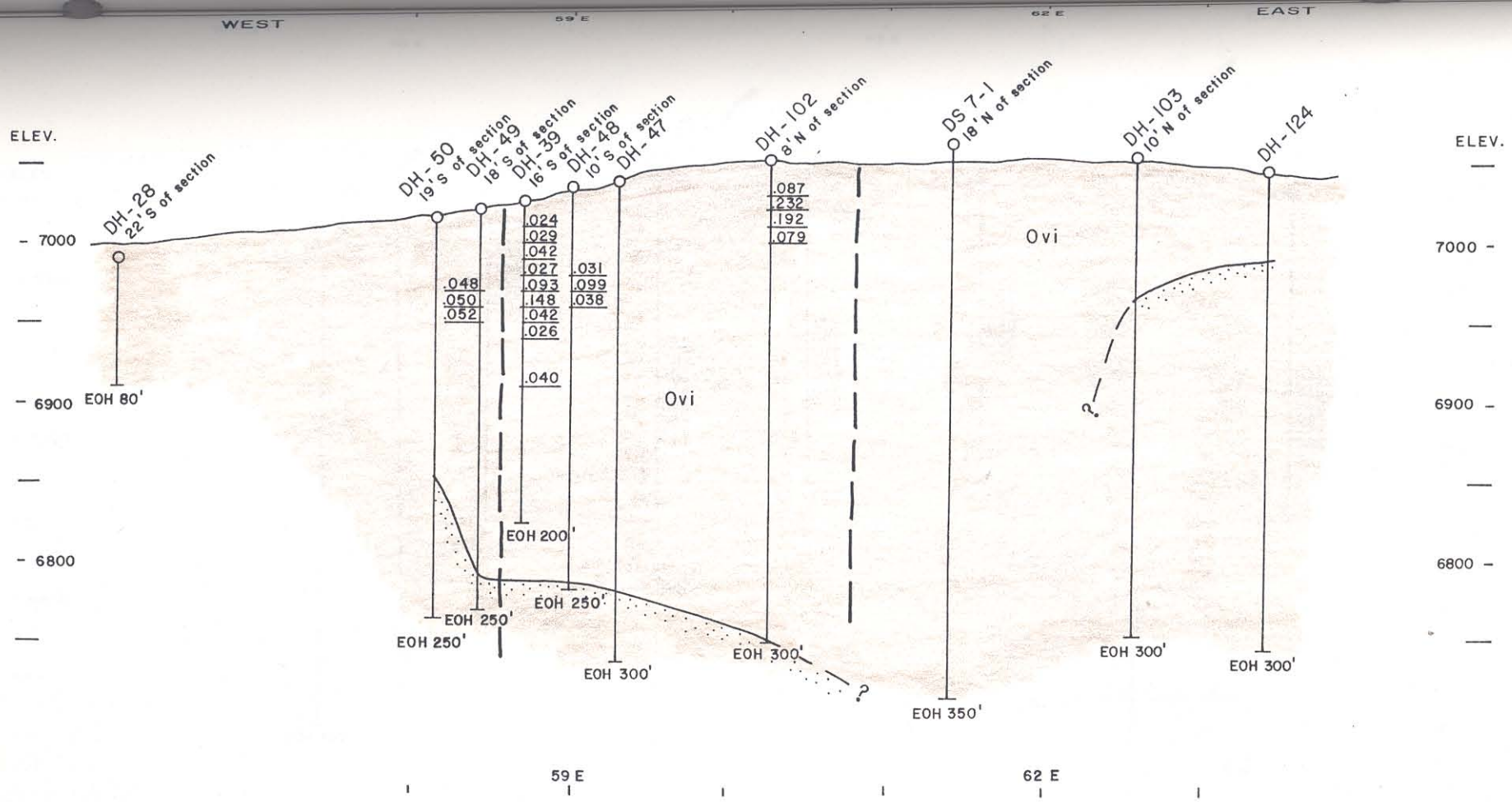

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SOURCES OF DATA

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Bench assays - calculated from Homestake assay logs

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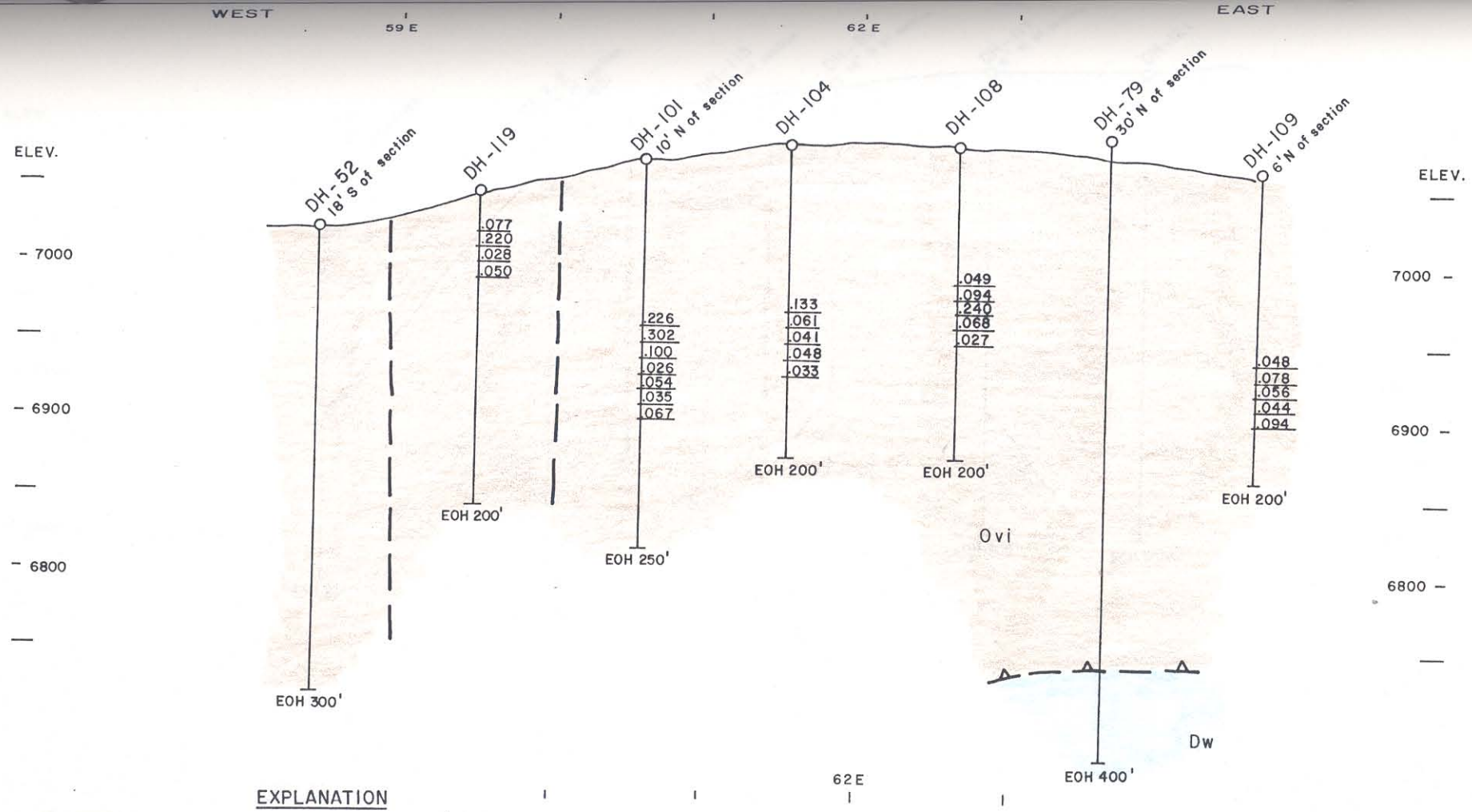
TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION 51+00 N

27

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION 52+00 N

28

0 100 ft
SCALE 1" = 100'

M. D. REGAN
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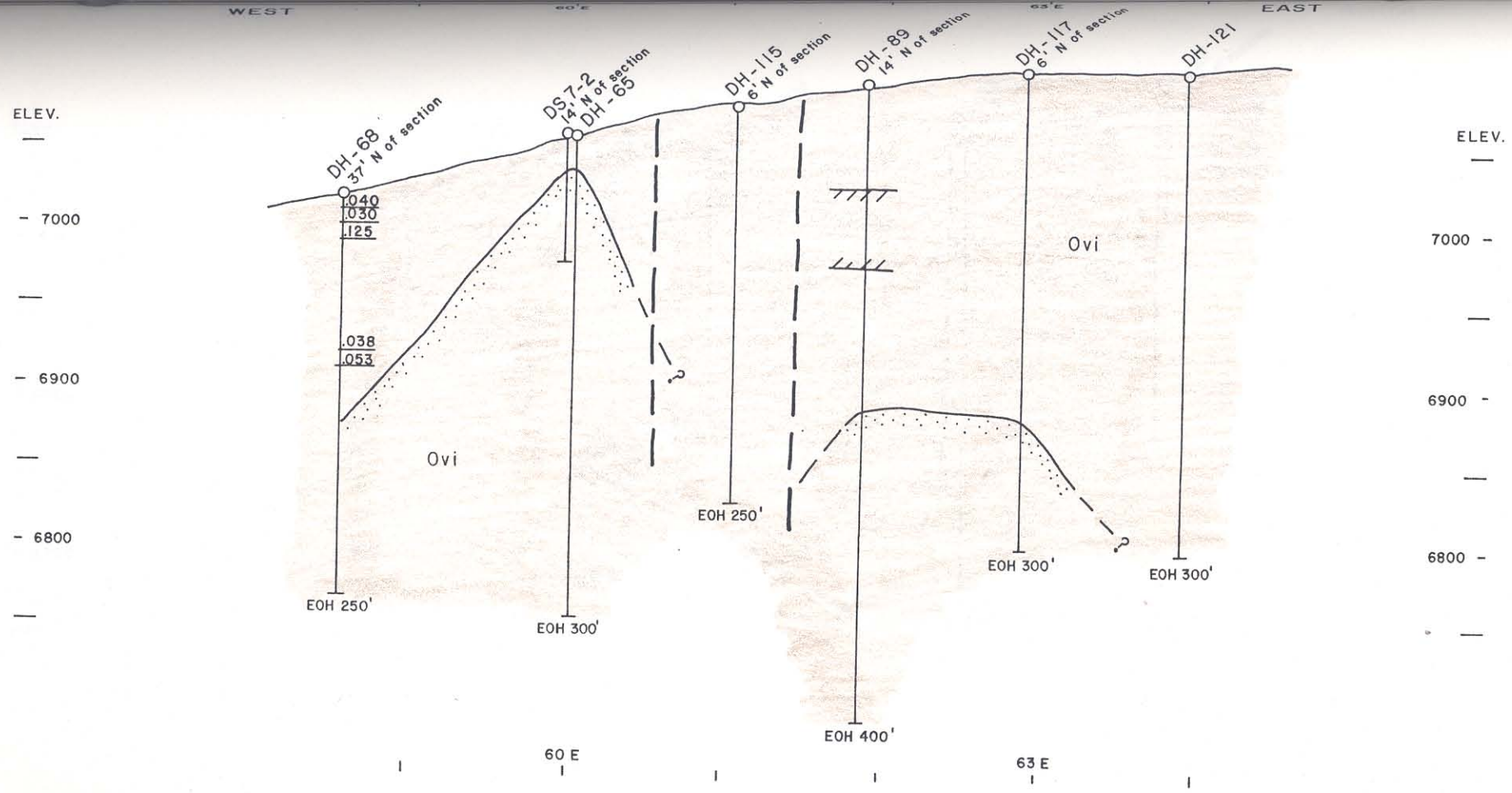

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Dw Devonian Wenban Formation

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TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION
53+00 N

29

0 — 100 ft
SCALE 1" = 100'

M. D. REGAN
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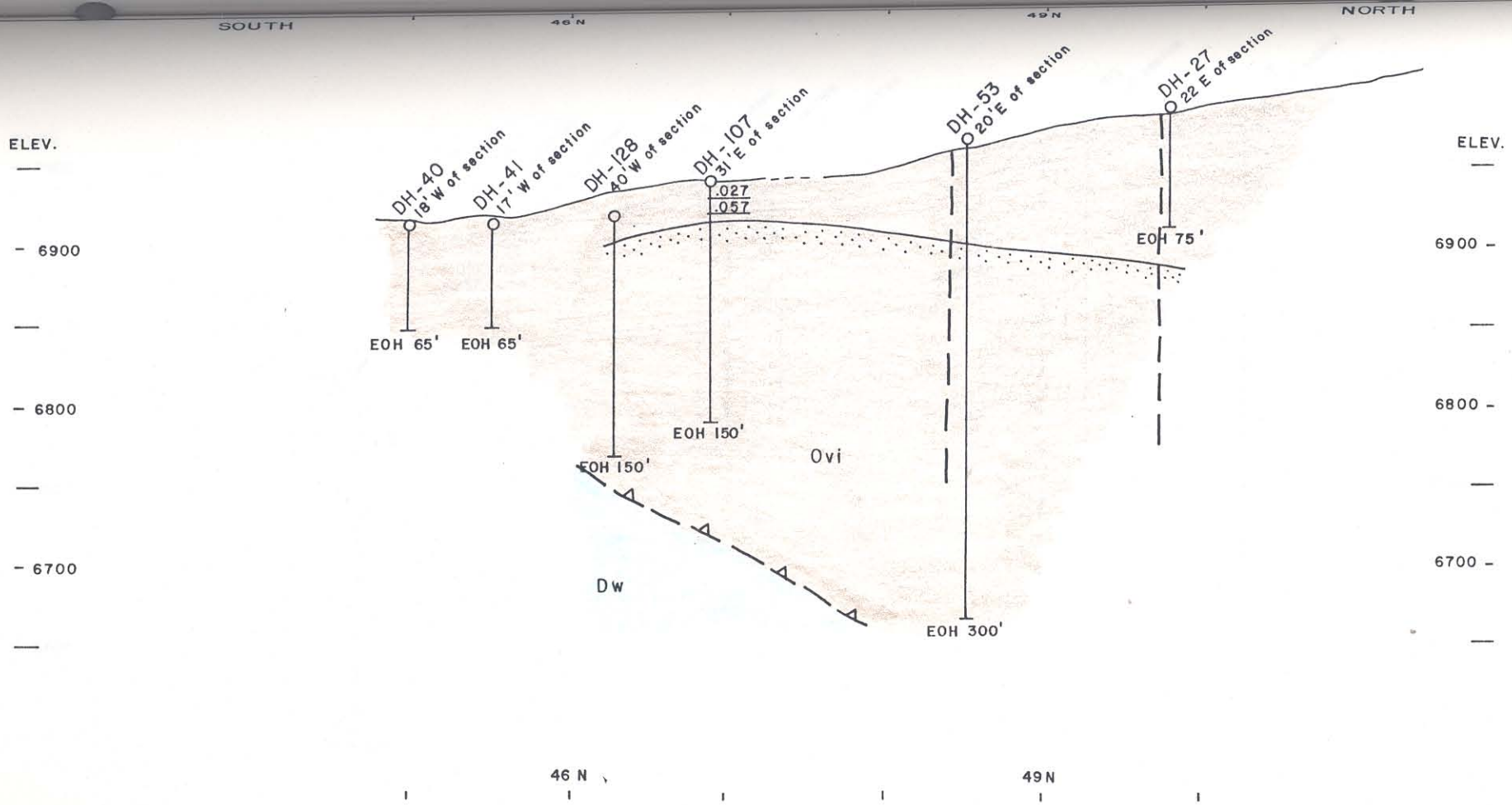

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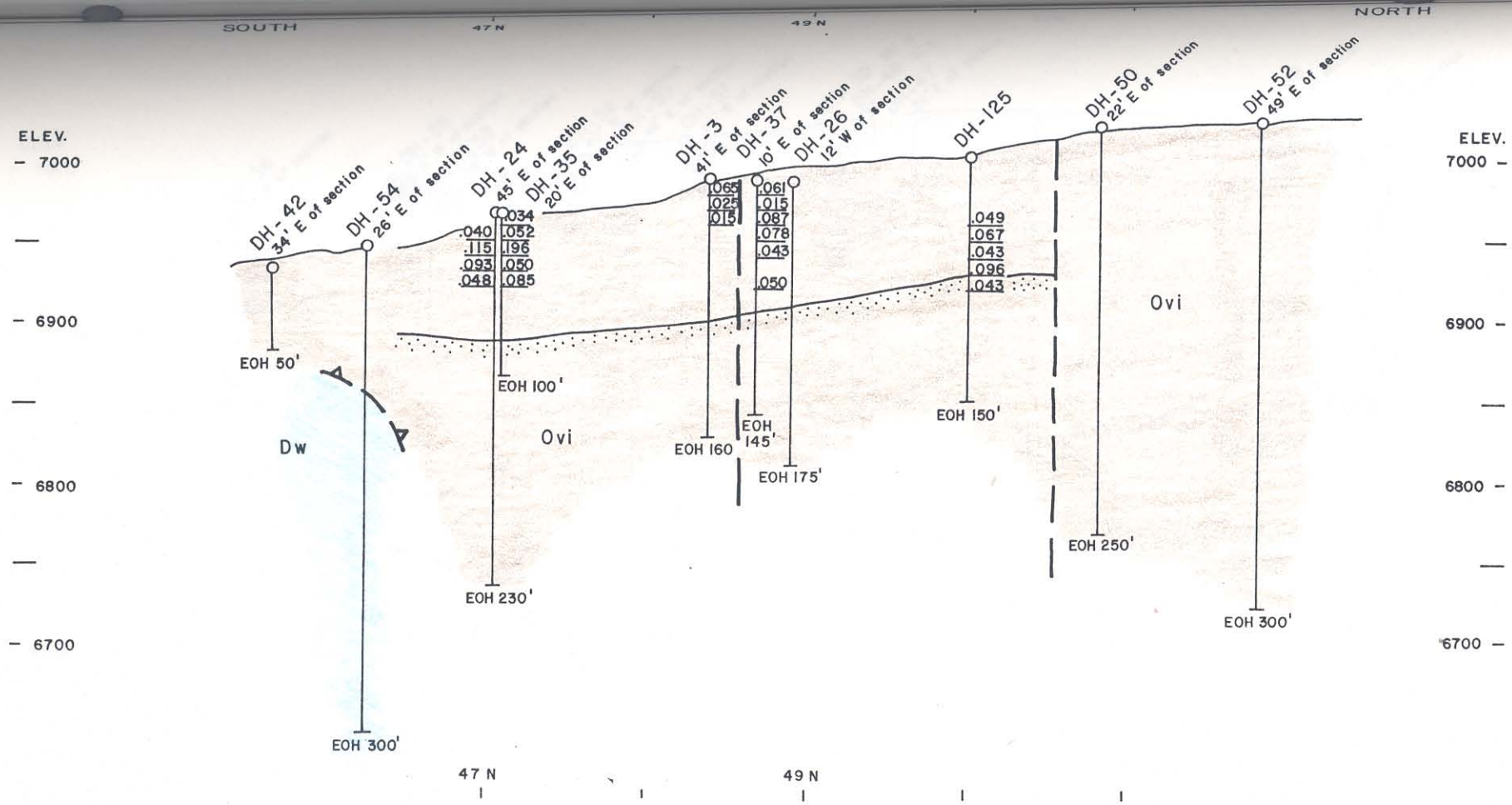
TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION
57+00 E

