Yes Audited

No Certified

# WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of
Incl. Voucher for ~~12/10/1954~~

Yes Actual Cost

Agreed Unit Costs

Name L & P Mining Company

State Colorado

Commodity Tungsten

Docket No. ~~DMEA-2304~~

Idm-E No. ~~306~~

| OPERATION | AUTHORIZED Units | AUTHORIZED Cost | COMPLETED Units | COMPLETED Cost | NET COST |
|---|---|---|---|---|---|
| Drifting & Crosscutting | ~~100'~~ | ~~2,500.00~~ | ~~40'~~ | ~~1,647.44~~ | 1,923.82 ~~48.10ft~~ |
| Raising | ~~250'~~ | ~~7,500.00~~ | ~~160.7~~ | ~~4,155.98~~ | 30.20 ~~4,853.10~~ |
| Shafts | | | | | |
| Winzes | | | | | |
| Drilling (Specify) | | | | | |
| Surface Excavation | | | | | |
| Underground Excavation | | | | | |
| Roads and Trails | | | | | |
| Operating Equipment Purchased | | ~~1,467.10~~ | | ~~973.50~~ | |
| Surface Rehabilitation & Repairs | | | | | |
| Underground Rehabilitation | | ~~12,309.90~~ | | ~~16,302.53~~ | ~~16,302.53~~ |
| New Building, Improvements, etc. | | ~~1,223.00~~ | | ~~1,223.00~~ | ~~1,223.00~~ |
| Other (Specify) | | | | | |
| Totals | | ~~25,000.00~~ | | ~~24,302.45~~ | ~~24,302.45~~ |

Amendment No.4 increased contract from $18,000.00 to $25,000.00. Underground rehabilitation was away above estimates

Prepared by T.L.C

71626

STATE of NEVADA }
COUNTY of NYE }

I, C.A. LIDDELL, being first duly sworn, depose and say that this map has been correctly drawn to the designated scale from the field notes of a survey made by R.B. Jones, under my supervision in October, 1951; that it truly and correctly shows the position of of the lode claims as staked upon the ground.

C.O. Liddell
Mineral Surveyor for Nevada.

Subscribed and sworn to before me Nov 10, 1951.

Notary Public in and for [illegible] County, Nevada

FIG. 2

PROPERTY OF
IRENE S. SYKES
MINA, NEVADA.

| | | |
|---|---|---|
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN by DOTTED LINES. | |
| OCT 26, 1951 | SCALE 1" = 2000' | MINA, NEVADA |

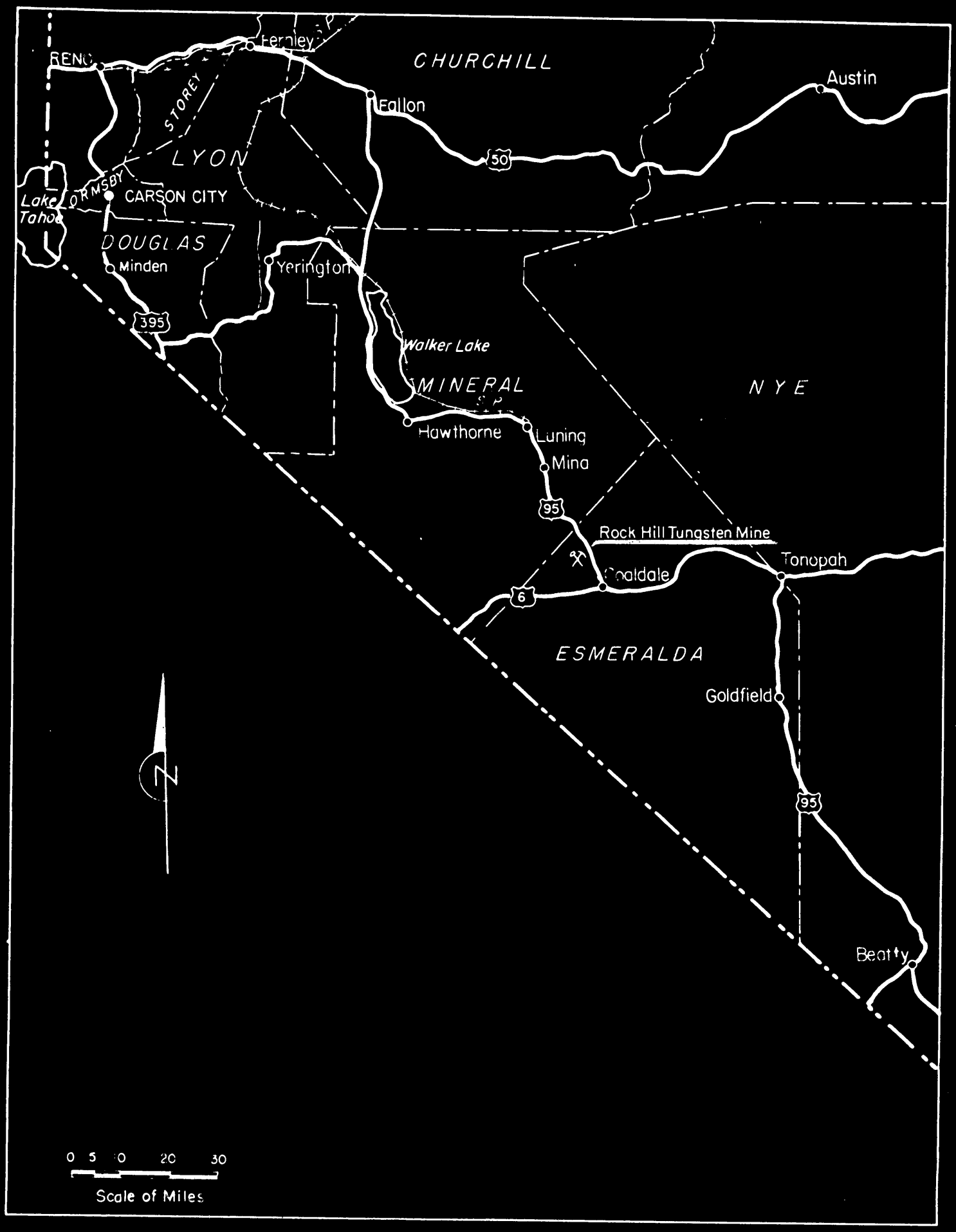



Fig. 1 Location Map

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

# REPORT OF EXAMINATION BY FIELD TEAM
# REGION III

## DMEA-2581, Rock Hill Tungsten Deposits

Esmeralda County, Nev.

APR 16 1952

Russell R. Trengove, Mining Engineer
U. S. Bureau of Mines

Robert G. Reeves, Geologist
U. S. Geological Survey

March 13, 1952

Reviewed by
DMEA OPERATING COMMITTEE
4-18-52
(JHB) (date)

DOCKET DMEA-2381

ROCK HILL TUNGSTEN DEPOSITS
Esmeralda County, Nev.

## SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

An engineer[1] of the Bureau of Mines examined the Rock Hill tungsten deposits while exploration was in progress, in November 1951. At that time it was named Cobalt-Tungsten Associates Mine. It was again examined by Bureau engineers[2] and a geologist[3] of the U. S. Geological Survey in February, 1952.

The purpose of the examination was to determine the probable grade and extent of the scheelite mineralization in considering an application for a Government exploration loan amounting to $40,000 with 75 percent Government participation.

The ensuing report notes the location and physical features, the property and ownership, description of the ore and ore deposits, and the geology.

There has been no production to date.

Areas numbers 1 to 5 (figures 2 and 3) were examined. Areas 1, 2, and 4, where scheelite mineralization in place was exposed, were sampled. Analyses were 0.22% $WO_3$, 0.18% $WO_3$, and less than 0.01% $WO_3$, respectively.

Because no effort has been made to ascertain the grade and extent of the deposit at depth, it is recommended that a loan be granted for a small diamond drill exploration program, not to exceed $10,000. Figure 3 shows location of mineralized areas. Areas 1 and 2 have been

1/ Russell R. Trengove.
2/ Russell R. Trengove and John D. Warne.
3/ Robert G. Reeves.

selected for the drilling program.

## INTRODUCTION

An application for Government loan under Sec. 202 of the Defense Production Act of 1950 was made by Irene Sykes for the General Tungsten Company on December 31, 1951.

A preliminary examination was made in November 1951 by a Bureau engineer. At that time, the property was known as the Cobalt-Tungsten Associates Mine and exploration by bulldozer trenches was in progress. This work was terminated in December 1951.

The property was again examined by engineers of the Bureau of Mines and a geologist of the U. S. Geological Survey in February 1952.

## LOCATION AND PHYSICAL FEATURES

The Rock Hills tungsten deposit (fig. 1) is located in sec. 34, T. 4 N., R. 36 E., M.D.B.&M., north of Columbus Salt Marsh and in the southeast portion of the Candaleria Hills area. The property is situated in an area of moderate relief; elevations range from 4,512 feet in the Columbus Salt Marsh to 5,100 feet on the crest of the ridge. The McCoy tungsten property is situated on the west side of this ridge and the Rock Hills tungsten deposit adjoins the McCoy property and is on the east slope of the ridge. To reach the property, follow U. S. Highway 95 south from Mina, Nev., a distance of 29.6 miles. The property can be seen from the highway at this point. It lies about one mile west of the highway.

Water can be obtained by sinking wells in the Columbus Salt Marsh. There is no transmitted power near the property. The nearest source of