30

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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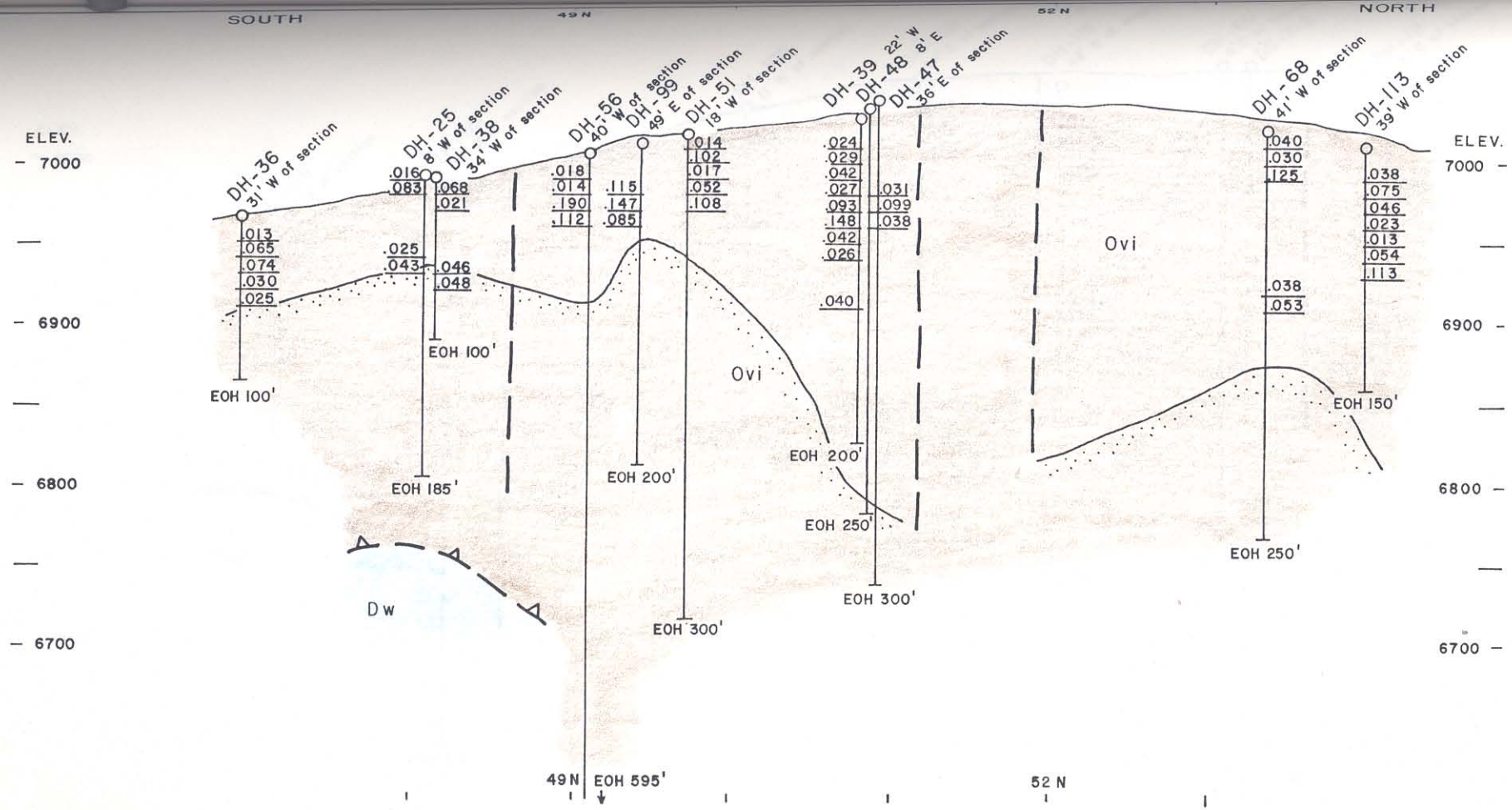
TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION 58+00E

32

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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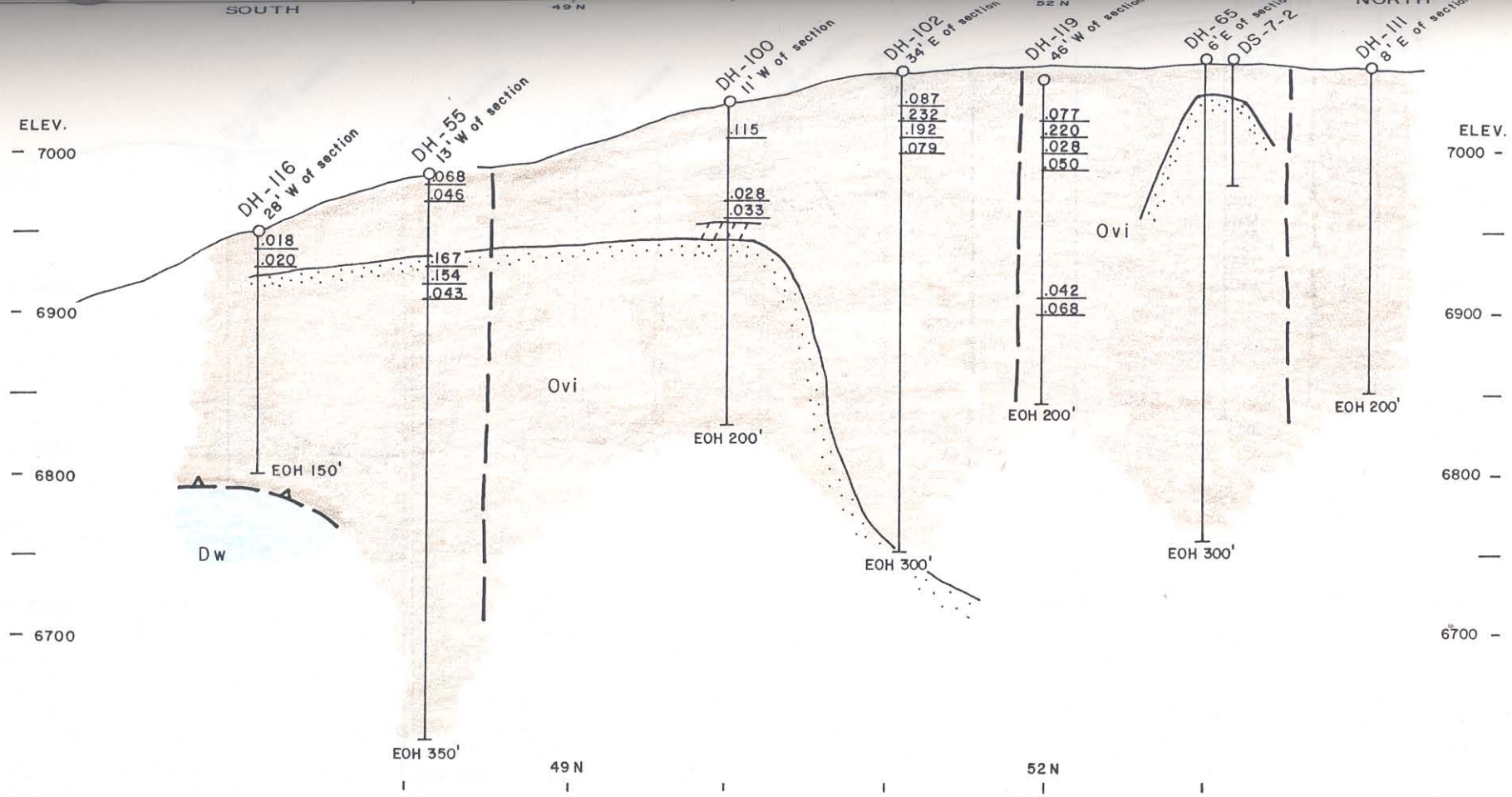
TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION 59+00E

33

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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Spokane, Washington

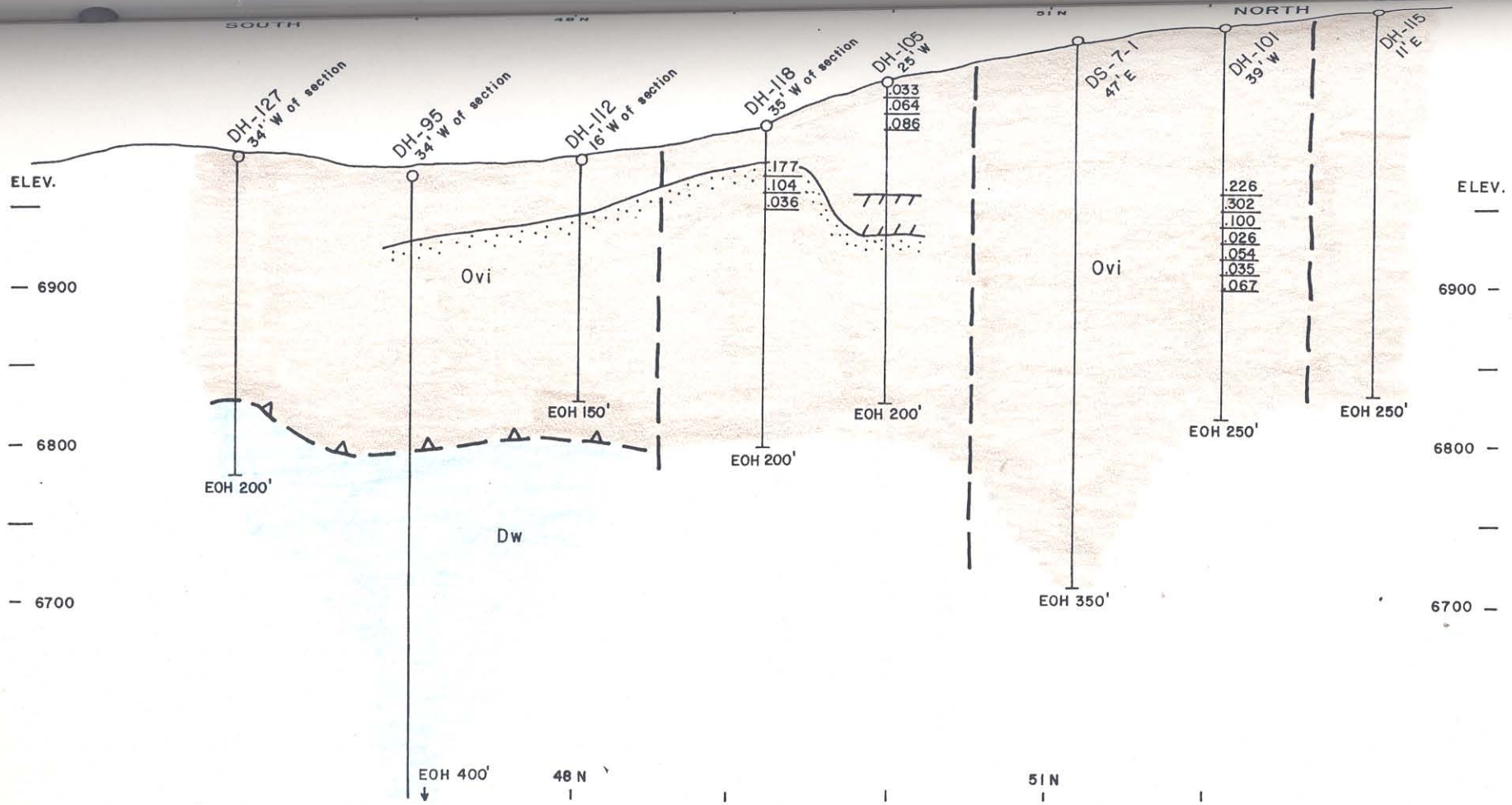
TOIYABE PROJECT
LANDER COUNTY, NEVADA

GEOLOGIC SECTION 60+00E

34

0 — 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986



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M. D. REGAN & ASSOCIATES
Spokane, Washington

TOIYABE PROJECT
LANDER COUNTY, NEVADA
GEOLOGIC SECTION 61+00E

35

0 100 ft
SCALE 1" = 100'

M. D. REGAN
MAY 1986

APPENDIX I

DRILL HOLE ASSAY LOGS

DRILL HOLES USED

IN

ORE RESERVE ESTIMATE

Appendix I

Drill Holes Used in Ore Reserve Estimate

(Includes calculated 10 ft. bench assays for proposed Open Pit)

Hole No.	Depth (ft)	Hole No.	Depth (ft)
3	160	65	300
24	230	68	250
25	185	99	200
26	175	100	200
35	100	101	250
36	100	102	300
37	145	104	200
38	100	105	200
39	200	107	150
48	250	108	200
49	250	109	200
51	300	113	150
53	300	116	150
55	285	118	200
56	590	119	200
		125	150
		132	300

SAMPLE RECORD
R:

PROJECT TOIYABE

DRILL HOLE NO. Dresher DH-3

PAGE 1 OF 1

REMARKS: Collar Elev. 6990

BIT SIZE	RECOVERY Ft	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
				.018	0	5	.065	.06	.08			
					5	10		.07	NF			
				.090	10	15	.025	.03	NF			
					15	20		.02	NF			
				.035	20	25	.015	.02	NF			
					25	30		.01	NF			
				Homestake Composites 10' Composites	30	35	N.O. Regan 10' Composites	.02	NF			
					35	40		.02	NF			
					40	45		.01	NF			
					45	50		NF	NF			
					50	55		NF	NF			
					55	60		.05	.11			
					60	65		.04	NF			
					65	70		.04	NF			
					70	75		.03	NF			
					75	80		.02	NF			
					80	85		.01	NF			
					85	90		.05	.05			
					90	95		.08	.01			
					95	100		.02	NF			
					100	105		.03	NF			
					105	110		.02	NF			
					110	115		.11	.09			
					115	120		.06	.01			
					120	125		.06	.01			
					125	130		.03	NF			
					130	135		NF	NF			
					135	140		.03	NF			
					140	145		.01	.04			
					145	150		.02	.14			
					150	155		.01	NF			
					155	160		NF	NF			

Elevations: 6990, 80, 70, 60, 50, 40, 30, 20, 10, 6900

SAMPLE RECORD

PROJECT TOIYABE DRILL HOLE NO. DH-24 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	Hg ppb	ASSAYS Au	ASSAYS Ag	ASSAYS As	Check Assay Units Au	Check Assay Units Ag	REMARKS
					6970								COLLAR ELEV 6966'
				4/5									
				1/4	60	0	5	80	.010	.1	330		
						5	10	200	.040	.05	455		
		.04		.04 5	6950	10	15	380	.040	None	255		
				1/4		15	20	200	.040	None	285		
		.116		.115 5		20	25	1200	.175	None	240	.170	None
				1/4	40	25	30	800	.110	None	320		
		.092		.093 5		30	35	800	.080	None	320		
				1/4	30	35	40	620	.085	None	570		
		.047		.048 5		40	45	460	.025	None	450		
				1/4	20	45	50	440	.015	None	710		
		.017				50	55	220	.020	None	540		
						55	60	520	.010	None	500		
						60	65	260	.015	None	440		
						65	70	360	.010	None	230		
						70	75	220	.005	None	310		
						75	80	330	.005	None	460		
						80	85	150	.005	None	340		Begin Carbonaceous
						85	90	80	.010	None	230		
						90	95	100	.005	None	40		
						95	100	100	TR	None	25		
						100	105	140	.005	None	30		
						105	110	150	.005	None	30		
						110	115	80	.005	None	40		
						115	120	100	.005	.1	25		
						120	125	80	.005	None	35		
						125	130	70	.010	None	30		
						130	135	50	.005	.1	25		
						135	140	50	.005	None	15		
						140	145	80	.005	None	15		
						145	150	55	.005	None	20		
						150	155	50	.005	None	40		
						155	160	30	.005	None	15		
						160	165	20	.005	None	35		
						165	170	50	.005	None	20		
						170	175	80	.010	None	25		
						175	180	50	.005	None	25		
						180	185	50	.005	None	25		
						185	190	35	.005	.1	20		
						190	195	40	.005	None	15		
						195	200	45	.005	None	10		
						200	205	50	.005	None	25		
						205	210	50	.005	None	20		
						210	215	40	.005	None	25		
						215	220	20	.005	None	15		
						220	225	20	.010	None	20		
						225	230	20	.005	None	10		

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

PROJECT TOIYABE DRILL HOLE NO. DH-25 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	Hg ppb	ASSAYS Au	ASSAYS Ag	ASSAYS As	REMARKS
				.016 1/4	6990						Collar ELEV. 6991
					0	5	250	.160	.1	295	
		.08		.083 5/1/4	20 5	10	190	.035	.1	500	
					10	15	180	.015	None	285	
					15	20	160	.015	None	440	
					70 20	25	200	.010	None	850	
					25	30	200	.020	None	870	
					60 30	35	380	.015	None	440	
					35	40	520	.015	None	360	
					50 40	45	280	.015	None	255	
		.026		.025 5/1/4	45	50	280	.020	None	510	
					40 50	55	1300	.085	None	680	
		.042		.043 5/1/4	55	60	300	.015	None	620	Begin Card 55
					30 60	65	260	.015	None	235	
					65	70	140	.005	None	570	
					70	75	100	.005	None	210	
					75	80	140	.010	None	175	
					80	85	240	.010	None	150	
					85	90	80	.005	.1	50	
					90	95	140	.005	None	55	
					95	100	80	.005	None	95	
					100	105	380	.057	None	340	
					105	110	160	.010	.1	65	
					110	115	160	.005	None	675	
					115	120	80	.010	None	75	
					120	125	50	.010	None	40	
					125	130	1700	.040	None	175	
					130	135	380	.030	.1	130	
					135	140	360	.025	.1	160	
					140	145	260	.025	.1	135	
					145	150	500	.040	None	235	
					150	155	210	.030	.1	295	
					155	160	120	.035	.1	265	
					160	165	80	.015	None	35	
					165	170	80	.010	None	20	
					170	175	70	.010	None	25	
					175	180	40	.005	None	20	
					180	185	20	.005	None	10	