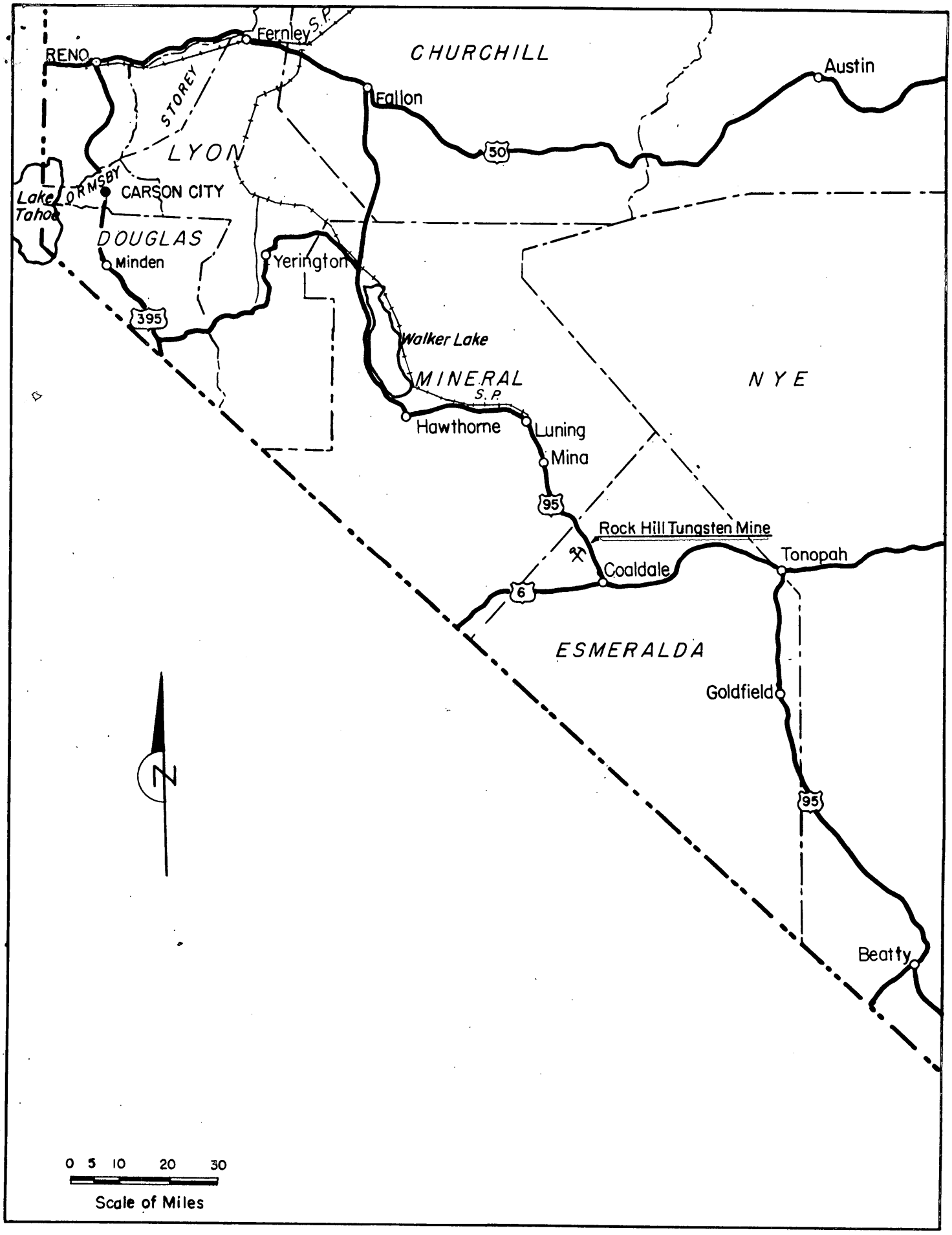
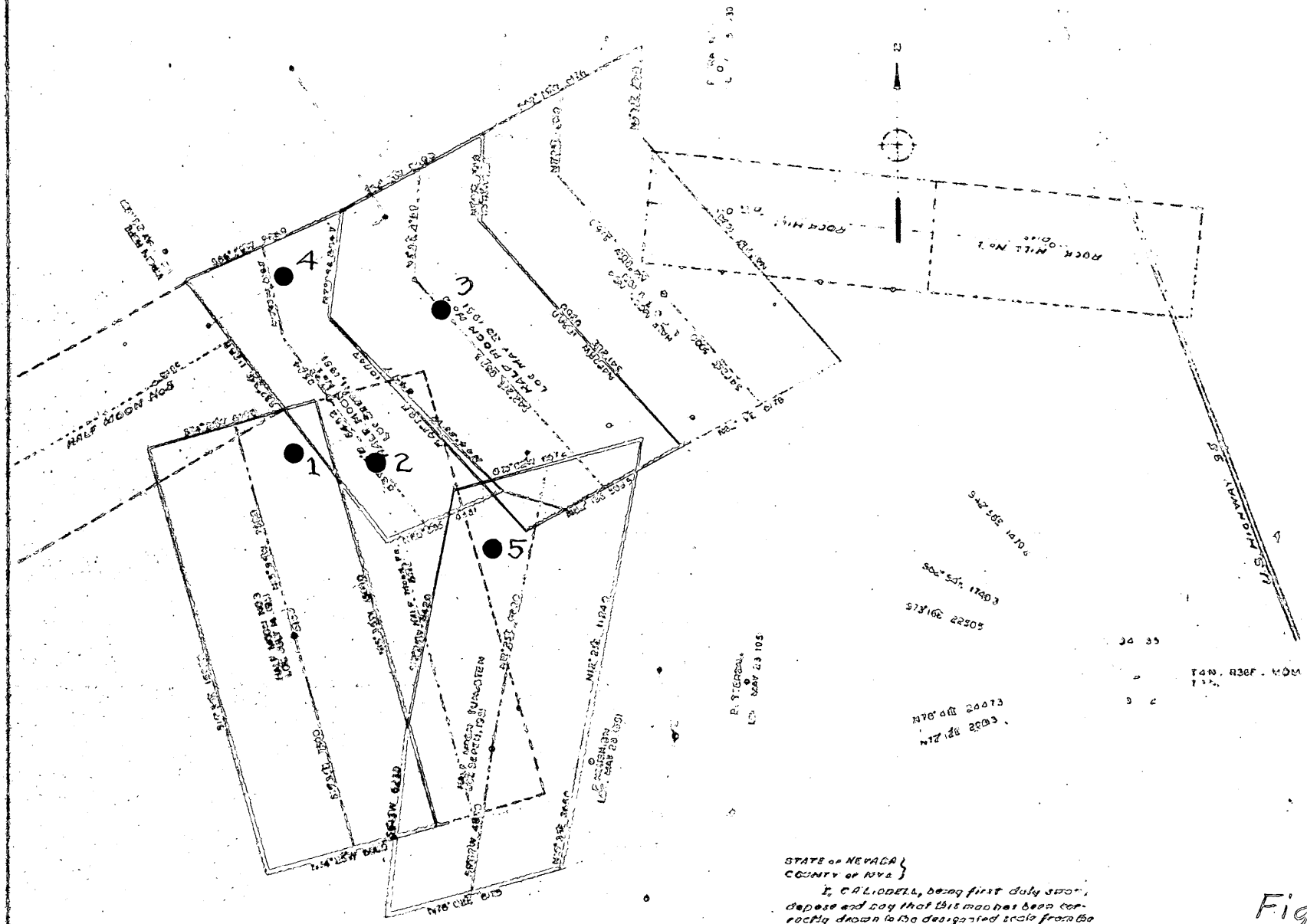



Fig. 1 Location Map




STATE OF NEVADA }
COUNTY OF NYE }

I, C. A. LIDDELL, being first duly sworn, depose and say that this map has been correctly drawn to the designated scale from the field notes of a survey made by R. D. Jones, under my supervision in October, 1951; that it truly and correctly shows the position of all the lode claims as stated upon the ground.

C. A. Liddell
Mineral Surveyor for Nevada.

Subscribed and sworn to before me this [illegible]

Notary Public in and for Nye County, Nevada

Fig. 2

PROPERTY OF
IRENE S. OVECO
NYE COUNTY NEVADA

| | | |
|---|---|---|
| [illegible] | [illegible] | [illegible] |

transmitted power would be at the Sodaville mill, 18 miles distant.