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

PLER: PROJECT TOTYABE DRILL HOLE NO. DH-26 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	Hg ppb	ASSAYS Au	ASSAYS Ag	ASSAYS As	REMARKS
											Collar Elev 6987
					0	5	30	.020	.1	300	
					5	10	30	.015	.1	215	
					10	15	30	.010	None	180	
					15	20	10	.015	None	130	
					20	25	20	.015	None	440	
					25	30	20	.020	None	940	
					30	35	110	.270	None	+1000	
					35	40	110	.110	.1	+1000	
					40	45	220	.155	None	+1000	
					45	50	190	.195	None	+1000	
					50	55	60	.015	None	800	
					55	60	50	.010	None	700	
					60	65	30	.010	None	720	
					65	70	46	.005	None	750	
					70	75	30	.010	None	300	
					75	80	40	.010	None	185	
					80	85	50	.020	None	330	Begin Core 80'
					85	90	110	.015	None	300	
					90	95	110	.010	None	295	
					95	100	90	.010	None	215	
					100	105	60	.010	.1	285	
					105	110	70	.010	None	215	
					110	115	80	.015	None	320	
					115	120	120	.105	.1	490	
					120	125	80	.020	None	175	
					125	130	60	.025	None	220	
					130	135	70	.020	.05	135	
					135	140	60	.035	None	120	
					140	145	60	.025	None	190	
					145	150	20	.055	None	180	
					150	155	340	.010	.1	275	
					155	160	210	.030	.1	190	
					160	165	60	.015	None	85	
					165	170	70	.015	.1	85	
					170	175	60	.010	None	60	

HOMESTAKE COMPUTER 10' COMPOSITES

M. D. REGAN 10' COMPOSITES

.166 .163 5 / 6950 2 3

.152 .150 5 / 6940 2 3

.062 .068 5 / 6930 2

SAMPLE RECORD PROJECT TOIYABE DRILL HOLE NO. DH-35 PAGE 1 OF 1

PLER:

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	Hg ppb	ASSAYS Au	ASSAYS Ag	ASSAYS As	ASSAYS Eh	REMARKS
												Collar ELEV. 6966'
		.060		.034	0	5	10	.055	None	455		6966
					5	10	8	.060	None	375		
		.051		.052	10	15	10	.040	None	265		
					15	20	30	.075	None	375		6951
		.195		.196	20	25	100	.315	None	510		
					25	30		.080	None	385		6941
		.050		.050	30	35		.020	.1	185		
					35	40		.080	None	310		6931
		.087		.085	40	45		.100	None	640		
					45	50		.030	None	360		6921
					50	55		.010	None	455		
					55	60		.005	.1	700		
					60	65		.010	None	470		
					65	70		.005	None	305		
					70	75		.005	None	210		
					75	80		.005	None	410		
					80	85		.005	None	300		
					85	90		.010	None	115		
					90	95		.010	None	150		Begin Carbonaceous 90'
					95	100		.005	None	90		

HOMESTAKE COMPUTER 10' COMPOSITES

M.P. REGAN 10' COMPOSITES

SAMPLE RECORD

PROJECT TOIYABE

DRILL HOLE NO. DH-36

BIT SIZE	RECOVERY Ft.	RECOVERY Lm.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	ASSAYS As	Check Au	Check Ag	REMARKS Collar ELEV 6965'
					0	5 6965		.020	None	590			
				.013	5	10	.013	.010	None	380			
					10	15 50		.015	None	200			
				.067	15	20	.065	.025	None	230			
					20	25 40		.105	None	440			
				.072	25	30	.074	.112	None	525	.115	None	
					30	35 30		.035	None	530			
				.030	35	40	.030	.015	None	265			
					40	45 20		.045	.05	425			
				.025	45	50	.025	.020	.1	255			
					50	55 10		.030	None	455			
					55	60		.015	.1	470			Begin Carb 57'
					60	65		.010	None	240			
				HOMESTAKE COMPUTER 10' COMPOSITES	65	70	MD REGAN 10' COMPOSITES	.010	None	300			
					70	75		.010	None	150			
					75	80		.010	None	80			
					80	85		.010	None	110			
					85	90		.015	None	480			
					90	95		.015	None	125			
					95	100		.010	None	50			

AMPLE RECORD

2:

PROJECT TOIYABE DRILL HOLE NO. DH-37 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	Lbs	%	SAMPLE NUMBER	DRILL RUN From	To 990	INTERVAL	ASSAYS Au	Ag	As	Check assay Uni Au	REMARKS Ag	Collar ELEV. 6989
				.070	0	5	.061 5	.090	None	300			
					5	10 80	4	.040	.05	440			
				.018	10	15	.015 5	.015	None	455			
					15	20 70	4	.010	None	375			
				.076	20	25	.087 5	.040	None	680			
					25	30 60	4	.165	None	+1000			
				.085	30	35	.078 5	.070	.1	640			
					35	40 50	4	.065	.1	455			
				.046	40	45	.043 5	.060	.05	+1000			
					45	50 40	4	.015	.1	375			
					50	55	5	.010	None	440			
					55	60 30	4	.015	None	275			
				.050	60	65	.050 5	.085	None	440			
					65	70 20	4	.015	None	360			
					70	75	5	.010	None	400			
					75	80 10	4	.010	.2	360			
					80	85		.010	None	250			
					85	90		.060	.25	500			Begin Carb 85'
					90	95		.015	None	300			
					95	100		.010	None	240			
					100	105		.020	None	530			
					105	110		.020	None	620			
					110	115		.010	None	195			
					115	120		.250	None	730	.275	.1	
					120	125		.070	None	365			
					125	130		.015	.1	85			
					130	135		.010	None	55			
					135	140		.045	None	45			
					140	145		.045	None	160			

HOMESTAKE COMPUTER 10' COMPOSITES

E.D. REGAN 10' COMPOSITES

SAMPLE RECORD

ER:

PROJECT TOIYABE

DRILL HOLE NO. DH-38 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To 6990	INTERVAL		ASSAYS Au	Ag	As	Check Au	assay Uni Ag	REMARKS Collar ELEV 6989
				.077	0	5	.068	5	.060	None	1000			.079
					5	10	80	4	.095	None	335			
				.013	10	15	.021	5	.010	None	250			
					15	20	70	4	.015	None	365			
					20	25		5	.015	.1	465			
					25	30	60	4	.010	None	710			
					30	35		5	.015	None	600			
					35	40	50	4	.010	None	255			
					40	45		5	.010	.1	200			
					45	50	40	4	.020	None	235			
				.053	50	55	.046	5	.030	None	285			
					55	60	30	4	.077	None	400			
				.066	60	65	.048	5	.105	.1	240	.130	.1	
					65	70	20	4	.025	None	240			
					70	75		5	.015	None	375			
					75	80		4	.015	None	320			
					80	85		5	.010	None	115			Begin Cash 80'
					85	90			.005	None	45			
					90	95			.015	None	235			
					95	100					480			

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE

DRILL HOLE NO. DH-39

PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	ASSAYS As	REMARKS
						0	5		.015	None	215	Collar ELEV 7027
						5	10 70/20	3	.020	None	375	
					.024	10	15	.024 5	.025	.1	325	
						15	20 10	2/3	.025	.1	430	
					.029	20	25	.029 5	.015	None	275	
						25	30 70/20	2/3	.070	None	410	
					.042	30	35	.042 5	.035	.1	460	
						35	40 90	2/3	.015	None	425	
					.027	40	45	.027 5	.030	None	530	
						45	50 80	2/3	.035	None	530	
					.093	50	55	.093 5	.130	.1	405	
						55	60 70	2/3	.085	None	660	
					.148	60	65	.148 5	.225	.2	470	
						65	70 60	2/3	.050	None	+1000	
					.042	70	75	.042 5	.040	None	600	
						75	80 50	2/3	.035	.1	640	
					.026	70	85	.026 5	.025	None	480	
						85	90 40	2/3	.015	None	320	
						90	95	5	.030	None	305	
						95	100 30	2/3	.020	.1	240	
						100	105	5	.020	.1	175	
						105	110 20	2/3	.015	None	130	
					.040	110	115	.040 5	.065	None	340	
						115	120 10	2/3	.015	None	105	
						120	125	5	.010	None	130	
						125	130 6900	2/3	.025	None	175	
						130	135	5	.040	None	150	
						135	140 90	2/3	.025	None	175	
						140	145	5	.035	.1	215	
						145	150		.020	.1	70	
						150	155		.225	.3	485	
						155	160		.040	.15	255	
						160	165		.020	None	75	
						165	170		.030	None	155	
						170	175		.055	.25	180	
						175	180		.035	.1	90	
						180	185		.015	.1	70	
						185	190		.025	.1	115	
						190	195		.010	.1	55	
						195	200		.010	None	45	

HOMESTAKE COMPUTER 10' COMPOSITES

D. REGAN 10' COMPOSITES

No Core noted in log

SAMPLE RECORD

PROJECT TOIYABE DRILL HOLE NO. DH-48 PAGE 1 OF 1

SAMPLER:	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	Check assay Au	Check assay Ag	REMARKS Collar Elev 7034
						0	5		.010	none			
						5	10		.010	None			
						10	15		.015	None			
						15	20		.015	None			
						20	25		.015	None			
						25	30		.015	None			
						30	35	70 1/4	.030	.1			
						35	40	5	.015	None			
						40	45	90 1/4	.025	None			
					.047	45	50	.031 5	.025	.1			
						50	55	80 1/4	.080	None			
					.097	55	60	.099 5	.120	None			
						60	65	70 1/4	.072	None			
					.021	65	70	.0385	.015	None			
						70	75	60 1/4	.015	None			
						75	80		.010	.1			
						80	85		.010	None			
						85	90		.010	None			
						90	95		.010	None			
						95	100		.010	None			
						100	105		.005	None			
						105	110		.005	None			
						110	115		.005	None			
						115	120		.010	None			
						120	125		.010	None			
						125	130		.005	None			
						130	135		.005	None			
						135	140		.005	None			
						140	145		.005	None			
						145	150		.005	None			
						150	155		.010	None			
						155	160		.010	None			
						160	165		150	None	190	None	
						165	170		.105	None			
						170	175		.010	None			
						175	180		.010	None			
						180	185		.005	None			
						185	190		.005	None			
						190	195		.010	None			
						195	200		.010	None			
						200	205		.010	None			
						205	210		.010	None			
						210	215		.010	None			
						215	220		.010	None			
						220	225		.010	None			
						225	230		.010	None			
						230	235		.010	None			
						235	240		.010	none			
						240	245		.005	None			
						245	250		.010	None			Trace Cu @ 245

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE DRILL HOLE NO. DH-49 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	Lbs	%	SAMPLE NUMBER	DRILL RUN From	To	INTERVAL	ASSAYS Au	Ag	Check assay Union Au	Ag	REMARKS
						0	5		.010	None			COLLAR ELEV 7016
						5	10		.010	None			
						10	15		.010	None			
						15	20		.010	None			
						20	25		.010	None			
						25	30		.015	None			
						30	35	6980	.015	None			
						35	40	4	.055	None			
					.044	40	45	.048 5	.045	None			
						45	50	70 1 4	.035	.1			
					.051	50	55	.050 5	.065	.3			
						55	60	60 1 4	.035	None			
					.037	60	65	.052 5	.070	None	.082	None	
						65	70	50 1 4	.025	None			
						70	75	5	.015	None			
						75	80		.010	None			
						80	85		.010	.1			
						85	90		.010	None			
						90	95		.005	None			
						95	100		.005	None			
						100	105		.010	None			
						105	110		.010	None			
						110	115		.005	None			
						115	120		.010	None			
						120	125		.015	.1			
						125	130		.010	None			
						130	135		.015	None			
						135	140		.010	None			
						140	145		.015	.1			
						145	150		.010	None			
						150	155		.005	None			
						155	160		.010	None			
						160	165		.015	None			
						165	170		.010	None			
						170	175		.010	None			
						175	180		.005	None			
						180	185		.005	None			
						185	190		.005	None			
						190	195		.030	None			
						195	200		.050	None			
						200	205		.025	None			
						205	210		.010	None			
						210	215		.015	None			
						215	220		.055	.1			
						220	225		.015	None			
						225	230		.015	.1			
						230	235		.010	None			Begin Cark 230
						235	240		.010	.1			
						240	245		.005	None			
						245	250		.005	None			

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE DRILL HOLE NO. DH-51 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
													Collar Elev 7217
					.056	0	5	.041 5	.040	None			
						5	10 10	2/3	.105	None			
					.104	10	15	.102 5	.130	None			
						15	20 7200	2/3	.025	None			
					.017	20	25	.017 5	.010	None			
						25	30 90	2/3	.020	None			
					.046	30	35	.052 5	.015	None			
						35	40 80	2/3	.190	None			
					.113	40	45	.108 5	.097	None			
						45	50 70	2/3	.010	None			
						50	55		.010	None			
					HOMESTAKE computer 10' composites	55	60	M. D. REGAN 10' composites	.010	None			
						60	65		.015	None			
						65	70		.010	None			
						70	75		.010	None			
						75	80		.010	None			
						80	85		.010	None			Begin strong carb. 80'
						85	90		.010	None			
						90	95		.015	None			
						95	100		.010	None			
						100	105		.020	.1			
						105	110		.015	None			
						110	115		.010	None			
						115	120		.020	None			
						120	125		.135	None			
						125	130		.015	None			
						130	135		.135	None			
						135	140		.010	None			
						140	145		.010	None			
						145	150		.010	None			
						150	155		.010	None			
						155	160		.015	None			
						160	165		.015	None			
						165	170		.015	None			
						170	175		.010	None			
						175	180		.015	None			
						180	185		.015	None			
						185	190		.015	None			
						190	195		.015	None			
						195	200		.010	None			
						200	205		.010	None			
						205	210		.005	None			
						210	215		.005	None			
						215	220		.005	None			
						220	225		.005	None			
						225	230		.005	None			
						230	235		.005	None			
						235	240		.005	None			
						240	245		.005	None			
						245	250		.005	None			
						250	255		.005	None			
						255	260		.005	None			

SAMPLE RECORD

SAMPLER: PROJECT TOIYABE DRILL HOLE NO. DH-53 PAGE 1 OF

DATE DRILLED	BIT SIZE	RECOVERY Ft	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	Check assay Union Au		REMARKS
													Collar ELEV 6965
						0	5		.005	.1			
						5	10		TR	None			
						10	15		TR	.1			
						15	20		TR	.1			
						20	25		.010	.1			
						25	30		.005	.1			
						30	35		.015	None			
						35	40		.005	None			
						40	45		.125	None	.145		
						45	50		.085	None			
						50	55		.103	None			
						55	60		.130	None	.135		
						60	65		.080	None			
						65	70		.100	None			
						70	75		.090	None			Begin Carb 70'
						75	80		.095	None	.100		
						80	85		.060	.2			
						85	90		.040	None			
						90	95		.060	None			
						95	100		.075	None			
						100	105		.040	None			
						105	110		.055	.1			
						110	115		.110	None	.105		
						115	120		.010	None			
						120	125		.005	.1			
						125	130		.005	.1			
						130	135		.010	.1			
						135	140		.005	None			
						140	145		.005	.1			
						145	150		.005	None			
						150	155		.005	None			
						155	160		TR	None			
						160	165		.005	.3			
						165	170		.005	None			
						170	175		TR	.2			
						175	180		TR	None			
						180	185		.005	None			
						185	190		.005	NOne			
						190	195		.005	None			
						195	200		TR	None			
						200	205		.005	.1			
						205	210		TR	.1			
						210	215		TR	None			
						215	220		TR	None			
						220	225		TR	None			
						225	230		TR	None			
						230	235		TR	.1			
						235	240		TR	.2	TR		
						240	245		TR	None			
						245	250		TR	.1			
						250	255		TR	None			
						255	260		TR	.2			
						260	265		TR	None			
						265	270		TR	None			
						270	275		TR	None			

MPLE RECORD

PROJECT TOIYABE DRILL HOLE NO. DH-55 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To 6990	INTERVAL	ASSAYS Check assay Union Au	Ag	Au		REMARKS
												Collar ELEV 6987
				.096	0	5	.068 5	.095	.2	.095		
					5	10 80	2/3	.100	.1			
				.046	10	15	.046 5	.030	.2			
					15	20 20	2/3	.005	.1			
					20	25		.005	.1			
					25	30		.005	.1			
					30	35		.020	.1			
					35	40		.005	.3			
					40	45		.005	None			
					45	50 40	3	.005	.1			Begin Cave 45' minor
				.168	50	55	.167 5	.255	None	.240		
					55	60 30	2/3	.195	.2	.190		
				.154	60	65	.154 5	.185	None	.175		~~Begin Cave~~
					65	70 20	2/3	.015	None			Begin Strong Cave 65'
				.043	70	75	.043 5	.073	.1			
					75	80 10	2/3	.010	.1			
					80	85		.005	.2			
					85	90		.005	.2			
					90	95		.020	.2			
					95	100		.005	None			
					100	105		TR	.1	.005		
					105	110		.055	None			
					110	115		.005	.1			
					115	120		.005	.1			
					120	125		.005	None			
					125	130		.025	None			
					130	135		.020	.1			
					135	140		.010	None			
					140	145		.010	None			
					145	150		TR	None			
					150	155		.005	.2			
					155	160		.005	None			
					160	165		.005	.1			
					165	170		TR	.3			
					170	175		.005	.3			
					175	180		TR	None			
					180	185		TR	.1			
					185	190		TR	.1			
					190	195		TR	.1			
					195	200		.005	None			
					200	205		TR	None			
					205	210		TR	.1			
					210	215		.005	.2			
					215	220		TR	None			
					220	225		TR	None			
					225	230		None	None			
					230	235		TR	.2			
					235	240		TR	.1			
					240	245		TR	None			
					245	250		TR	.1			
					250	255		TR	.1			
					255	260		TR	.1			
					260	265		TR	.1			
					265	270		Tr	.3			
					270	275		TR	None			

HOMESTAKE COMPUTER 10' COMPOSITES

REGAN 10' COMPOSITES

SAMPLE RECORD

PROJECT TOIYABE — DRILL HOLE NO. DH-56 — PAGE 1 OF 2

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	REMARKS
					0	5		.015	None	Collar ELEV. 1004
				.019	5	10	.01805	.025	None	
					10	15		.010	None	
				.028	15	20	.01405	.005	None	
					20	25		.025	None	
				.137	25	30	.190 5	.190	None	
					30	35	4	.230	.2	
				.037	35	40	.112 5	.145	None	Begin minor Carbon 35'
					40	45	4	.040	.1	
					45	50		.015	None	
					50	55		.015	None	
					55	60		.018	None	Begin Strong Carbon 55'
					60	65		.005	None	
					65	70		.005	.1	
					70	75		.005	None	
					75	80		.010	.2	
					80	85		.140	.2	
					85	90		.180	.1	
					90	95		.105	.3	
					95	100		.030	None	
					100	105		.010	.2	
					105	110		.015	None	
					110	115		.005	None	
					115	120		.020	.1	
					120	125		.010	.1	
					125	130		.005	None	
					130	135		.005	.3	
					135	140		.005	None	
					140	145		.005	.1	
					145	150		.040	None	
					150	155		.100	.3	
					155	160		.078	.3	
					160	165		.050	None	
					165	170		.015	None	
					170	175		.030	.1	
					175	180		.015	None	
					180	185		.005	.1	
					185	190		.005	None	
					190	195		.005	.2	
					195	200		.005	.1	
					200	205		.005	None	
					205	210		.005	None	
					210	215		.005	.2	
					215	220		TR	None	
					220	225		TR	.1	
					225	230		TR	None	
					230	235		TR	None	
					235	240		TR	None	
					240	245		TR	None	
					245	250		TR	None	
					250	255		TR	None	
					255	260		TR	None	
					260	265		TR	.1	
					265	270		.005	None	
					270	275		.005	None	
					275	280		TR	None	
					280	285		TR	None	
					285	290		TR	.1	
					290	295		Tr	None	

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

MPLER: R. L. Petray PROJECT TOITAGE DRILL HOLE NO. DH65 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	UNION ASSAYS Au	UNION ASSAYS Ag	HUNTER ASSAYS	HUNTER ASSAYS	REMARKS
													65 Collar Elev. 7054
0-78					001C	NO SAMPLE TAKEN							Combined with 002C
					002	0	10	10'	Tr	N			from 0 - 10
					003	10	15	5'	Tr	.1			
					004	15	20	5'	.025	N	N	.22	Damp Begin Cave 15'
					005	20	25	"	Tr	N			
					006	25	30	"	Tr	.1			
					007	30	35	"	.01	N			
					008	35	40	"	Tr	N			
					009	40	45	"	Tr	.1			
					010C	45	50	"	Tr	N			
					011	50	55	"	Tr	N			
					012	55	60	"	Tr	.1			
					013	60	65	"	Tr	N			
					014	65	70	"	N	N			
					015	70	75	"	N	N			
					016	75	80	"	.01	N			
					017	80	85	"	.23	1	24	1	
					018	85	90	"	.17	.2	.18	.26	
					019	90	95	"	.085	.1			
					020C	95	100	"	.045	N			
					021	100	105	"	.04	N			
					022	105	110	"	Tr	.1			
					023	110	115	"	.075	.2	.09	.13	
					024	115	120	"	.09	.2			
					025	120	125	"	.025	.1			
					026	125	130	"	.01	N			
					027	130	135	"	.005	N			
					028	135	140	"	Tr	N			
					029	140	145	"	Tr	.1			
					030C	145	150	"	Tr	N			
					031	150	155	"	Tr	N			
					032	155	160	"	Tr	N			
					033	160	165	"	.01	N			
					034	165	170	"	Tr	N			
					035	170	175	"	N	.1			Damp
11-78					036	175	180	"	Tr	N			Damp
					037	180	185	"	Tr	.1			
					038	185	190	"	.055	N			
					039	190	195	"	.01	N			
					040C	195	200	"	Tr	N			
					041	200	205	"	Tr	N			
					042	205	210	"	Tr	.1			
					043	210	215	"	Tr	N			
					044	215	220	"	N	N			
					045	220	225	"	.005	N			
					046	225	230	"	Tr	N			
					047	230	235	"	.01	N			
					048	235	240	"	.015	N			
					049	240	245	"	.01	N			
					050C	245	250	"	.01	N			
					051	250	255	"	.01	N			
					052	255	260	"	.005	N			
					053	260	265	"	.005	N			
					054	265	270	"	Tr	N			
					055	270	275	"	Tr	N			
					056	275	280	"	Tr	N			

Shake-leach test

Interval	Gold Recovery
90-125	82%?

N/C

DH 68

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag		
		.038		695	0	5	7020	.03	N		
				696	5	10	.04	.05	N	.04	.16
		.028		697	10	15	7010	.02	N	.02	.18
				698	15	20	.03	.04	.1	.03	.13
		.117		699	20	25	7000	.23	.1	.20	.22
				700	25	30	.125	.02	N		
				701	30	35	6990	TR	N		
				702	35	40		.01	N		
				703	40	45	6980	.01	.1		
				704	45	50		.01	N		
				705	50	55	6970	.025	N		
				706	55	60		.02	N		
				707	60	65	6960	.015	N		
				708	65	70		.02	N		
				709	70	75	6950	.03	0.1		
				710	75	80		.03	N		
				711	80	85	6940	.01	N		
				712	85	90		.01	N		
		.038		713	90	95	6930	.04	0.1		
				714	95	100	.038	.035	N		
		.052		715	100	105	6920	.06	N		
				716	105	110	.053	.045	0.1		
				717	110	115	6910	.025	N		
				718	115	120		.01	N		
				719	120	125		.005	N		
				720	125	130		TR	N		
				721	130	135		.025	N		
				722	135	140		.155	N		
				723	140	145		.045	N		
				724	145	150		.02	N		
				725	150	155		.005	N		
				726	155	160		.035	N		
				727	160	165		.015	N		
				728	165	170		TR	N		
				729	170	175		TR	N		
				730	175	180		TR	N		
				731	180	185		TR	N		
				732	185	190		.005	N		
				733	190	195		.005	N		
				734	195	200		TR	N		
				735	200	205		TR	N		
				736	205	210		.005	N		
				737	210	215		.005	N		
				738	215	220		TR	N		
				739	220	225		TR	N		
				740	225	230		TR	0.1		
				741	230	235		TR	N		
				742	235	240		TR	N		
				743	240	245		TR	N		
				744	245	250	E.O.H.	TR	N		

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

REMARKS

Collar Elev 7020

SHAKE LEACH TEST

Interval	Gold Recovery
0-30	17%
"	"
[illegible]	[illegible]

Shake Leach Test

Interval	Gold Recovery
90-115'	54%

Shake Leach Test

Interval	Gold Recovery
130-145	[illegible]

~~Carbon [illegible]~~

[illegible]

Begin Carb 145'

MPLE RECORD

PROJECT TOIYABE

DRILL HOLE NO. DH-99 PAGE 1 OF 1

RECOVERY Ft	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
						7010					Collar ELEV. 7010
				0	5						Spud Samples
				5	10	7000					" "
			3082B	10	15		.006				
			3083B	15	20	90	.011				
	.115		3084B	20	25	.115	.123				
			3085B	25	30	80	.107				
	.147		3086B	30	35						
			3087B	35	40	.147	.065				
			3088B	40	45	70	.229				
	.085					.085					
			3089B	45	50		.130				
			3090B	50	55	60	.040				
			3091B	55	60		.008				
			3092B	60	65	50	.002				
			3093B	65	70		TR				Begin strong carb 60'
			3094B	70	75	40	.002				
			3095B	75	80		.002				
			3096B	80	85		TR				
			3097B	85	90		TR				
			3098B	90	95		.002				
			3099B	95	100		.076				
			3100B	100	105		.018				
			3101B	105	110		.004				
			3102B	110	115		.164				
			3103B	115	120		.022				
			3104B	120	125		.022				
			3105B	125	130		.042				
			3106B	130	135		.024				
			3107B	135	140		.056				
			3108B	140	145		.042				
			3109B	145	150		.024				
			3110B	150	155		.006				
			3111B	155	160		.018				
			3112B	160	165		.002				
			3113B	165	170		.006				
			3114B	170	175		.002				
			3115B	175	180		.018				
			3116B	180	185		.012				
			3117B	185	190		TR				
			3118B	190	195		TR				
			3119B	195	200		TR				

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE

DRILL HOLE NO. DH-100 PAGE 1 OF 1

TE LED	BIT SIZE	RECOVERY Ft.	Lbs.	%	SAMPLE NUMBER	DRILL RUN From	To	INTERVAL	ASSAYS Au	Ag	Au	Re-Run	UG	REMARKS
						0	5	7090 2/3						Collar Elev. 7032
					3120B	5	10	5	TR					Spud - No Sample
					3121B	10	15	20 2/3	.002					Shake Leach Test
		.116			3122B	15	20	.115 5	.225		.230			Interval Gold Recovery
					3123B	20	25	10 2/3	.014					15-25 79%
					3124B	25	30	5	.007					
					3125B	30	35	7080 2/3	TR					
					3126B	35	40	5	TR					
					3127B	40	45	90 2/3	TR					
					3128B	45	50	5	TR					
					3129B	50	55	80 2/3	TR					Shake Leach Test
		.029			3130B	55	60	.028 5	.038					Interval Gold Recovery
					3131B	60	65	70 2/3	.045					
		.033			3132B	65	70	.033 5	.039					55-70 56%
					3133B	70	75	60 2/3	.006					
					3134B	75	80		.014					
					3135B	80	85		.016					Begin weak carb. 75'
					3136B	85	90		.016					
					3137B	90	95		.046					Begin mod-strg carb. 85'
					3138B	95	100		.092					90-100 1-2%
					3139B	100	105		.002					
					3140B	105	110		.014					
					3141B	110	115		.024					
					3142B	115	120		.020					110-130 1.6%
					3143B	120	125		.020					
					3144B	125	130		.054					
					3145B	130	135		.011					
					3146B	135	140		.009					
					3147B	140	145		.012					
					3148B	145	150		.012					
					3149B	150	155		TR					
					3150B	155	160		.002					
					3151B	160	165		TR					
					3152B	165	170		.010					
					3153B	170	175		.016					
					3154B	175	180		.038					
					3155B	180	185		.022					
					3156B	185	190		.004					
					3157B	190	195		.006		.008			
					3158B	195	200		.003					

HOMESTAKE COMPUTER 10' COMPOSITES

M. D. REGAN 10' COMPOSITES

SAMPLE RECORD

PROJECT TOIYABE DRILL HOLE NO. DH-101 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAY Au	ASSAY Ag	ASSAY Re-Run Au	UG	REMARKS
												Collar ELEV. 7068
					0	5						Spud - No sample
				3159B	5	10		TR				
				3160B	10	15		TR				
				3161B	15	20		TR				
				3162B	20	25		TR				
				3163B	25	30		TR				
				3164B	30	35		TR				
				3165B	35	40		TR				
				3166B	40	45		TR				
				3167B	45	50		TR				
				3168B	50	55		.002				
				3169B	55	60		.004				
				3170B	60	65		.002				
				3171B	65	70		.006				
				3172B	70	75		.018		.020		
				3173B	75	80		TR				
				3174B	80	85		TR				
				3175B	85	90		TR				
				3176B	90	95		TR		TR		
				3177B	95	100	6970 3/2	.024				
	.213			3178B	100	105	.226 5	.257		.254		
				3179B	105	110	60 3/2	.310				
	.306			3180B	110	115	.3025	.356		.360		
				3181B	115	120	50 3/2	.206				
	.107			3182B	120	125	.1005	.103		.102		
				3183B	125	130	40 3/2	.024				
	.025			3184B	130	135	.0265	.010				
				3185B	135	140	30 3/2	.054				
	.050			3186B	140	145	.0545	.038				
				3187B	145	150	20 3/2	.070		.064		
	.036			7461D	150	155	.0355	.018				
				7450D	155	160	10 3/2	.039				
	.063			7451D	160	165	.0675	.042				
				7452D	165	170	6900 3/2	.127				
				7453D	170	175	5	.068				
				7454D	175	180	3/2	.042				
				7455D	180	185	5	.024				
				7456D	185	190	3/2	.014				
				7457D	190	195		.002				
				7458D	195	200		.006				
				7459D	200	205		.003				
				7460D	205	210		.004				
				7462D	210	215		.004				
				7463D	215	220		.003				
				7464D	220	225		TR				
				7465D	225	232		.004				Poor Return
				7466D	232	240		.012				
				7467D	240	245		.003				
				7468D	245	250		.003				E.O.H.
									1.952 × =			9.51

HOMESTAKE COMPUTER 10' COMPOSITES

M.P. REGAN 10' COMPOSITES

No Carb noted on Drill Log

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE

DRILL HOLE NO. DH-102

PAGE 1 OF 1

'E LED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
						0	5	7050 2 3					Collar Elev 7052
						5	10	5					Shake Leach Test
					3301B	10	15	40 2 3	.003				Interval / Gold Recovery
			.089		3302B	15	20	.087 5	.100				
					3303B	20	25	30 2 3	.182				
			.232		3304B	25	30	.232 5	.266				15-40 32%
					3305B	30	35	20 2 3	.221				
			.190		3306B	35	40	.192 5	.221				
					3307B	40	45	20 2 3	.075				
			.078		3308B	45	50	.079 5	.093				40-55 67%
					3309B	50	55	7000 2 3	.048				
					3310B	55	60	5	.011				
					3311B	60	65		.020				
					3312B	65	70		.011				
					3313B	70	75		.004				
					3314B	75	80		.005				
					3315B	80	85		.010				
					3316B	85	90		.003				
					3317B	90	95		.002				
					3318B	95	100		.004				
					3319B	100	105		.019				
					3320B	105	110		.014				
					3321B	110	115		.015				
					3322B	115	120		.005				
					3323B	120	125		.002				
					3324B	125	130		.016				
					3325B	130	135		.008				
					3326B	135	140		.003				
					3327B	140	145		.002				
					3328B	145	150		.022				
					3329B	150	155		.039				145-160 7[illegible]
					3330B	155	160		.056				
					3331B	160	165		.017				
					3332B	165	170		.015				
					3333B	170	175		.012				
					3334B	175	180		.012				
					3335B	180	185		.031				
					3336B	185	190		.011				
					3337B	190	195		.018				
					3338B	195	200		.043				
					3339B	200	205		.009				
					3340B	205	210		.013				
					3341B	210	215		.004				
					3342B	215	220		.002				
					3343B	220	225		TR				
					3344B	225	230		.002				
					3345B	230	235		TR				
					3346B	235	240		TR				
					3347B	240	245		TR				
					3348B	245	250		TR				
					3349B	250	255		TR				
					3350B	255	260		TR				
					3351B	260	265		TR				

HOMESTAKE MINUTER 8 10 COMPOSITES

MD REGAN 10, 6 COMPOSITES

SAMPLE RECORD

SAMPLER: JOE NILAND

PROJECT TOIYABE

DRILL HOLE NO. DH-104 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
													Collar ELEV 7778
					3418B	10	15		.009				No Sample?
					3419B	15	20		.004				
					3420B	20	25		.003				
					3421B	25	30		.002				
					3422B	30	35		TR				
					3423B	35	40		.002				
					3424B	40	45		.006				
					3425B	45	50		TR				
					3426B	50	55		TR				
					3427B	55	60		TR				
					3428B	60	65		TR				
					3429B	65	70		.002				
					3430B	70	75		TR				
					3431B	75	80		.004				
					3432B	80	85		TR				Shake Leach Test
					3433B	85	90		TR				
					3434B	90	95		TR				
					3435B	95	100	6980 3/2	.052	2'			
		.133			3436B	100	105	.133 5	.218	5'			
					3437B	105	110	70 3/2	.044	2'			
		.061			3438B	110	115	.061 5	.074				
					3439B	115	120	60 3/2	.050				95-150 74%
		.042			3440B	120	125	.041 5	.052				
					3441B	125	130	50 3/2	.018				
		.048			3442B	130	135	.048 5	.069				
					3443B	135	140	40 3/2	.032				
		.033			3444B	140	145	.033 5	.040				
					3445B	145	150	30 3/2	.022				
					3446B	150	155		.005				
					3447B	155	160		TR				
					3448B	160	165		.006				
					3449B	165	170		.006				
					3450B	170	175		TR				
					3451B	175	180		.003				
					3452B	180	185		TR				
					3453B	185	190		TR				
					3454B	190	195		TR				
					3455B	195	200		TR				E.O.H.

HOMESTAKE COMPOSITES 10' COMPOSITES

M.A. REGAN 10' COMPOSITES

No Cart noted on drill log

SAMPLE RECORD

SAMPLER: Fred Bigony

PROJECT Toiyabe

DRILL HOLE NO. DH-105

DATE FILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	REMARKS
											Collar Elev 7029
4/80			.035			0	5	.033 5			No Spud Sample
					3456B	5	10	20 4	.083		No Log Sample
			.064		3457B	10	15	.064 5	.041		Shale Leach Test
					3458B	15	20	10 4	.089		Interval / Gold Recovery
			.083		3459B	20	25	.086 5	.116		
					3460B	25	30	7000 4	.048		5-50 / 70%
					3461B	30	35		TR		
					3462B	35	40		.002		
					3463B	40	45		.154		
					3464B	45	50		.021		
					3465B	50	55		.007		
					3466B	55	60		.006		
					3467B	60	65		.002		
					3468B	65	70		.002		
					3469B	70	75		.008		Begin weak carb 70'
					3470B	75	80		.032		
					3471B	80	85		.002		Begin mod carb 80'
					3472B	85	90		.114		
					3473B	90	95		.122		
					3474B	95	100		.030		Begin strong carb 95'
					3475B	100	105		.008		
					3476B	105	110		.006		
					3477B	110	115		.003		
					3478B	115	120		.004		
					3479B	120	125		.009		
					3480B	125	130		.010		No Bulk Sample. Hole making H_2O. Wet sampling. How much H_2O?
					3481B	130	135		.004		
					3482B	135	140		.002		
					3483B	140	145		.066		
					3484B	145	150		.086		90-135 / 42%
					3485B	150	155		.070		
					3486B	155	160		.118		
					3487B	160	165		.051		T-Sample Contaminated
					3488B	165	170		.030		
					3489B	170	175		.021		
					3490B	175	180		.028		
					3491B	180	185		.038		
					3492B	185	190		.012		
					3493B	190	195		.017		
2/5/80					3494B	195	200		.012		T.D.

HONESTALE COMPUTER 10' COMPOSITES

REGRAD 10' COMPOSITES

SAMPLE RECORD

SAMPLER: Fred Bigony

PROJECT TOIYABE

DRILL HOLE NO. DH-107

PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag		ELEV.	REMARKS
								6940					Collar ELEV 6940
7/80						0	5					6940	No Sample
			.026		7420D	5	10	.027	.053				
					7421D	10	15		.048			6930	5-25 68%
			.057		7423D	15	20	.057	.066				
					7424D	20	25		.026			6920	
					7425D	25	30		.005				Begin. Carb. 25'
					7426D	30	35		.007				
					7427D	35	40		.005				
					7428D	40	45		.005				
					7429D	45	50		.007				End of Shift
8/80					7430D	50	55		.006				
					7431D	55	60		.005				Begin Carbonaceous
					7432D	60	65		.002				
					7433D	65	70		TR				
					7434D	70	75		.003				
					7435D	75	80		TR				
					7436D	80	85		.002				
					7437D	85	90		.002				
					7438D	90	95		.002				
					7439D	95	100		.003				
					7440D	100	105		.004				
					7441D	105	110		TR				
					7442D	110	115		TR				
					7443D	115	120		TR				
					7444D	120	125		TR				
					7445D	125	130		TR				
					7446D	130	135		TR				
					7447D	135	140		TR				
					7448D	140	145		TR				
					7449D	145	150		TR				E.O.H.