The nearest shipping point is Mina, Nev., which is the terminus of a branch line of the Southern Pacific Railroad.

Mine supplies can be obtained in Reno, Nev., 192 miles distant.

There is very little snowfall in the area, so the mine could be operated the year around. There is no mine timber available on the property or the immediate vicinity.

There are no structures on the property. Equipment owned by the General Tungsten Company consists of one portable power unit for the ultra-violet lamp. Exploration was conducted with rental equipment owned by Mr. Hayden W. Church, 5149 West 18th Place, Los Angeles, Calif.

PROPERTY AND OWNERSHIP

Tungsten was first discovered east of the Rock Hill tungsten claims by a Mr. Woodward, early in 1951. S. A. Peterson discovered tungsten on the Rock Hill area and staked five lode claims during the summer of 1951. Irene Sykes obtained a lease and option on the Peterson group and conducted the exploration under the firm name of Cobalt-Tungsten Associates. She also located the Half Moon Claim No. 4 and the Half Moon Fraction. In December 1951, she purchased the Peterson group of claims; the Half Moon Tungsten and the Half Moon Tungstens No.s 1, 2, and 3 and changed the firm name to the General Tungsten Company.

Irene Sykes, a general partner, in the new company, made the application for Government aid on December 31, 1951.

## GEOLOGY

The rocks of the area are interbedded sandstone, limy slate, and impure limestone and dolomite, which have been locally metamorphosed by an intrusion of granitic rocks. The age of the sedimentary rocks is thought by Ferguson and Muller[4] to be of Ordovician, while the intrusive is believed by them to be Jurassic in age. The sediments are folded, cut by numerous quartz veins, and in many places highly contorted. Davis[5] believes the quartz veins genetically related to the granitic intrusion, and that granite may underlie the sediments at a depth of less than 800 feet. The areal distribution of the rocks, some of the structure of the sediments, and the attitudes of the quartz veins are shown by Davis[6] on a map accompanying his report submitted by the applicants. A copy of this map, prepared by the Bureau of Mines, appears as Figure 3 of this report. As a result of the field examination, it is believed that Davis' report and map give an accurate description of the geology. The cross sections accompanying his report, however, are not considered to be realistic.

## ORE DEPOSITS

Tungsten, mainly as scheelite, but with very minor hubnerite, occurs disseminated in tactite, which is believed to have been formed by the metamorphism of the limy slate horizons of the sedimentary sequence. The many quartz veins contain little or no tungsten, but where they cut favorable beds, the surrounding rock contains some

4/ Ferguson, H. G., and Muller, S. W., Structural Geology of the Hawthorne and Tonopah quadrangles, Nevada: U. S. Geol. Surv. Prof. Paper 216, pp. 45-49, pl. 1, 1949.

5/ Davis, D. L., Report on the Cobalt-Tungsten Associates Mine, Esmeralda Co., Nevada: Unpublished manuscript, 1951, accompanying application.

6/ Idem

scheelite. There are five principal mineralized areas, as shown on the accompanying map (Fig. 3). Of these, only area No. 1 is deemed worthy of further exploration.

In area No. 1, a narrow, north-south trending ore zone has been exposed, near its southern end, by a small cut. The ore zone consists of two parts; an east one 2 feet wide, and a west one 3 feet wide, separated by a barren horse 2½ feet wide. The mineralization appears to have followed bedding, which in this area dips to the east. The ore is enclosed in a hard, dark green tactite. The ore and barren tactite are nearly indistinguishable without the use of ultraviolet light. Lenses of black, dolomitic limestone are found locally in the enclosing rock near the contact with the ore. Neither the length nor the depth of the ore sheet has been delineated by physical exploration. Lamping along the strike of the ore, for well over a hundred feet, discloses considerable mineralized float, as well as a few small mineralized outcrops. Samples cut from the east part of the ore zone assay 0.8[illegible]% $WO_3$, while those from the west assay 0.9[illegible]% $WO_3$.

Area No. 2 comprises a weakly mineralized zone, 300 feet east of Area No. 1. A mineralized zone, 19 feet wide, has been exposed by a bull-dozer cut. The scheelite bearing material is surrounded by barren tactite, from which it is distinguished with difficulty. A sample across the 19 feet assays 0.13% $WO_3$. A sample from a small ore pile, reported by the owner to consist of material hand-sorted under ultraviolet light from the 19-foot mineralized zone, assays 0.51% $WO_3$, showing that this method of concentration may be employed to produce an

acceptable grade of material. A sample of the reject pile assayed 0.02% $WO_3$.

In area No. 3, about 300 feet north of area No. 2, a small amount of scheelite occurs across a width of less than 10 feet. It was not sampled.

In area No. 4, northeast-trending tactite beds dip steeply to the east. Under ultra-violet light, a small amount of scheelite was seen across a width of 20 feet, however, a sample across that width assayed less than 0.01% $WO_3$. One lens, 2 feet wide and less than 10 feet long in the eastern corner of the area, appeared to contain scheelite in substantially larger amounts, and was sampled. The sample across the 2 feet of ore assayed 0.[illegible]% $WO_3$.

Area No. 5 shows minor scheelite distributed over a large area. No ore was found, and the area was not sampled.

DATA REGARDING REQUEST FOR LOAN

Irene Sykes informed the Bureau engineer that she originally had $26,000 from her backers to explore the Black Hills tungsten property. A proposed project on her property has been discussed in great detail with engineers of the Bureau of Mines and she is in favor of a limited diamond drilling program not to exceed $10,000 to explore the downward extension of the outcrops. She has informed the Bureau that she is financially able to pay her 25 percent on a project of this size. At this meeting, she stated that she was not well versed in mining and would employ a mining engineer or a geologist to log the diamond drill cores and oversee the drilling operations. In connection with this

work, the engineer or geologist in charge of the work would make a detailed geological map of mineralized areas on a 50-foot scale.

## GEOLOGIST'S CONCLUSIONS

The occurrence of tungsten minerals is widespread; however, ore has been found in only one place on the property. Very little has been done to explore the one ore occurrence, either to ascertain its length or its downward extension. It is believed that further limited exploration would be advisable on area No. 1 in order to ascertain the downward and lateral extent of the ore. Small surface cuts along the strike of the ore would be very helpful in determining its length and width at other points. Should the surface cuts indicate a lateral continuity of 50 feet or more, thus warranting further exploration, diamond drilling would appear to be the most feasible method of determining the downward extension. Because of the complexity of folding, it is recommended that the location, direction and inclination of the diamond drill holes be deferred until larger scale geologic mapping or further geologic study of the principal mineralized zone is accomplished.

## ENGINEER'S CONCLUSIONS

The property, as a whole, appears to be speculative. However, the structure offers a favorable possibility for making a significant mineral discovery.

Other tungsten deposits were equally discouraging until the outcrops were explored 20 to 30 feet below the surface. They are now producing commercial ore.

Because no effort has been made to ascertain the grade and extent of the Rock Hill tungsten deposit at depth, it is recommended that a loan be granted for a limited diamond drill exploration program, not to exceed $10,000.

## JOINT CONCLUSIONS

It is recommended by the examining engineer and geologist that a limited exploration program be undertaken to ascertain the lateral and downward extensions of the ore body in area No. 1.

The exploration program should consist of surface trenches and diamond drilling. Two or three shallow short trenches, dug by hand, should be sufficient to determine the length of the ore shoot. Diamond drilling in the amount of 1,000 feet should give sufficient information on the depth of the ore body. Coupled with the hand-trenching and diamond drilling should be large-scale geologic mapping of the principal ore zone, accomplished by the engineer or geologist supervising the drilling. The whole program should not exceed $10,000, $7,500 of which is the Government's share, while the applicant furnishes $2,500.

Looking west toward deposit.

Looking west from U.S. Highway 95.
(Note wagon drill on McCoy Tungsten
on skyline at right.)

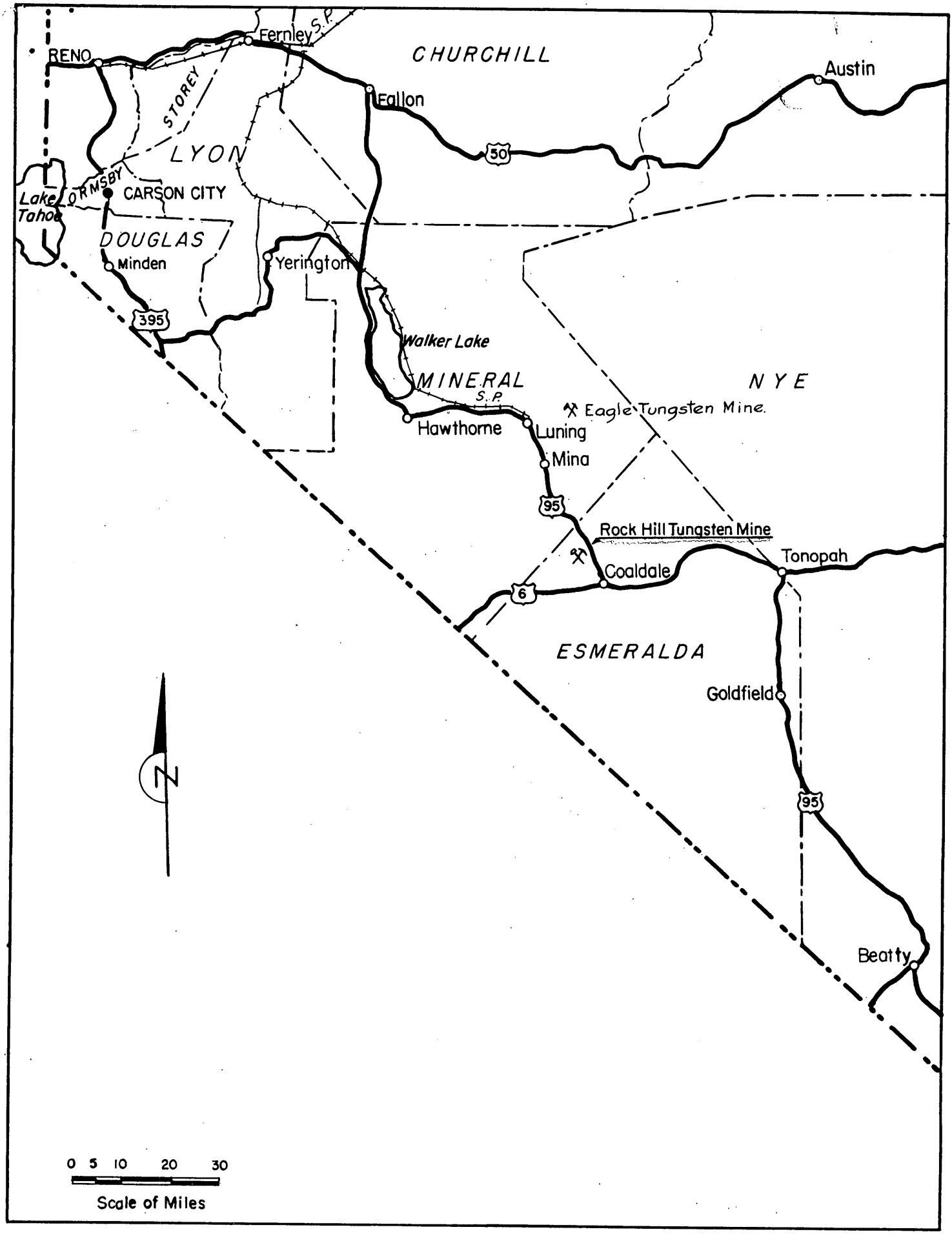
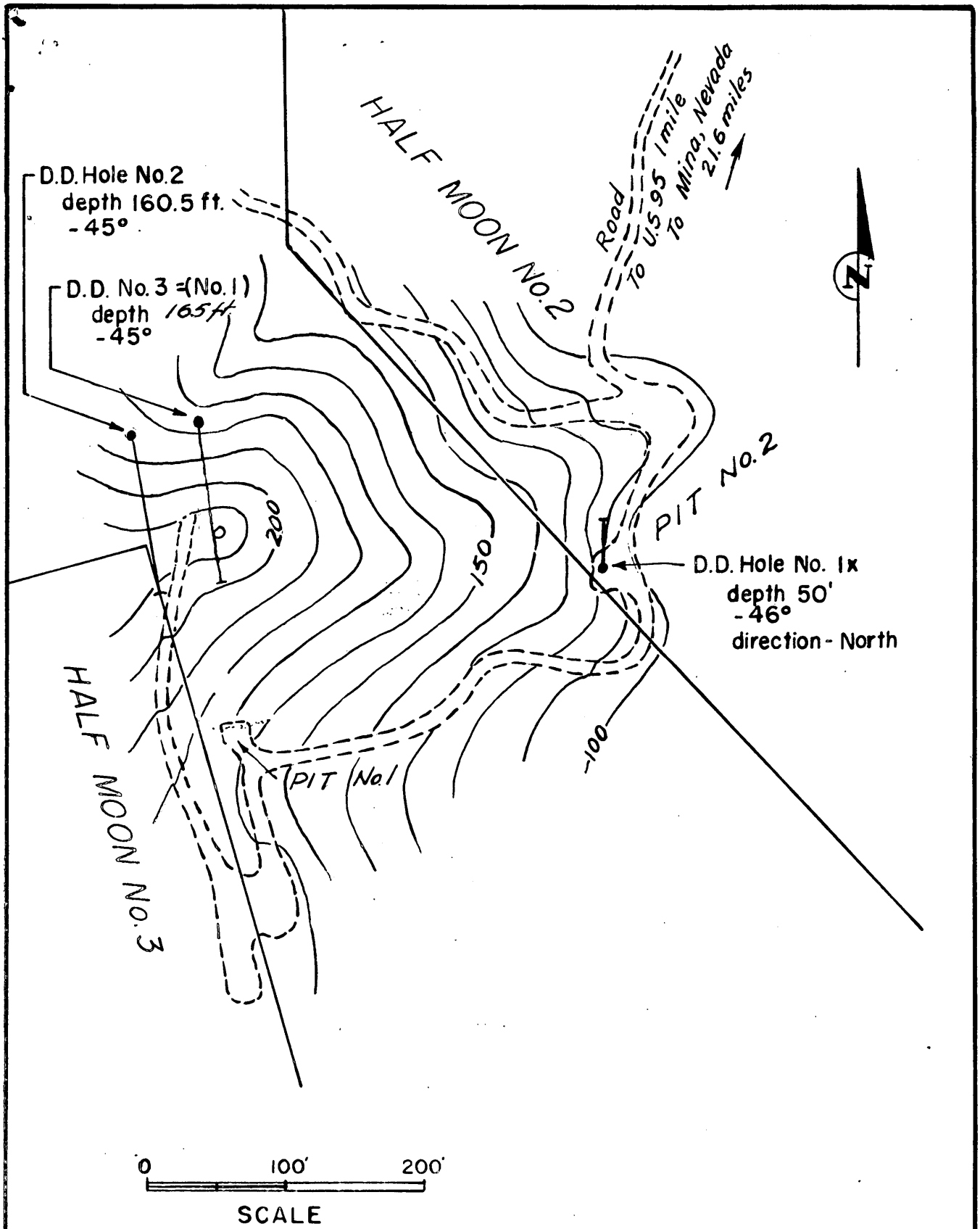