HOMESTAKE COMPUTER 10' Composites

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER: Joe Niland

PROJECT TOIYABE

DRILL HOLE NO. DH-108

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
													Collar ELEV 7078
						0	5						No Sample
					7707D	5	10		TR				
					7708D	10	15		TR				Good Return,
					7709D	15	20		TR				Pebble Size
					7710D	20	25		TR				
					7711D	25	30		TR				
					7712D	30	35		TR				
					7713D	35	40		TR				
					7714D	40	45		.003				
					7715D	45	50		TR				
					7716D	50	55		TR				
					7717D	55	60		.003				
					7718D	60	65		TR				Shale Lead Tail
					7719D	65	70		TR				
					7720D	70	75		TR				Interval / Gold Recov
					7721D	75	80	7000	.007				
				.047	7722D	80	85	.049	.053				80-95 72%
					7723D	85	90	90	.074				Rare
				.087	7724D	90	95	.094	.026				Qtz veining note
					7725D	95	100	80	.222				in drill logs
				.249	7726D	100	105	.240	.366				95-105 77%
					7727D	105	110	70	.043				Rocky taking on a more
				.068	7728D	110	115	.068	.092				reddish
					7729D	115	120	60	.044				color.
				.029	7730D	120	125	.027	.031				105-125 72%
					7731D	125	130	50	.010				Harder rock - soft
					7732D	130	135		.005				again 145'
					7733D	135	140		.003				
					7734D	140	145		.002				
					7735D	145	150		TR				
					7736D	150	155		TR				
					7737D	155	160		TR				
					7738D	160	165		TR				
					7739D	165	170		TR				
					7740D	170	175		TR				
					7741D	175	180		TR				
					7742D	180	185		TR				Caving - plaster hole
					7743D	185	190		TR				
					7744D	190	195		TR				
12/8/80					7745D	195	200		TR				End of Hole.

HOMESTAKE COMPUTER 10 COMPOSITES

M.D. REGAN 10 COMPOSITES

No Caution noted in drill logs

SAMPLE RECORD

SAMPLER: Joe Niland PROJECT Toiyabe DRILL HOLE NO. DH-109 PAGE 1 OF 1

Collar Elev 7062

DATE LOGGED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
						0	5						No sample
10					7746D	5	10		.002				
					7747D	10	15		TR				
					7748D	15	20		TR				
					7749D	20	25		TR				
					7750D	25	30		TR				Trouble With Cyclone
					7751D	30	35		TR				loss of some "fines"
					7752D	35	40		TR				
					7753D	40	45		TR				
					7754D	45	50		TR				
					7755D	50	55		TR				
					7756D	55	60		TR				
					7757D	60	65		TR				
					7758D	65	70		TR				Sample getting moist
					7759D	70	75		TR				
10/80					7760D	75	80		TR				Dry Again
					7761D	80	85		TR				
					7762D	85	90		.018				
					7763D	90	95		TR				
					7764D	95	100		.020				
					7765D	100	105		.015				Caving, plastering necessary
					7766D	105	110	6950 7/2	.015				
1					7767D	110	115		.030				
		.048			7768D	115	120	.048 5/40	.051				
					7769D	120	125	8/3	.068				
		.078			7770D	125	130	.078 5/30	.087				
					7771D	130	135	2/3	.071				
		.057			7772D	135	140	.056 5/20	.055				
					7773D	140	145	2/3	.037				Stuck in hole, foam used
		.044			7774D	145	150	.044 5/10	.051				
					7775D	150	155	2/3	.037				Hard Rock
		.091			7776D	155	160	.094 5/6900	.131				
					7777D	160	165	2/3	.074				
2/11/80					7778D	165	170	5	.003				
					7779D	170	175		.003				
					7780D	175	180		TR				
					7781D	180	185		TR				
					7782D	185	190		TR				
					7783D	190	195		TR				
					7784D	195	200		TR				E.O.H.

HOMESTAKE COMPUTER 10' COMPOSITES

MID RESIN 10' COMPOSITES

SAMPLE RECORD

SAMPLER: Fred Bigony

PROJECT Toiyabe

DRILL HOLE NO. DH-113 PAGE 1 OF 1

DATE FILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
								7010					Collar Elev 7010
2/12/80						0	5						Shake Length Tied
					7897D	5	10	7000	.033				
					7898D	10	15		.049				
			.038		7899D	15	20	.038 6990	.027				
					7900D	20	25		.069				
			.072		7901D	25	30	.075 6980	.080				
					7902D	30	35		.030				
			.047		7903D	35	40	.046 6970	.062				
					7904D	40	45		.013				
			.025		7905D	45	50	.023 6960	.034				
					7906D	50	55		.009				
			.013		7907D	55	60	.013 6950	.016				
					7908D	60	65		.031				
			.052		7909D	65	70	.054 6940	.077				
					7910D	70	75		.128				
			.112		7911D	75	80	.113 6930	.098				
					7912D	80	85		.014				
					7913D	85	90		.004				
					7914D	90	95		.002				
					7915D	95	100		TR				
					7916D	100	105	M.D. REGAN 10' Composites	.054				
					7917D	105	110		.003				
					7918D	110	115		.002				
					7919D	115	120		TR				
					7920D	120	125		TR				
					7921D	125	130		.007				
					7922D	130	135		TR				
					7923D	135	140		.010				
					7924D	140	145		.023				
					7925D	145	150		.158				

HOMESTAKE COMPUTER 10' Composites

Interval Grade

5-55 7.1%

55-80 79%

140-150

End of Hole

No Carbon noted in drill logs.

SAMPLE RECORD

ER: Joseph Niland PROJECT Toiyabe DRILL HOLE NO. DH 116 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
												Collar ELEV. 6951'
												SHAKE LEACH TEST
5½					0	5	4					INTERVAL / GOLD REC
		.027		8023D	5	10	.018 5	.026				5-15 / 21%
				8024D	10	15	4	.050				
		.025		8025D	15	20	.020 5	.004				
				8026D	20	25	4	.002				Begin Carb 25'
				8027D	25	30	5	.013				
				8028D	30	35		.002				
				8029D	35	40		.004				
				8030D	40	45		TR				
				8031D	45	50		.041				
				8032D	50	55						No Sample
				8033D	55	60		TR				
				8034D	60	65		.003				
				8035D	65	70		.006				
				8036D	70	75		.033				
				8037D	75	80		.005				
				8038D	80	85		.002				
				8039D	85	90		TR				
				8040D	90	95		TR				
				8041D	95	100		TR				Carbonaceous w/heavy pyrite
				8042D	100	105		TR				
				8043D	105	110		.002				
				8044D	110	115		TR				
				8045D	115	120		TR				
				8046D	120	125		TR				
				8047D	125	130		TR				
				8048D	130	135		TR				
				8049D	135	140		TR				
				8050D	140	145		.002				
				8051D	145	150		TR				

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

ER: Fred Bigony

PROJECT Toiyabe

DRILL HOLE NO. DH-118 PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
												Collar ELEV. 7003
					0	5	7000 3/2	—				
				8052D	5	10	5	.018				
				8053D	10	15	90 3/2	.004				Prob W/Circ. through cyclone,
				8054D	15	20	5	.004				effects sample.
				8055D	20	25	80 3/2	.011				Begin moderate Calc 20'
			.184	8056D	25	30	.177 5	.209				SHAKE LEACH TEST
				8057D	30	35	70 3/2	.241				INTERVAL GOLD EQ.
			.100	8058D	35	40	.104 5	.080				Begin mod to strong Calc 35'
				8059D	40	45	60 3/2	.052				
			.038	8060D	45	50	.036 5	.050				20-50 .1%
				8061D	50	55	2	.002				
				8062D	55	60		.003				
				8063D	60	65		.134				50-[illegible] [illegible]
				8064D	65	70		.072				
				8065D	70	75		.004				
				8066D	75	80		.002				
				8067D	80	85		.002				
				8068D	85	90		.026				
				8069D	90	95		.006				Sample increasingly Damp
				8070D	95	100		.058				
				8071D	100	105		.012				
				8072D	105	110		.035				Suspect Contamination
				8073D	110	115		.069				
				8074D	115	120		.090				95-130 [illegible]
				8075D	120	125		.104				
				8076D	125	130		.052				West Sampling, Foam
				8077D	130	135		.094				
				8078D	135	140		.108				Collar Blow out; Effect on
				8079D	140	145		.059				Sample
				8080D	145	150		.104				
				8081D	150	155		.144				
				8082D	155	160		.092				
				8083D	160	165		.056				
				8084D	165	170		.050				
				8085D	170	175		.048				
				8086D	175	180		.047				
				8087D	180	185		.030				
				8088D	185	190		.022				
				8089D	190	195		.012				
				8090D	195	200		.009				E.O.H.

HOMESTAKE COMPUTER 10' COMPOSITES

M. D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER: Joseph J. Niland PROJECT TOIYABE DRILL HOLE NO. DH-119 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
													Collar ELEV 7046
12/15/80	5½					0	5	5'					No Sample
					9034D	5	10		.013	.11			SHAKE ~~LEACH TEST~~
					9035D	10	15		.004	.25			Interval Gold Recov
					9036D	15	20	7030	.018	.17			
			.078		9037D	20	25	.077	.108	.15			
					9038D	25	30	7020	.230	.18			75%
			.226		9039D	30	35	.220	.248	.25			
					9040D	35	40	7010	.039	.21			
			.028		9041D	40	45	.028	.022	-.01			Good Recovery
					9042D	45	50	7000	.009	.18			
			.050		9043D	50	55	.050	.087	.14			35-60 50%
					9044D	55	60	6990	.031	.21			
					9045D	60	65		.013	.15			
					9046D	65	70		.002	.12			
					9047D	70	75		.004	-.01			
					9048D	75	80		.030	.15			
					9049D	80	85		.006	.11			
12/16/80					9050D	85	90		.003	.16			
					9051D	90	95		.003	-.01			
					9052D	95	100		.001	.32			
					9053D	100	105		.005	.13			
					9054D	105	110		.033	.15			
					9055D	110	115		.007	.12			
					9056D	115	120		.002	.14			
					9057D	120	125	6970	.001	.16			
					9058D	125	130		.013	.14			
			.044		9059D	130	135	.042	.063	-.01			130-145 82%
					9060D	135	140	6940	.100	.22			
			.072		9061D	140	145	.066	.056	.15			
					9062D	145	150	6900	.008	.14			
					9063D	150	155		.003	.14			
					9064D	155	160		.001	.10			
					9065D	160	165		.004	.14			
					9066D	165	170		.010	.15			
					9067D	170	175		.039	.35			
					9068D	175	180		.008	.12			
					9069D	180	185		.007	.10			
					9070D	185	190		.001	.18			
					9071D	190	195		.002	.18			DT. Bag Broke Loss of Sam
					9072D	195	200		.002	.08			E.O.H.

HOMESTAKE COMPUTER 10' COMPOSITES

M.A. REGAN 10' COMPOSITES

No Carbon noted in drill logs

SAMPLE RECORD
CR: F. Bigony

PROJECT TOIYABE

DRILL HOLE NO. DH-125

PAGE 1 OF 1

BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
												Collar ELEV 7002
					0	5 7000	2					Grab Sample
					5	11						" Shake Leach Test
				8182D	11	15		.009				Intervals / Gold Rec
				8183D	15	20		.010				
				8184D	20	25		.024				
				8185D	25	30		.020				
				8186D	30	35 6970	2/3	.018				
	.048			8187D	35	40 .049	5	.031				
				8188D	40	45 6960	2/3	.142				
	.068			8189D	45	50 .067	5	.033		50-60 .067		
				8190D	50	55 6950	2/3	.039				
	.042			8191D	55	60 .043	5	.014				
				8192D	60	65 6940	2/3	.120				
	.096			8193D	65	70 .096	5	.076				
				8194D	70	75 6930	3/3	.108				
	.045			8195D	75	80. .043	5	.022				Carbon Begin 75'
				8196D	80	85 6920	2	.003				
				8197D	85	90		.002				
				8198D	90	95		.001				
				8199D	95	100		.002				
				8200D	100	105		.003				
				8201D	105	110		.002				
				8202D	110	115		.011				
				8203D	115	120		.001				
				8204D	120	125		.002				
				8205D	125	130		.005				
				8206D	130	135		.001				Hard, Slow drilling,
				8207D	135	140		.002				Small Sample
				8208D	140	145		.001				Damp, Then Dry again
				8209D	145	150		.009				E.O.H.

HOMESTAKE COMPUTER 10' COMPOSITES

M.D. REGAN 10' COMPOSITES

SAMPLE RECORD

SAMPLER:

PROJECT TOIYABE

DRILL HOLE NO. DH-132

DATE FILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS Collar Elev - 6965
31						0	5	6960					Spud - No Sample
					8326D	5	10		.002				Rotary drilling
					8327D	10	15	6955	.002				
					3828D	15	20		.003				
					8329D	20	25	6950	.016				
					8330D	25	30		.021				
					8331D	30	35	6930	.049				
					8332D	35	40		.102				
					8333D	40	45	6920	.050				
					8334D	45	50		.101				
					8335D	50	55	6910	.064				
					8336D	55	60		.074				
					8337D	60	65	6900	.031				
					8338D	65	70		.056				Begin Carbon 65'
					8339D	70	75		.073				
					8340D	75	80		.088				
					8341D	80	85		.086				
					8342D	85	90		.034				
					8343D	90	95		.033				
					8344D	95	100		.013				
					8345D	100	105		.076				
					8346D	105	110		.065				
					8347D	110	115		.222				
					8348D	115	120		.092				
					8349D	120	125		.020				
					8350D	125	130		.009				
					8351D	130	135		.014				
					8352D	135	140		.031				
					8353D	140	145		.007				
					8354D	145	150		.004				
					8355D	150	155		.004				
					8356D	155	160		.005				
					8357D	160	165		.011				Put Hammer Bit on
					8358D	165	170		.004				
					8359D	170	175		.003				
					8360D	175	180		TR				
/6/81					8361D	180	185		.002				~~E.O.S~~
/7/81					8362D	185	190		.003				Wet drilling (added water)
					8363D	190	195		.003				sample overflow
					8364D	195	200		.006				
					8365D	200	205		.003				
					8366D	205	210		.003				
					8367D	210	215		.003				
					8368D	215	220		.004				
					8369D	220	225		.005				No log.
					8370D	225	230		.003				Part of 40 lbs.
					8371D	230	235		.003				
					8372D	235	240		.002				
/7/81					8373D	240	245		TR				~~E.O.S. Water Pump broke~~
/9/81					8374D	245	250		.001				
					8375D	250	255		TR				
					8376D	255	260		-.001				
					8377D	260	265		-.001				

APPENDIX II

RESERVE CALCULATIONS

RESERVE CALCULATIONS - PROVEN & PROBABLE

(.0302 per Ton Cutoff)

Bench	Hole #	Area ft²	Tons	Grade	Oz./Av.
7030-7040	102*	12,033	9452	.087	822
7020-7030	102*	12,033	9452	.232	2193
	119*	11,170	8775	.077	676
7010-7020	68*	13,600	10692	.040	428
	119*	11,170	8775	.220	1930
	102*	12,033	9452	.192	1815
	105	7,550	5931	.064	380
	100	10,125	7954	.115	915
	51	5,100	4006	.041	164
	39	3,250	2553	.032	82
7000-7010	51	8,400	6599	.102	673
	39	3,850	3024	.032	97
	105	8,200	6441	.086	554
	102*	12,033	9452	.079	747
	68*	13,600	10683	.030	320
6990-7000	113*	9,300	7306	.038	278
	119*	11,170	8775	.050	439
	108*	10,600	8327	.049	408
	39	3,850	3024	.042	127
	68	13,600	10683	.125	1335
6980-6990	108*	10,600	8327	.094	783
	49	3,600	2828	.041	116
	3	1,300	1021	.065	66
	48	7,550	5931	.031	184
	55	4,850	3810	.068	259
	105	8,200	6441	.085	547
	51	8,400	6599	.052	343
	37	1,300	1021	.061	62
	38	1,700	1335	.068	91
	25	3,900	3064	.083	254

*Probable

Reserve Calculations - Proven & Probable - Continued

Bench	Hole #	Area ft²	Tons	Grade	Oz./Av.
6970-6980	113*	9,300	7306	.046	336
	104*	9,450	7423	.133	987
	108*	10,600	8327	.240	1998
	49	3,600	2828	.045	127
	39	3,850	3024	.093	281
	48	7,550	5931	.099	587
	51	8,400	6599	.108	713
	56	5,933	4661	.190	886
	99	9,267	7280	.147	1070
	118	9,500	7463	.177	1321
	3	3,250	2553	.048	123
	55	7,800	6127	.046	282
6960-6970	101*	9,700	7620	.226	1722
	104*	9,450	7423	.061	453
	108*	10,600	8327	.068	566
	49	3,600	2828	.050	141
	39	3,850	3024	.148	448
	48	7,550	5931	.038	225
	125	6,500	5106	.049	250
	100	10,125	7954	.033	262
	56	4,650	3653	.112	409
	(56)mixed	1,400	1100	(.112)mixed	123
	99	9,267	7287	.085	619
	118	1,600	1257	.104	131
	(118)mixed	3,100	2435	(.104)mixed	253
	37	2,900	2278	.087	198
6950-6960	101*	9,700	7620	.302	2301
	104*	9,450	7423	.041	304
	49	3,600	2828	.052	147
	39	3,850	3024	.042	127
	125	6,500	5106	.067	342
	26	5,050	3967	.163	647
	37	2,900	2278	.078	178
	35	4,933	3875	.052	202
	24	2,150	1689	.040	68
6940-6950	113*	9,300	7306	.054	395
	101*	9,700	7620	.100	762
	104*	9,450	7423	.048	356
	125	6,500	5106	.043	220
	26	5,050	3967	.150	595
	37	2,900	2278	.043	98
	55 oxide	6,750	5302	.057 oxide	30
	(55) mixed	(2,400)	(1885)	(.057)mixed	(107)
	35	6,300	4949	.196	970
	24	2,400	1885	.115	217

*Probable

Reserve Calculations - Proven & Probable - Continued

Bench	Hole #	Area ft²	Tons	Grade	Oz./Av.
6930-6940	113*	9,300	7306	.113	826
	104*	9,450	7423	.033	245
	125	6,500	5106	.096	490
	26	5,050	3967	.068	270
	53/132	2,400	1885	.043	81
	35	6,300	4949	.050	247
	38	3,250	2553	.046	117
	25	3,700	2907	.043	125
	55/oxide	1,950	1532	.167 oxide	256
	(55)mixed	(3,700)	(2907)	(.167)mixed	(485)
	24	2,400	1885	.093	175
*Probable	36	6,100	4792	.083	398
6920-6930	68*	9,600	7541	.038	286
	125	3,200	2514	.043	108
	37	2,900	2278	.050	114
	53	12,000	9427	.076	716
	38	2,950	2317	.048	111
	107	11,100	8720	.057	497
	35	6,300	4949	.085	421
	24	2,400	1885	.048	90
	101*	9,700	7620	.051	389
	55 mixed	950	746	(.154)mixed	(115)
6910-6920	68*	8,900	6991	.053	371
	119*	9,850	7738	.042	325
	101*	9,700	7620	.035	267
	53	12,000	9427	.080	754
	35	6,300	4949	.034	168
	39	2,650	2082	.040	83
6900-6910	119*	9,550	7502	.068	510
	101*	9,700	7620	.067	511
	53	12,000	9427	.043	405