Fig. 1 Location Map




*Topographic Map showing location of Diamond Drill holes.*
*(From maps submitted by Operator)*

IRENE S. SYKES PROPERTY, ESMERALDA COUNTY, NEVADA
DMEA 2381 (tungsten)- Contract Idm-E 366 FIGURE 2

ESTABLISHED 1916

# EISENHAUER LABORATORIES

ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

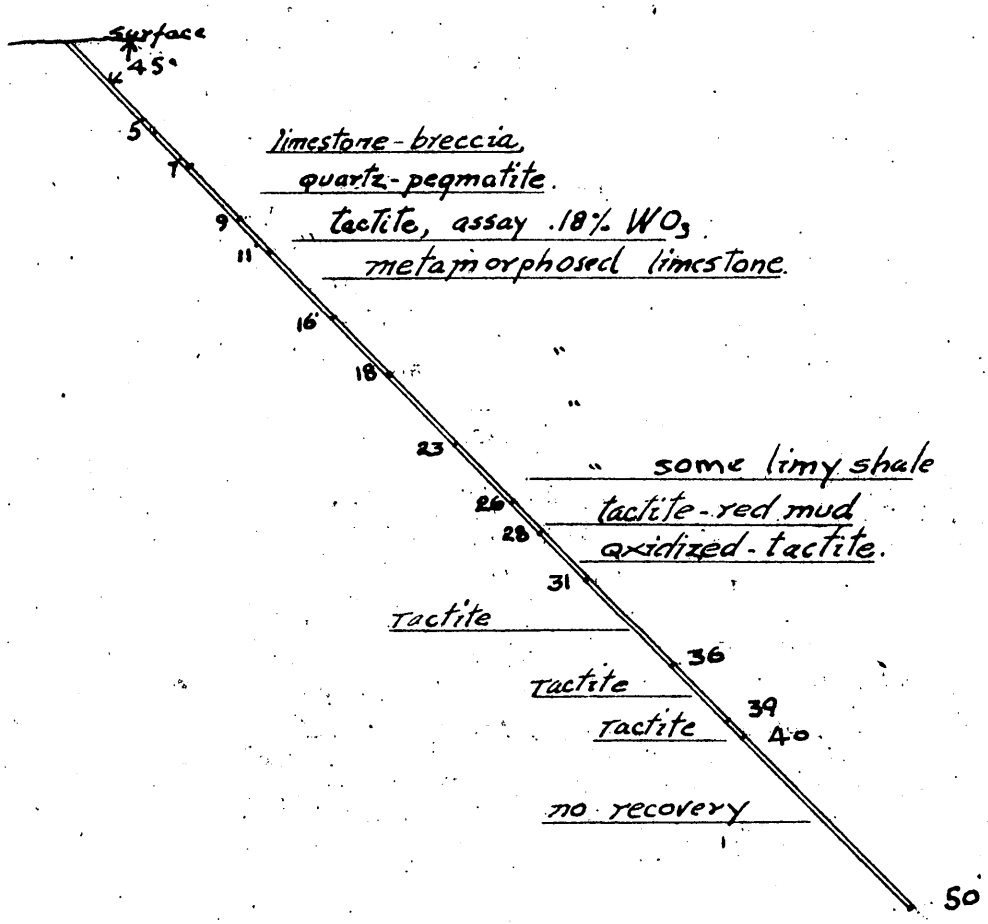
ED. EISENHAUER, JR.
L. C. PENHOEL

PHONE: VANDIKE 9328

FILE NO. 163.

Irene S. Sykes,
IOME. 366.

| LEGEND. | | | |
|---|---|---|---|
| FOOT-AGE | DIAM. CORE | % CORE | $WO_3$ LESS 1% ✓ |
| 5'-7' | 1-1/16" | 75 | ✓ |
| 7'-9' | " | 75 | ✓ |
| 9'-11' | " | 30 | .18 |
| 11'-16' | " | 90 | ✓ |
| 16'-18' | 1-3/16" | 25 | ✓ |
| 18-23' | " | 50 | ✓ |
| 23-26' | " | 85 | ✓ |
| 26'-28' | " | 10 | ✓ |
| 28'-31' | " | 30 | ✓ |
| 31'-36' | " | 50 | ✓ |
| 36-39' | " | 80 | ✓ |
| 39-40' | " | 40 | ✓ |
| 40'-50' | " | — | ✓ |




S. ← | → N.

D. D. HOLE 1-A.

L. C. Penhoel
1/9/53.

ESTABLISHED 1916

# EISENHAUER LABORATORIES

ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

ED. EISENHAUER, JR.
L. C. PENHOEL

PHONE: VANDIKE 9328

FILE NO. 163.

Irene S. Sykes
I. D. M.E. 366.

| LEGEND | | | |
|---|---|---|---|
| FOOT-AGE. | CORE DIAM. | % CORE | DESCRIPTION |
| 1-5 | 1¾" | 75 | SILICIFIED LIMESTON BRECCIA |
| 5-6 | " | 50 | TACTITE - OXIDIZED. |
| 6-7 | " | — | " " |
| 7-11 | " | 60 | METAMORPHOSED SCHIST |
| 11-14 | " | 40 | SILICIFIED LIMESTONE |
| 14-15 | " | 60 | SLATE |
| 15-17 | " | 30 | ALTERED LIMESTONE |
| 17-19 | " | 30 | " " |
| 19-21 | " | 90 | LIME SHALE |
| 21-26 | 1⅛" | 5 | OXIDIZED LIME SHALE |
| 26-28 | " | 50 | SILICEOUS " |
| 28-30 | " | 25 | SLATE |
| 30-31 | " | 40 | " " |
| 31-35 | " | 5 | " QUARTZ STRINGERS |
| 35-36 | " | 50 | SLATE |
| 36-38 | " | 45 | " |
| 38-40 | " | 45 | " |
| 40-44 | " | — | |
| 44-49 | " | 5 | SLATE |
| 49-55 | " | — | |
| 55-61 | " | 30 | SLATE |

| LEGEND | | | |
|---|---|---|---|
| FOOT-AGE | CORE DIAM. | % CORE | DESCRIPTION |
| 61-66 | 1⅛" | 10 | SLATE |
| 66-71 | " | 25 | " |
| 71-76 | " | 15 | " |
| 76-83 | " | 4 | " |
| 83-90 | " | 4 | " |
| 90-97 | " | 4 | " |
| 97-103 | " | 10 | LIME SCHIST |
| 103-108 | " | 5 | " " |
| 108-128 | " | — | |
| 128-132 | " | 10 | SLATE |
| 132-140 | " | 10 | " QUARTZ SEAM |
| 140-155 | " | 10 | " ALTERED LIMESTONE |
| 155-160 | " | 10 | " " " |
| | | | NO $WO_3$ PLUS .1% TO 160'. |
| | | | SLUDGE 142-147 REACTED |
| | | | FOR LIMESTONE AND PAN- |
| | | | NED CONSIDERABLE IRON |
| | | | PYRITE. |
| | | | SLUDGE, -160, SAME AS |
| | | | ABOVE. |
| | | | |

D.D. HOLE 2.

DIP 45°, BEARING S10°E, DEPTH 160'.

L. C. Penhoel
1/9/53.

ESTABLISHED 1916

# EISENHAUER LABORATORIES

ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

ED. EISENHAUER, JR.
L. C. PENHOEL

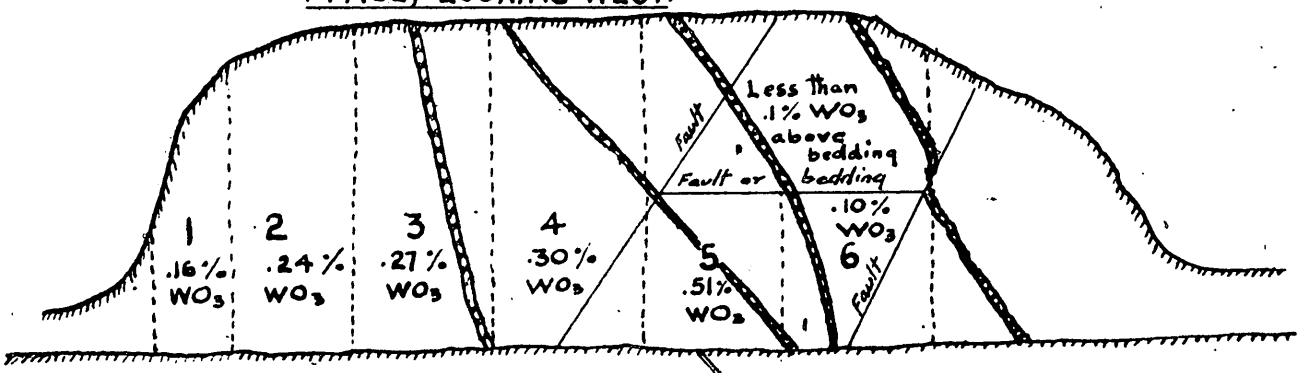
PHONE: VANDIKE 9328

FILE NO. 163.