*Probable

APPENDIX III

PLANIMETER

WORK SHEETS

PLANIMETER Notes

M.D. REGAN
5/10/86

POLYGON #	PLANIMETER Readings			Area ft²
107	~~88.74~~	89.85		
	~~87.63~~	~~88.74~~		11,100
	1.11	1.11		
35	92.74	93.37		6300
	92.11	92.74		
	.63	.63		
36	94.57	97.03	95.72	6100
	93.95	96.43	95.12	
	.62	.60	.60	
24	95.97	96.19	96.43	2400
	95.72	95.97	96.19	
	.25	.22		
116	96.72	97.72		10,000
	95.71	96.72		
	1.01	1.00		

Planimeter Notes

M O'Regan
5/19/86

POLYGON #	PLANIMETER READINGS				Area ft^2
55	98.69	99.63			9550
	97.72	98.69			
	.97	.94			
25	08.15	08.81			6650 ft^2
	07.48	08.15			
	.67	.66			
38	~~09.19~~	09.92	09.55		3650 ft^2
	~~09.24~~	09.55	09.19		
	0.28	0.37	0.36		
3	~~16.38~~	17.41	16.88	17.92	5100 ft^2
	~~15.93~~	16.88	16.38	17.41	
	~~.45~~	.53	0.50	0.51	
56	18.51	19.13			6050 ft^2
	17.92	18.51			
	0.59	0.62			
37	15.85	16.15			2900 ft^2
	15.57	15.85			
	0.28	0.30			

PLANIMETER Notes

M.D. Regan
5/19/86

Polygon #	PLANIMETER Readings				Area ft²
26	16.69	17.65	17.16	18.17	5050 ft²
	16.15	17.16	16.69	17.65	
	.54	.49	.47	0.52	
53/132	19.37	20.57			12000 ft²
	18.17	19.37			
	1.20	1.20			
125	21.05	21.70			600 ft²
	20.40	21.05			
	0.65	0.65			
57	22.52	23.27			8400 ft²
	21.70	22.52			
	0.82	0.75			
56	23.99	24.55	25.14	25.74	5933 ft²
	23.37	23.99	24.55	25.12	
	0.62	.56	.59	.62	
99	29.52	30.45	31.38		9267 ft²
	28.60	29.52	30.45		
	.92	0.93	0.93		

M. O'Regan
5/19/86
p.4

Planimeter Notes

polygon #	Planimeter Readings				Area ft²
49	42.86	43.23			3600 ft²
	42.51	42.86			
	.35	.37			
119	40.21	41.32	42.43		11170 ft²
	39.08	40.21	41.32		
	1.13	1.11	1.11		
68	43.81	45.15	46.51		13600 ft²
	42.43	43.81	45.15		
	1.38	1.34	1.36		
65	47.52	48.58	49.67	50.71	10,500 ft²
	46.51	47.52	48.58	49.67	
	1.01	1.06	1.09	1.04	
113	48.11	49.04			9300 ft²
	47.18	48.11			
	.93	.93			
101	43.14	44.11			9100 ft²
	42.17	43.14			
	.97	.97			

PLANimater Notes

M.D. Regan
5/19/86

polygon #	Planimeter Readings				Area ft²
118	32.32	33.28	34.25		9500
	31.38	32.32	33.28		
	.94	.96	0.97		
100	28.42	31.49	30.46	32.45	10125
	28.43	30.42	29.42	31.49	
	.99	1.03	1.04	.99	
105	32.31	34.12			8200 ft²
	32.48	33.31			
	.82	.81			
102	~~35.38~~	36.57	37.79	38.99	12,0330
	~~34.11~~	35.38	36.57	37.79	
	~~1.27~~	1.19	1.22	1.20	
39	40.61	41.00			3850 ft²
	40.23	40.61			
	.38	0.39			
48	41.75	42.51			
	41.00	41.75			
	.75	.76			

Planimeter Notes

P5
M D Rega
5/19/86

Polygon #	Planimeter Readings			Area ft²
104	45.06	46.00		9450
	44.11	45.06		
	.95	.94		
108	48.27	49.27	50.31	10,600
	47.18	48.22	49.27	
	1.09	1.05	1.04	

Test Disk
10 m²

83.89	93.90	03.91	05.80
73.88	83.89	93.90	05.77
10.01	10.01	10.01	10.03

Avg 10.015

CALCULATION SHEET

DATE

DESIGN BY MDR DATE 5/20/86 CHECKED BY SHEET NO.

PROJECT Toiyabe PROJECT NO.

SUBJECT Areas modified by surface & caving FILE NO.

Bench 7010–7020

Hole # 51

67.06	67.56	68.08	5100 ft²
66.26	67.06	67.56	
.80	.50	.52	

Hole 39

68.41	68.73	3250 ft²
68.08	68.41	
.33	.32	

Hole 105

62.71	63.47	64.22	7550 ft²
61.91	62.71	63.47	
.80	.76	.75	

Bench 6980–90

Hole 37

68.23	68.36	1300 ft²
68.10	68.23	
.13	.13	

Hole 38

68.90	69.08	1700 ft²
68.72	68.90	
.18	.18	

Hole 25

69.45	69.84	3900 ft²
69.06	69.45	
.39	.39	

Hole 5

92 01 40
93 00.92
.49 .48
4850 ft²

Hole 3

2.39
2.25
.14
2.51
2.39
.12
300 ft²

Bench 6970–80

Hole 27

50.62	50.85	2250 ft²
50.40	50.62	
.22	.23	

Hole 3

51.05	51.39	3250 ft²
50.73	51.05	

Hole 55

96.45	97.24	7800 ft²
95.68	96.45	
.77	.79	

Bench [illegible]

Drill hole 65

67.00	67.25	
66.75	67.00	
.25	.25	

2500 ft²

CALCULATION SHEET

DATE

SIGN BY NDR DATE 5/29/84 CHECKED BY SHEET NO.

PROJECT Toledo PROJECT NO.

SUBJECT Areas modified by surface & curbs FILE NO.

Hole 55 99.84 99.91 100.05 100.14
99.74 99.89 99.91 100.05
.10 .07 .14 .09

950 ft²

9600 ft²

Hole 38

8930 8999

2950 ft²

Hole 119

83.75 84.75
82.78 83.75
.97 1.00

8850 ft²

9350

CALCULATION SHEET

DESIGN BY MOC DATE 5/20/26 CHECKED BY _____ DATE _____ SHEET NO. _____

PROJECT Tovala PROJECT NO. _____

SUBJECT (Bench 6950 – 6970) Approximate Area of Mixed w carbon & Oxidized FILE NO. _____

Hole 118

52.84	53.00	1600 ft²	Oxidized
52.68	52.84		
.16	.16		
~~53.56~~	53.73	54.02	2100 ft²
~~53.22~~	53.56	52.78	
.34	.17	.24	
53.60	53.80	1000 ft²	total Mixed 3100 ft²
53.70	53.70		
.10	.10		

Hole 56

52.32	53.17	1400 ft²	Mixed
52.19	52.32		
.13	.15		
52.84	60.50		Oxidized
	14.00		
	46.50		

(Bench 6950 – 6960)

Hole 24

58.56	58.77	2150 ft²
58.34	58.56	
.22	.21	

Hole 55

59.25	59.76	60.25	4933 ft²
58.77	59.25	59.76	
.48	.51	.49	

CALCULATION SHEET

(4)

DATE

DESIGN BY MOR DATE 5/2/94 CHECKED BY SHEET NO.

PROJECT Toivala PROJECT NO.

SUBJECT Areas Modified by surface & Contour FILE NO.

Bench 6940-6950

Hole 55

31.00	31.24	Mixed 2400 ft²
30.76	31.00	
.24	.24	

31.88	32.55	33.23	6750 ft² Oxide
31.64	31.88	32.55	
.24	.67	.68	

Bench 6930-6940

Hole 55/21

17.96	18.33	18.70	3700 ft² Mixed
17.74	17.96	18.33	
.22	.37	.37	

18.81	19.09	1950 ft² Oxide
18.62	18.89	
.19	.20	

Hole 25

18.20	18.58	3700 ft²
17.84	18.20	
.36	.38	

Hole 38

18.90	19.23	3250 ft²
18.58	18.90	
.32	.33	

APPENDIX IV

STATISTICAL COMPARISON OF

DRILL HOLE ASSAY DATA

HOMESTAKE MINING CO. MEMO 4/6/81.

HOMESTAKE MINING COMPANY
CORRESPONDENCE — INTER-OFFICE

TO Bill Hallager

FROM Jim Cooper

DATE April 6, 1981

SUBJECT Statistical Comparison of Drill Hole Assays. Toiyabe

As we discussed today, I have enclosed the data relating to the comparison of assays from drill holes, drilled within five feet of each other, for the purpose of determining mineral continuity, comparison of core to rotary drill results and, perhaps, reliability of assays from early drill holes. It would also be interesting to compare core to rotary results by assay ranges.

I have tabulated comparable ore-zone intervals from adjacent holes and calculated mean, standard deviation and variance. I would like to have a statisical comparison of the data in order to learn how meaningful the data are, and any conclusions you can draw from the information.

The reliability of the statistical analysis may be limited by the number of samples available, but I wanted to make a "first pass" comparison to learn if there is any benefit or need to pursue this line of study.

Visual inspection leads me to believe that mineral variation between drill holes may account for the differences between holes. There is an apparent lower mean value for core holes than for rotary within the intervals I compared. However, the rotary hole, by providing a larger sample may, in reality, give a more representative sample than the core holes.

The tabulation below shows the comparable new core, new rotary and old rotary, ore and waste holes. I am most interested in the ore grade zone but I have included data on waste holes also.

NEW CORE	NEW ROTARY	OLD ROTARY	
126	132	53	Ore
131		55	Ore
133	101		Ore
	114	23	Waste
	122	5	Waste

The core holes have the percent sample recovery shown on the sample record sheet. The rotary holes all had at least 80 percent recovery unless otherwise noted on the sample sheet.

I look forward to hearing your results and comments as soon as you've had an opportunity to analyse the data.

JJC:lw
Enc.

STATISTICAL COMPARISON AMONG ASSAYS OF DUPLICATE DRILL HOLES

FOOTAGE	ASSAYS DH-53	DH-132	DH-126	DIFFERENCE DH-53 & 132 (NOTE: +=132 is> -=132 is<)	DH-53 & 126 (NOTE: +=126 is> -=126 is<)	DH-132 & 126 (NOTE: +=126 is> -=126 is<)
0-5	.005		.005			
5-10	TR	.002	.002			
10-15	TR	.002	.003			
15-20	TR	.003	.003			
20-25	.010	.016	.018			
25-30	.005	.021	.080	+.016	+.075	+.059
30-35	.015	.049	.013	+.035	+.002	-.036
35-40	.005	.102	.037	+.097	+.032	-.065
40-45	.125	.050	.032	-.075	+.093	-.018
45-50	.085	.101	.057	+.016	-.028	-.044
50-55	.103	.064	.033	-.039	-.07	-.031
55-60	.130	.074	.010	-.056	-.12	-.064
60-65	.080	.031	.061	-.049	-.019	+.03
65-70	.100	.056	.062	-.044	-.038	+.006
70-75	.090	.073	.003	-.017	-.087	-.070
75-80	.095	.088	.002	-.007	-.093	-.086
80-85	.060	.086	.037	+.026	-.023	-.049
85-90	.040	.034	.010	-.006	-.03	-.024
90-95	.060	.033	.069	-.027	+.009	+.036
95-100	.075	.013	.052	-.062	-.023	+.039
100-105	.040	.076	.087	+.036	+.047	+.011
105-110	.055	.065	.026	+.01	-.029	-.039
110-115	.110	.222	.04	+.112	-.07	-.182
115-120	.010	.092	.021	+.082	+.011	-.071
120-125	.005	.020	.006			
125-130	.005	.009	.027			
130-135	.010	.014	.054			
135-140	.005	.031	.028			
140-145	.005	.007	.030			
145-150	.005	.004	.004			
NUMBER OF OBSERVATIONS	19	19	19			
Mean	.067	.07	.038	.046	.051	.050
S. Dev	.039	.045	.025	.030	.034	.038
Var.	.0015	.0019	.0006	.0003	.0011	.0014

STATISTICAL COMPARISON AMONG ASSAYS OF DUPLICATE DRILL HOLES

FOOTAGE	ASSAYS DH-101	ASSAYS DH-133	DIFFERENCE DH-101 & 133
			NOTE: +=133> -=133<
0-5			
85-90	TR	.043	+.043
90-95	TR	.173	+.173
95-100	.024	.201	+.177
100-105	.257	.183	-.074
105-110	.310	.115	-.195
110-115	.356	.143	-.213
115-120	.206	.134	-.072
120-125	.103	.019	-.084
125-130	.024	.006	-.018
130-135	.010	.030	+.020
135-140	.054	.006	-.048
140-145	.038	.017	-.021
145-150	.070	.006	-.064
150-155	.018	.017	-.001
155-160	.039	.028	-.011
160-165	.042	.017	-.025
165-170	.127	.006	-.121
170-175	.068	.013	-.055
NUMBER OF OBSERVATIONS	18	18	18
Mean	.094	.067	.078
S. Dev.	.108	.069	.068
Var.	.011	.004	.004

STATISTICAL COMPARISON AMONG ASSAYS OF DUPLICATE DRILL HOLES

FOOTAGE	ASSAYS O-R DH-55	 C DH-131	DIFFERENCE O-R C DH-55 & 131
			NOTE: +=131> -=131<
50-55	.255	.015	-.240
55-60	.195	.062	-.133
60-65	.185	.038	-.147
70-75	.073	.009	-.064
75-80	.010	.085	+.075
100-105	TR	.066	+.066
105-110	.005	.121	+.116
110-115	.005	.057	+.052
115-120	.005	.120	+.115
135-140	.01	.053	+.043
140-145	.01	.102	+.092
NUMBER OF OBSERVATIONS	11	11	11
Mean	.068	.066	.1036
S. Dev.	.096	.038	.056
Var.	.008	.0013	.0028

M. D. REGAN & ASSOCIATES
MINERALS . . . Exploration - Appraisal - Development

P.O. BOX 14663
EAST 9209 MISSION AVE., SUITE P-1
SPOKANE, WA 99214

(509) 926-2001

MDR Copy

M E M O

TO: J. Wark

FROM: M. D. Regan

DATE: June 5, 1986

SUBJECT: Exploration Potential & Recommendations
Toiyabe Project, Lander Co., Nevada

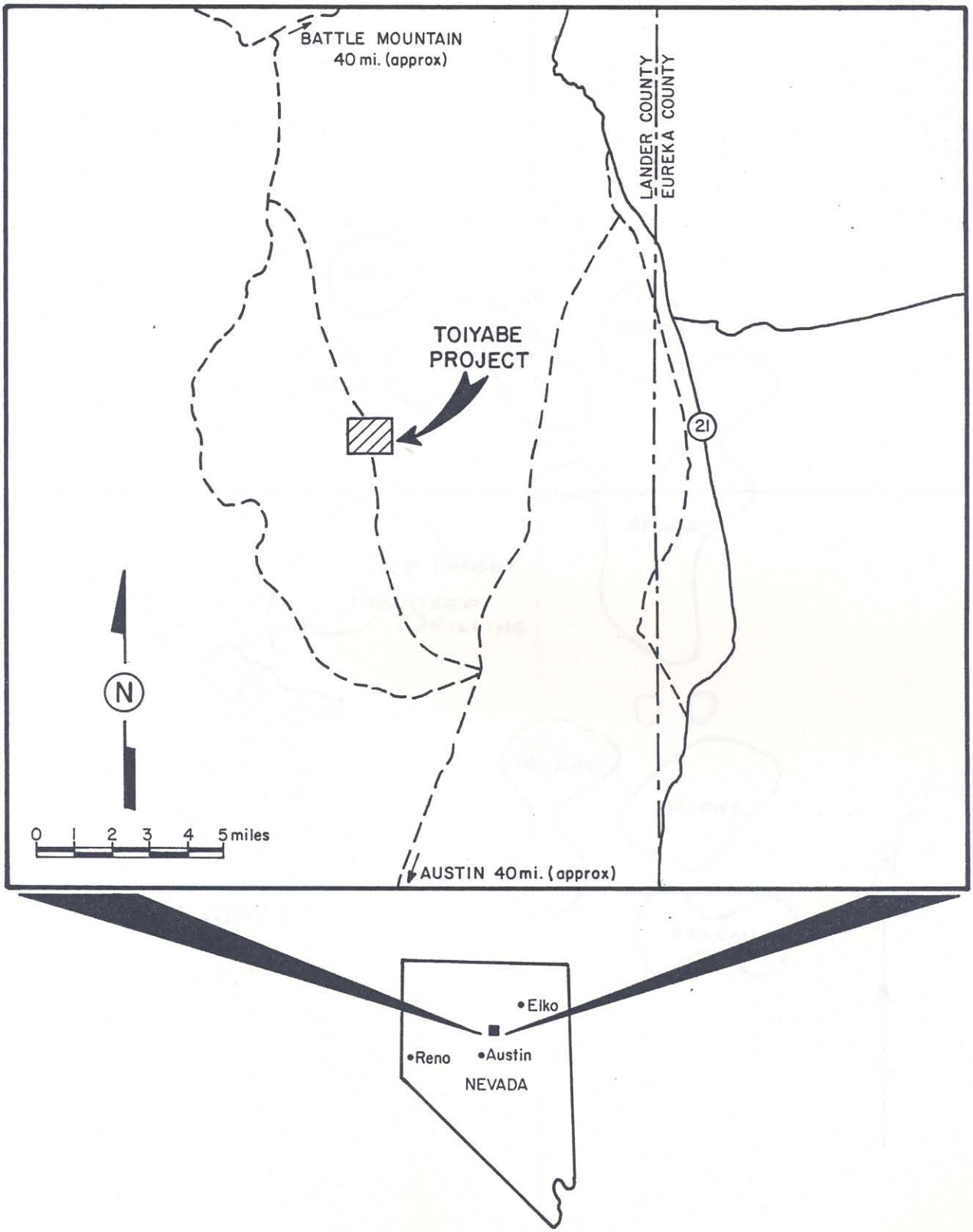
Summary and Recommendations

Two thousand seven hundred feet of exploration reverse circulation rotary drilling is recommended to test an ore target immediately north of the Saddle deposit. This target has exploration potential for at least 12000 oz. of surface minable, heap leachable gold. Surface geologic mapping and geochemical sampling is recommended to further evaluate scattered gold and arsenic anomalies elsewhere on the Toiyabe claims. It is further recommended that 2500 feet of drilling be budgeted to follow up on this surface mapping and sampling program.

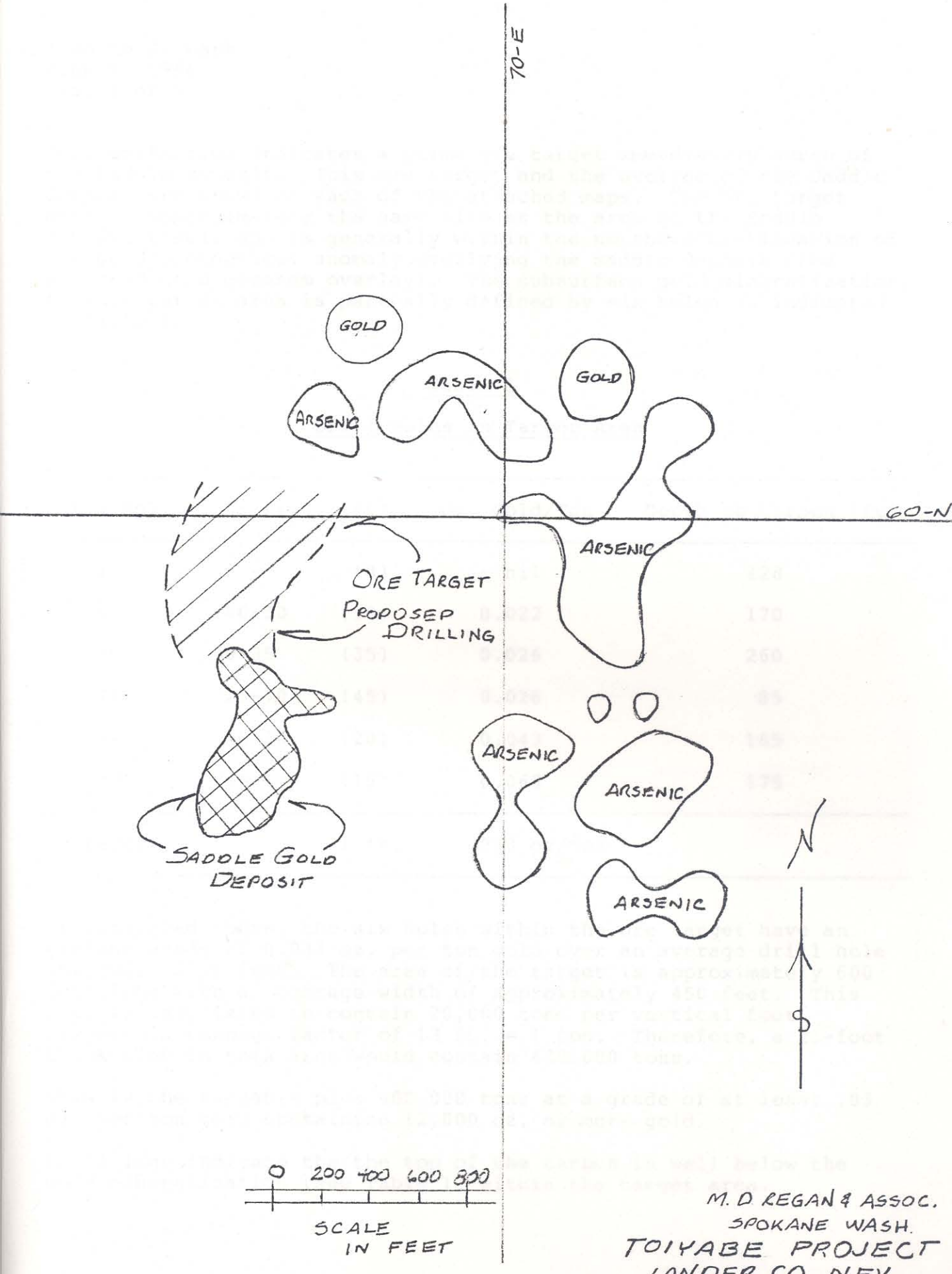
Discussion

Drilling by Homestake Mining Company over the past 20 years at Toiyabe resulted in the discovery and delineation of a surface minable gold deposit, amenable to heap leaching, named by Homestake, the Saddle deposit. Homestake´s drilling data indicates that the Saddle deposit contains a geologic reserve of proven and probable ore estimated to contain 587,000 tons at a grade of .087 oz. gold per ton. Scattered Homestake drilling elsewhere in the large, plus 400 claim property block met with variable success. However, the exploration potential of this large property was not fully evaluated by the scattered Homestake drilling.

As a followup to my ore reserve evaluation (Regan, May 1986, Ore Reserve Evaluation, Saddle Deposit, Toiyabe Project), I examined the Homestake data regarding the property´s exploration potential for additional reserves of surface minable, heap leachable ore outside the Saddle deposit. The Homestake data examined included drill hole assay logs and geological logs, arsenic and gold soil and/or rock, geochemical maps (samples on a 200 foot grid), a surface geological map, and a drill hole location map. Revised copies of all these maps are attached to this memo.



TOIYABE PROJECT LOCATION MAP



M. D. REGAN & ASSOC.
SPOKANE WASH.
TOIYABE PROJECT
LANDER CO, NEV.
SADDLE GOLD DEPOSIT
& EXPLORATION TARGE
M. D. REGAN 6/5/8

This evaluation indicates a prime ore target immediately north of the Saddle deposit. This ore target and the outline of the Saddle deposit are shown on each of the attached maps. The ore target area is approximately the same size as the area of the Saddle deposit itself and is generally within the northern continuation of the gold geochemical anomaly overlying the Saddle deposit (see attached gold geochem overlay). The subsurface gold mineralization in this target area is partially defined by six holes as indicated in Table 1.

Table 1

Drill Holes in Target Area

Drill Hole	Interval (ft)		Oz. Gold/Ton	Depth to Carbon (ft)
17	-	(0)	- nil	128
67	40-50	(10)	0.022	170
70	0-35	(35)	0.026	260
72	25-70	(45)	0.026	85
74	50-70	(20)	0.043	165
75	95-110	(15)	0.068	175
Averages		21 ft.	.033 oz/ton	

As indicated above, the six holes within the ore target have an average grade of 0.033 oz. per ton gold over an average drill hole interval of 21 feet. The area of the target is approximately 600 feet long with an average width of approximately 450 feet. This area is calculated to contain 20,000 tons per vertical foot assuming a tonnage factor of 13 ft. = 1 ton. Therefore, a 21-foot thick slab in this area would contain 420,000 tons.

This is the target - plus 400,000 tons at a grade of at least .03 oz. per ton gold containing 12,000 oz. or more gold.

Drill logs indicate the the top of the carbon is well below the gold mineralization (see Table 1) within the target area.

Shallow carbon appears to limit the target area to the west. The target area is open ended on the north with the two holes having the best gold grades being located at the northern end of the area as presently defined. This gives reason to believe that the mineralization may extend farther north.

Further geologic mapping and surface sampling of this target is not required prior to drilling. A total of 2700 feet of drilling is recommended. The program should involve approximately 27 holes, 100 feet deep on approximately a 100-foot grid. The approximate locations of the recommended holes are shown on the attached drill hole location map. A one-day field examination of the site will be required to firmly locate the hole sites, and the final site locations may be changed somewhat as the result of the field review.

Deeper gold mineralization is also indicated by two holes immediately east of the ore target described above. This mineralization appears to be too deep and too low grade to be considered at this time. However, the area may be reconsidered as work progresses. The following Table 2 tabulates the holes in this eastern area.

Table 2

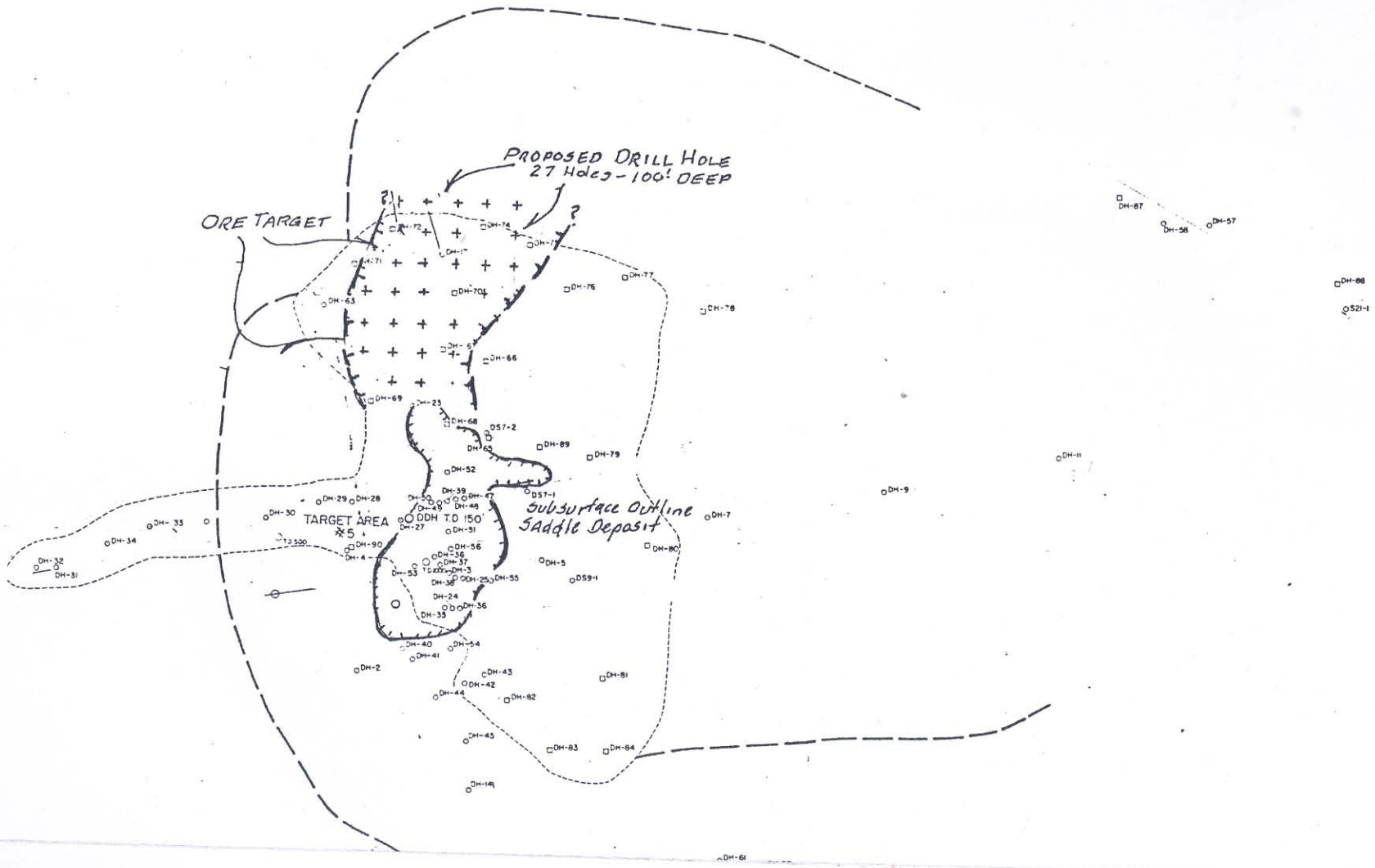
Drill Holes East of Ore Target

Drill Hole	Interval (ft)	Oz. Gold/Ton	Depth to Carbon (ft)
66	135-150 (15)	0.03	160
76	145-165 (20)	0.08	260

No other well defined drill targets are recognized from the data available for review at this time; however, the arsenic anomalies and small scattered gold anomalies lying generally north and east of the ore target and east of the Saddle deposit should be evaluated in more detail prior to drilling. Soil and rock sampling on a 100-foot grid is recommended in these areas. The samples should be analyzed for gold, arsenic, mercury, and antimony. The anomalous areas should also be geologically mapped at a scale of 1" = 100 feet. After this work is completed, drilling will very likely be warranted in the most favorable areas. Approximately 2500 feet of drilling should be budgeted to followup on the geological mapping and geochemical sampling program.

M D Regan

M. D. Regan

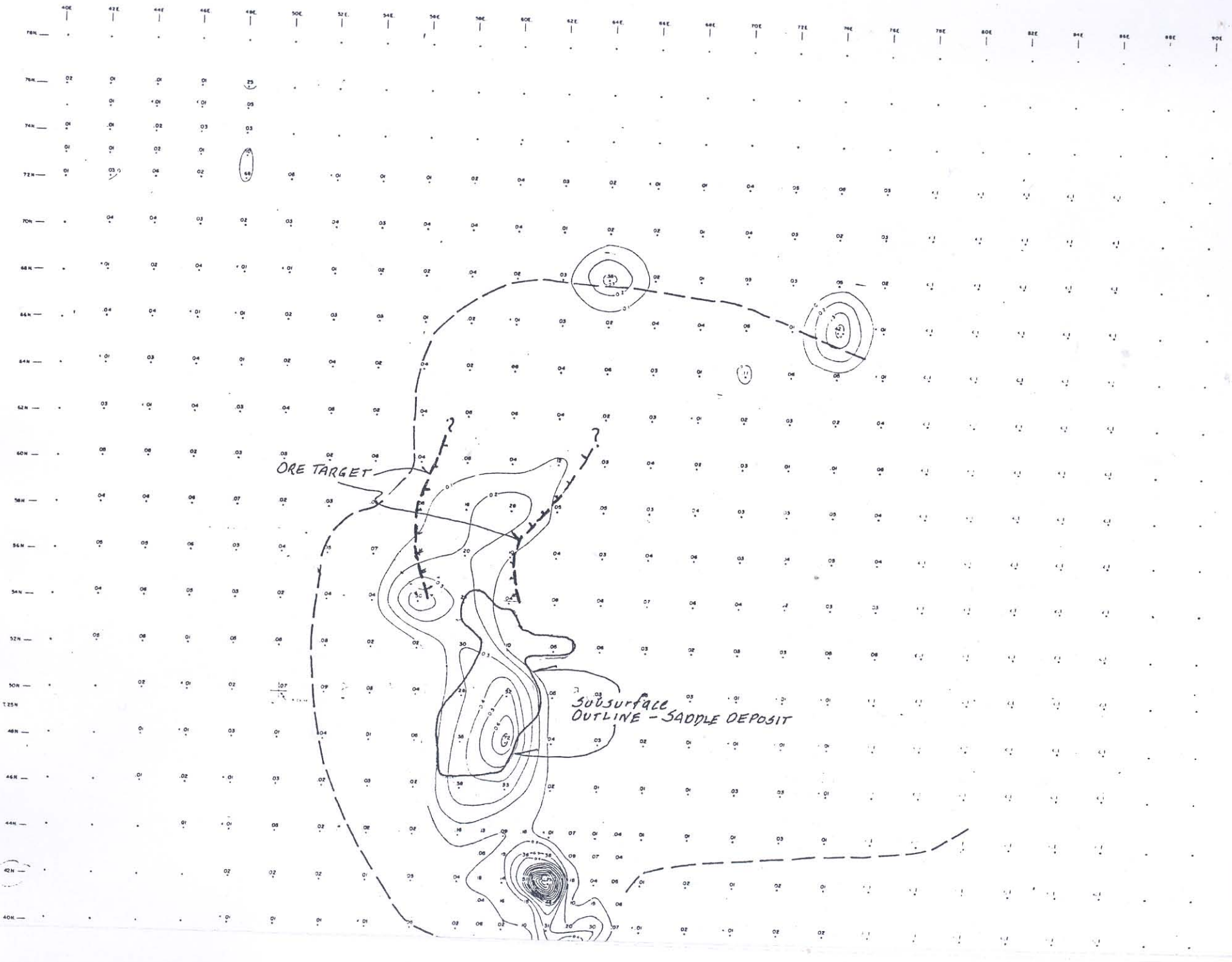

PROPOSED DRILL HOLE
27 Holes - 100' DEEP
ORE TARGET
TARGET AREA
#5
DDH T.D 150'
Subsurface Outline
Saddle Deposit
DH-87
DH-58
DH-57
DH-88
S21-1
DH-11
DH-9
DH-7
DH-80
DH-5
DS9-1
DH-81
DH-20
DH-61
DH-14
DH-45
DH-83
DH-84
DH-44
DH-82
DH-43
DH-42
DH-2
DH-41
DH-40
DH-54
DH-33
DH-24
DH-36
DH-55
DH-25
DH-38
DH-53
DH-3
DH-37
DH-36
DH-56
DH-4
DH-90
DH-51
DH-27
DH-48
DH-50
DH-47
DH-46
DH-39
DS7-1
DH-52
DH-65
DS7-2
DH-68
DH-23
DH-69
DH-66
DH-57
DH-70
DH-63
DH-71
DH-72
DH-74
DH-77
DH-76
DH-78
DH-79
DH-89
DH-28
DH-29
DH-30
DH-33
DH-34
DH-32
DH-31

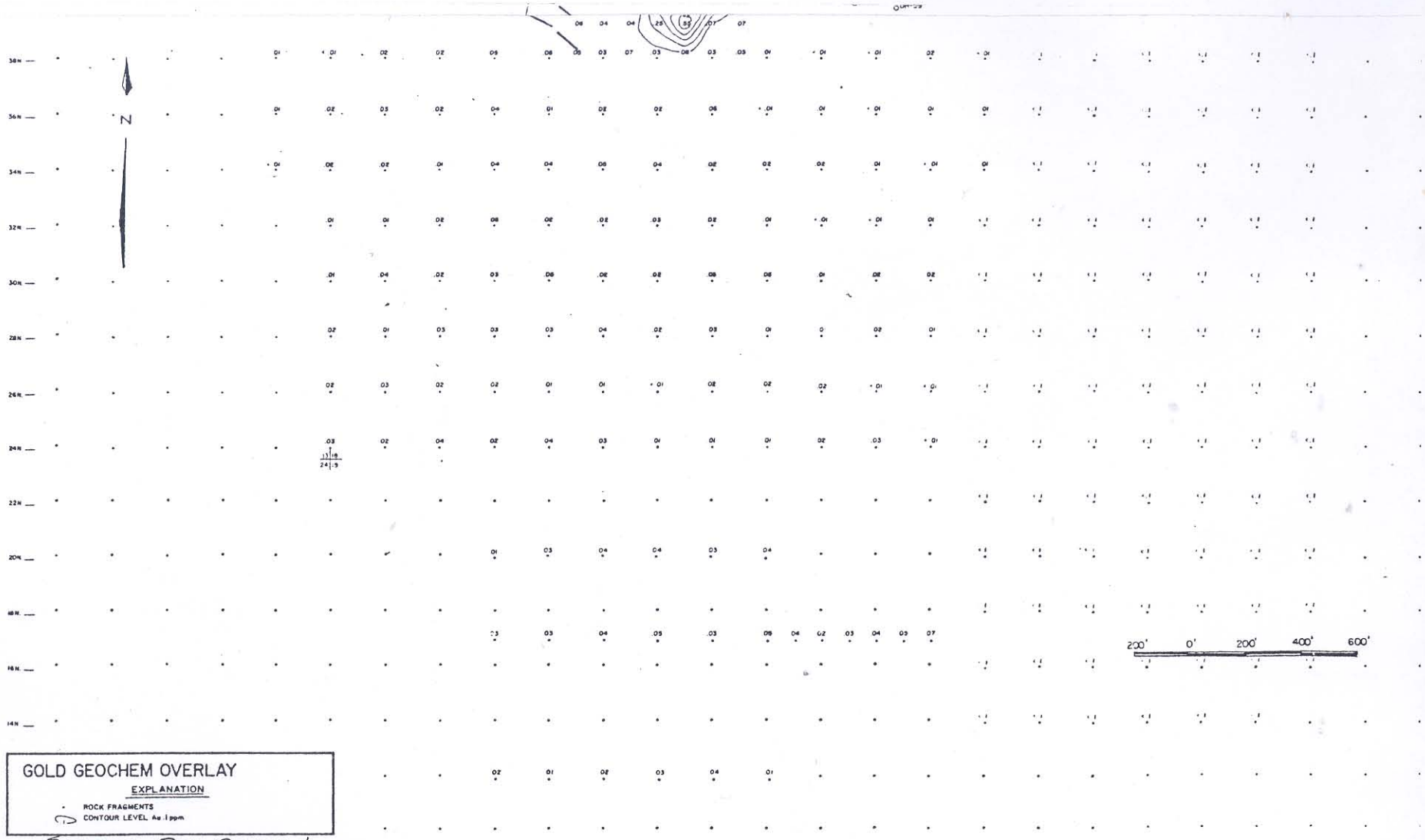
DRILL HOLE OVERLAY

EXPLANATION

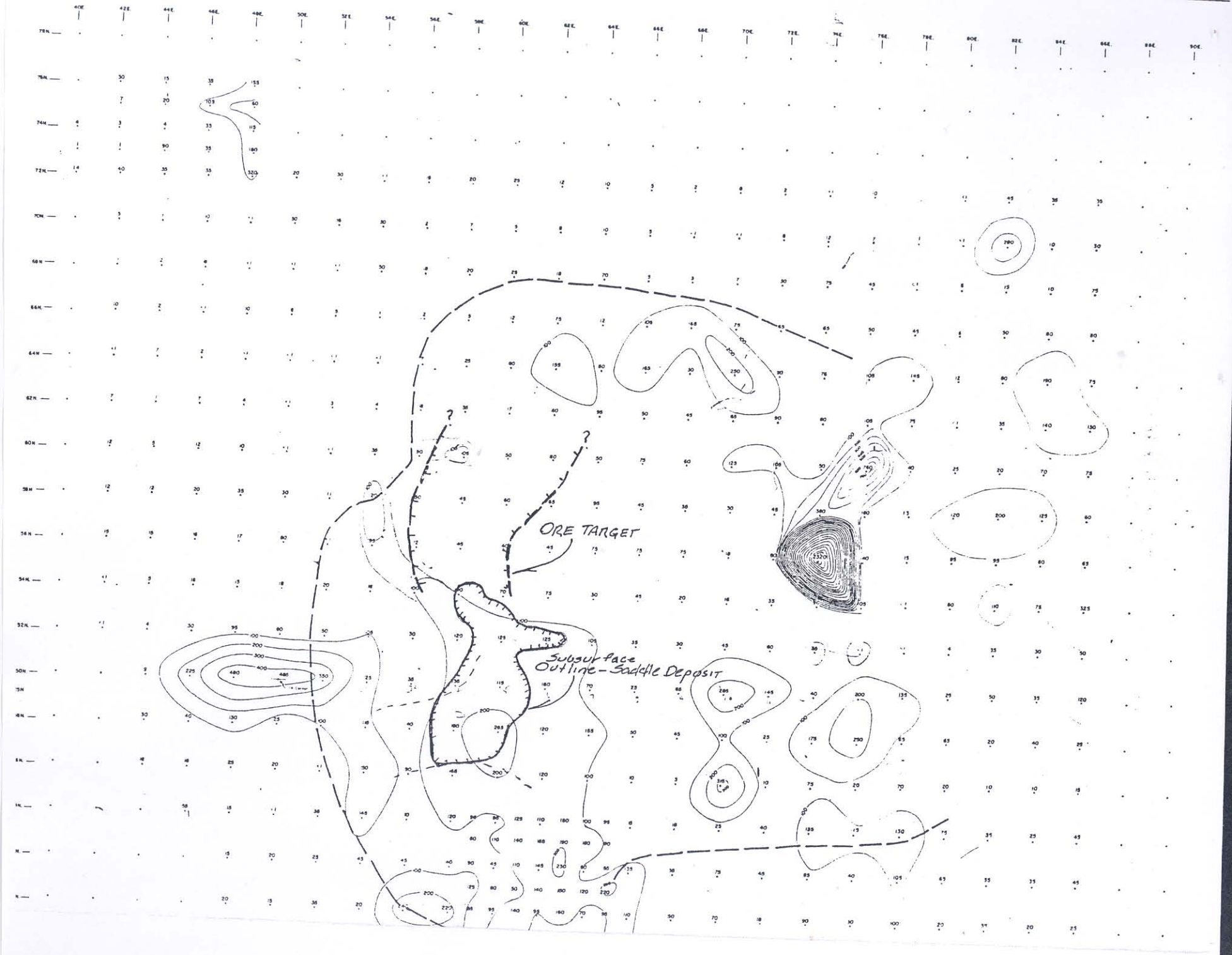
- HMC, GETTY DDH
- HMC DDH 1978-79

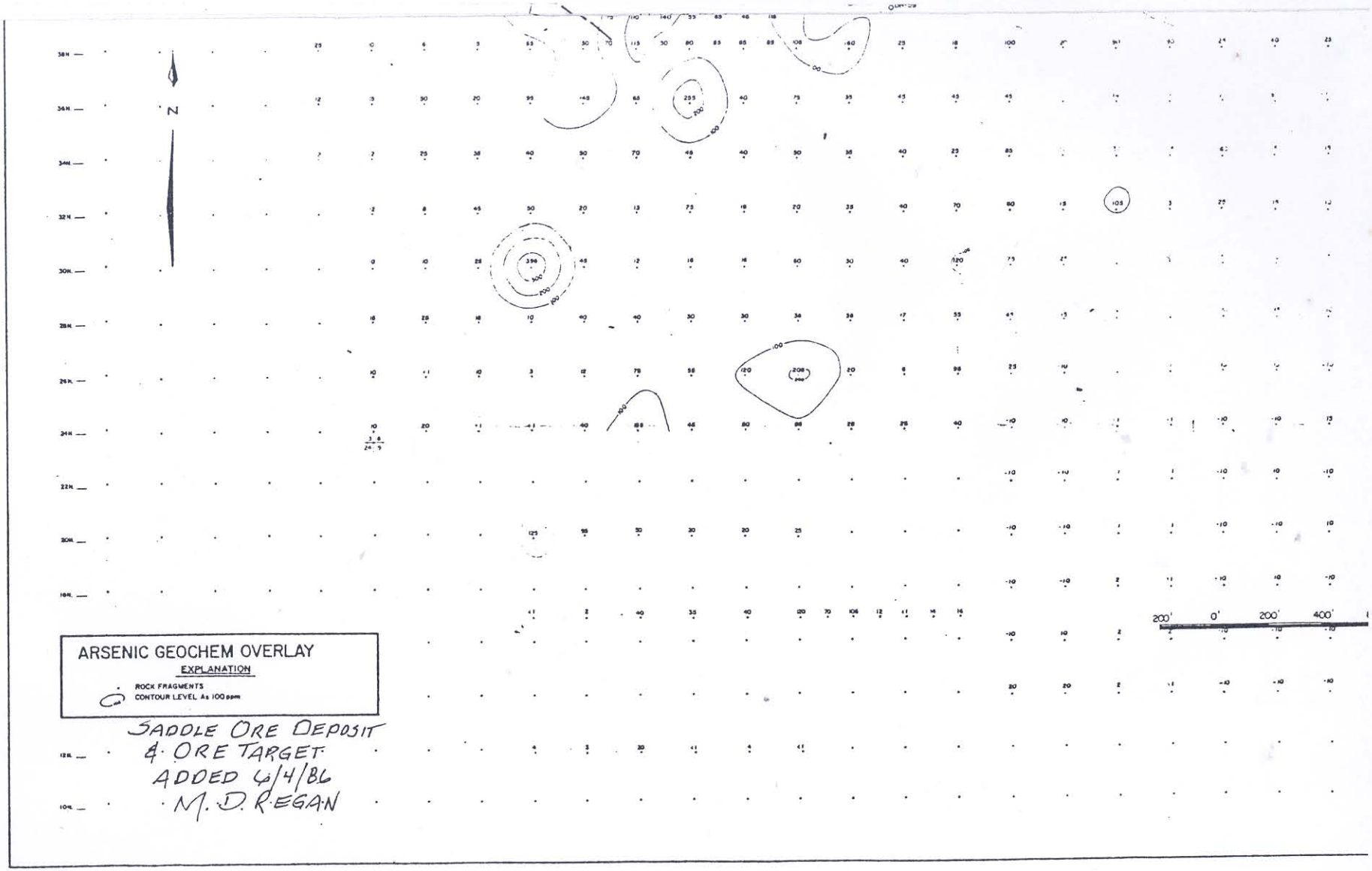
SADDLE Ore deposit
& Ore Target added
6/4/86 M.D. REGAN

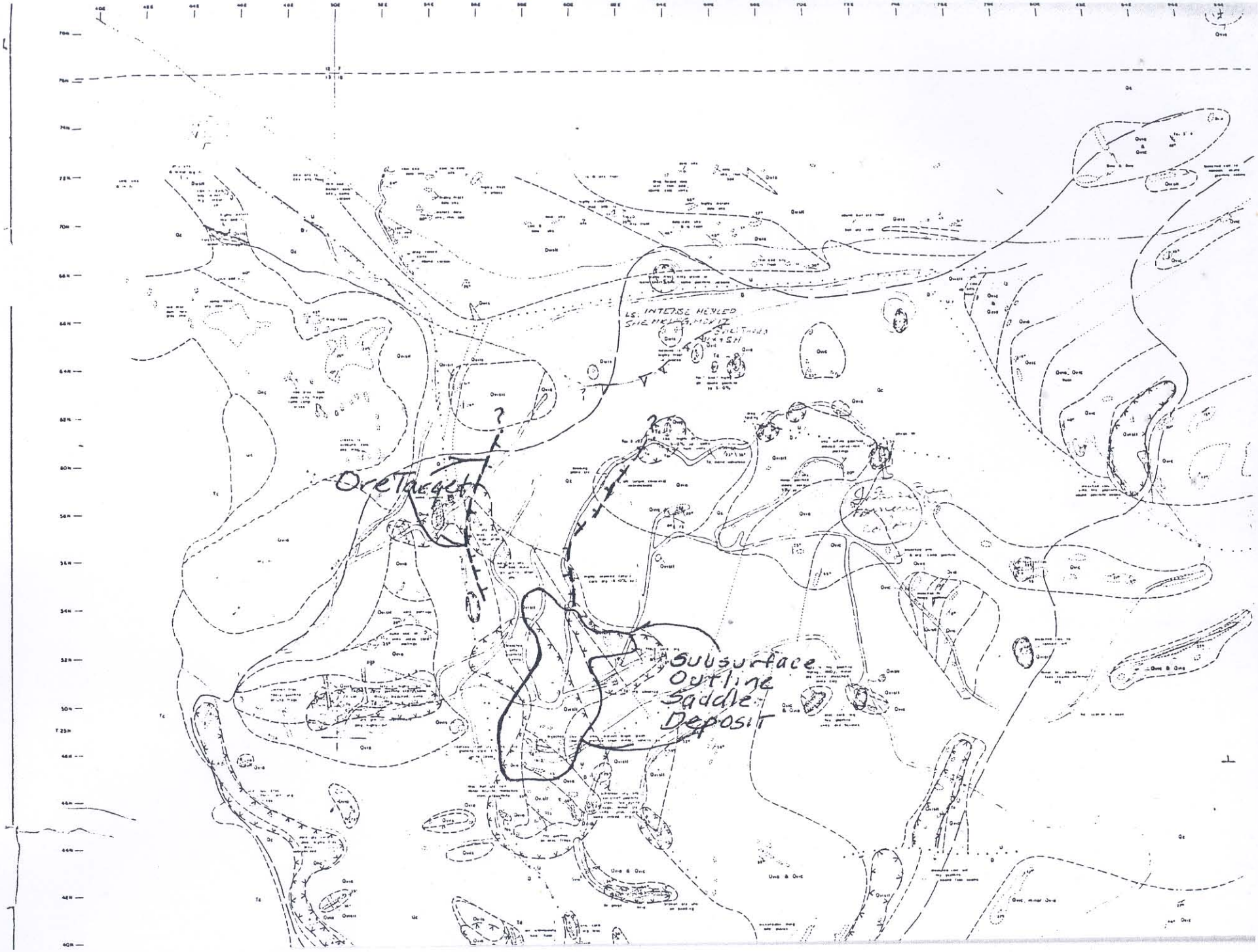

ORE TARGET
SUBSURFACE OUTLINE - SADDLE DEPOSIT

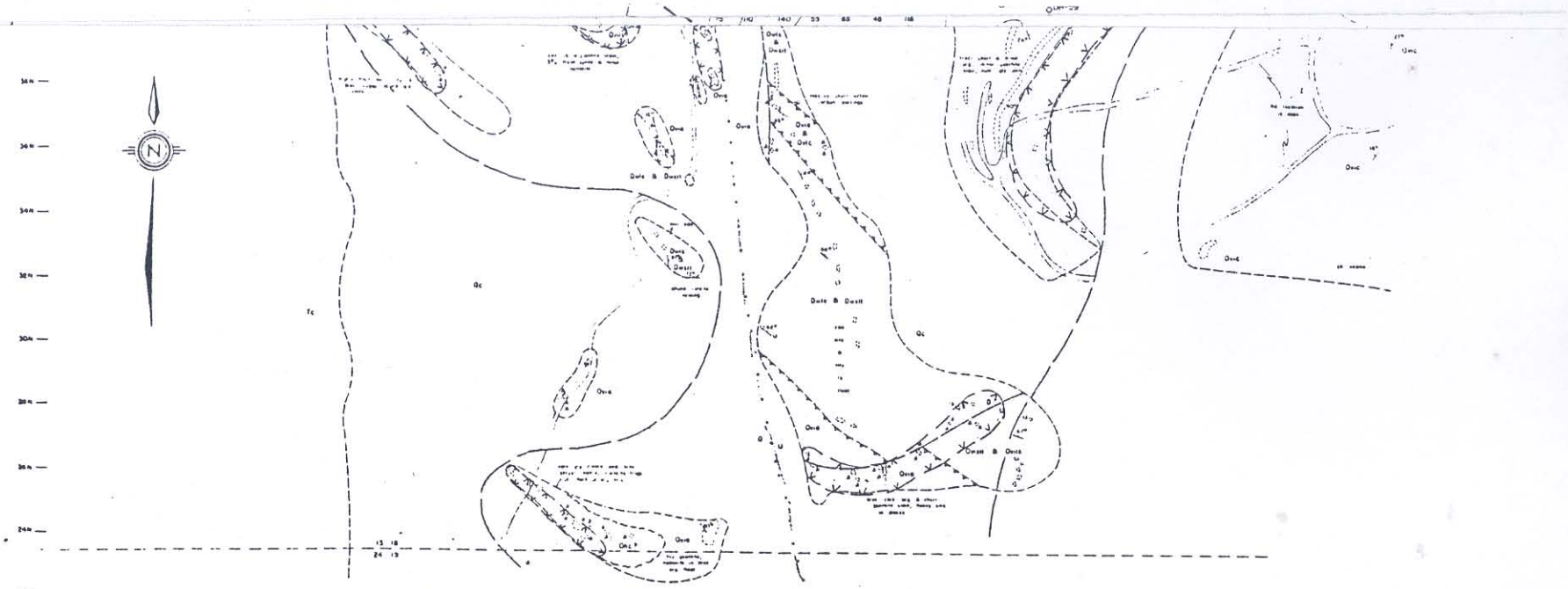


SADDLE Ore Deposit
& Ore TARGET ADDED 6/4/86 M.D. REGAN


ORE TARGET
Subsurface Outline - Saddle Deposit


N
200' 0' 200' 400'
ARSENIC GEOCHEM OVERLAY
EXPLANATION
ROCK FRAGMENTS
CONTOUR LEVEL As 100 ppm
SADDLE ORE DEPOSIT
& ORE TARGET
ADDED 6/4/86
M. D. REGAN


Ore Target
Subsurface
Outline
Saddle
Deposit



ALTERATION

EXPLANATION

- ZONE OF SILICIFICATION
- LIMIT OF GOETHITE AFTER SULFIDES

GEOLOGY

EXPLANATIONS

QUATERNARY

- Qc — COLLUVIAL, ALLUVIAL COVER, THIN

TERTIARY

- Tc — GRAVEL, POORLY SORTED, DOMINANTLY CHERT QUARTZITE
- Tqv — QUARTZ VEINS
- Tq — DIKE, HIGHLY ALTERED, FELSIC TO INTERMEDIATE

EASTERN ASSEMBLEGE

DEVONIAN

- Dw — WENBAN LIMESTONE
- Dwsl — THIN CALCAREOUS TO DOLOMITIC SILTSTONE, CARBONACEOUS
- Dwlg — MEDIUM TO THICK BEDDED LIMESTONE

WESTERN ASSEMBLEGE

ORDOVICIAN

- Onc — HANSEN CREEK FORMATION, DOMINANTLY DOLOMITE SEDIMENTARY BRECCIA, SANDY, SILICEOUS; MINOR LIMESTONE, CONGLOMERATE
- Oyn — YININI FORMATION
  - Oynsl — ARGILLITE (QUARTZITE SILTSTONE)
  - Oynsl — SILTSTONE, CALCAREOUS TO DOLOMITIC, SOME ARG. SILTSTONE
  - Oynls — THIN BEDDED LIMESTONE
  - Oynch — CHERT, THIN TO MEDIUM BEDDED
  - Oynq — QUARTZITE, COARSE GRAINED

- HIGH ANGLE FAULT
- INFERRED HIGH ANGLE FAULT
- THRUST FAULT
- BRECCIA
- CONTACT
- INFERRE
- UNCONFO
- OUTCROP
- THIN SEC
- ROAD

200' 0 200' 400

HOMESTAKE MINING COMPANY

TOIYABE GOLD PROJ

LANDER COUNTY, NEVADA

DATA BY: FH

DRAFTING:

AFE

REVISIONS.

SADDLE ORE DEPOSIT OUTLINE
AND ORE TARGET OUTLINE ADDED
M.D. REGAN 6/4/86