Irene S. Sykes.
I.D.M.E. 366.

## Assay Map - Cut No. 2.

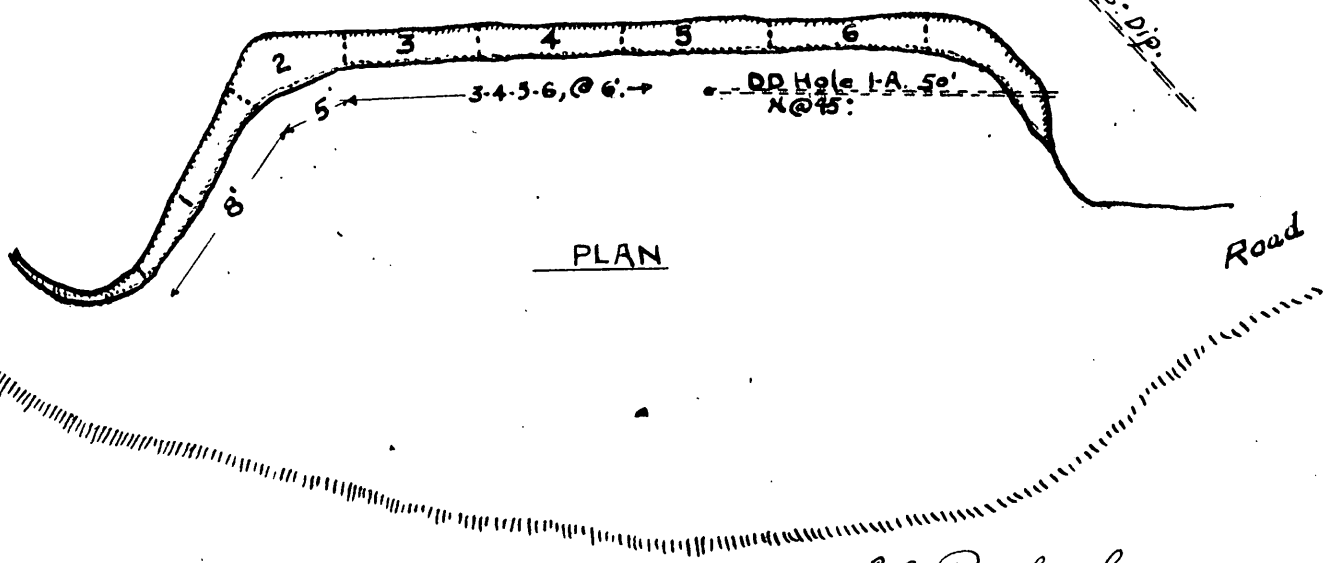
FACE, LOOKING WEST.




Sample #1.- ht. 8' - W 8', soft weathered Lms.
2- " 8' - " 5', gray Lms - tactite.
3- " 8' " 6', " " "
4- " 7' " 6', iron stained weathered tactite - high grade seam at bottom.
5- " 5' " 6' tactite.
6- " 5' " 6' limy slate, some tactite.
Quartz-pegmatite veins.

2' tactite, assay .18% $WO_3$

DD Hole 1A 50' Bearing N@45° Dip.




PLAN

L. C. Penhoel
1/9/53

ESTABLISHED 1916

EISENHAUER LABORATORIES
ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

ED. EISENHAUER, JR.
L. C. PENHOEL

PHONE: VANDIKE 9328

January 9, 1953.

FILE NO.163.

Irene S. Sykes,
1239 South Beverly Glen Blvd.,
Los Angeles 24, California.

Account; Rock Hill Tungsten Property,
Esmeralda County, Nevada.

Progress Report, IDWE 366.
November-December 1952 and January 1953.

Foreword;

The field work as owner's engineer in the IDWE 366 diamond drill program, started on December 3,1952 at which time hole 1-A was completed and drilling hole 2 was in progress.

On December 5, Mr. C.A.Liddell, the retiring owner's engineer, was confered with at the property.

Mr. Liddell turned over maps and verbally reviewed information obtained by engineers of the Bureau of Mines and himself upon which the drilling program to drill 6 holes, with a total footage of 1000 feet, was recommended.

With the exception of hole 1-A, the holes are plotted as shown on Plate NO.1 of Mr. Liddell's survey,print of which is attached.

All of the holes with the exception of hole 1-A, are of the nature of crosscuts to intersect the downward projection of possible ore.

On December 4 surface areas were gone over, both during the day and after dark with a violet-ray lamp.

On December 5, samples were taken from areas where work had been done and exposures indicated that ore might be developed. Six of these samples were taken from Cut NO.2 and one from Cut NO.1.

Due to stormy weather the work was done under difficulty and on the afternoon of December 5, weather conditions became so bad that it was decided to return to Los Angeles with the core of the first 35 feet from hole 2, arrange for core and sludge boxes and return prepared to take up residence and record the work and results of drilling.

On December 9, before arrangements were completed to return to the property, the contractor reported that in hole 3 it was impossible to obtain a satisfactory core or sludge sample.

ESTABLISHED 1916

# EISENHAUER LABORATORIES

ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

ED. EISENHAUER, JR.
L. C. PENHOEL

PHONE: VANDIKE 9328

January 9, 1957.

FILE NO.163.

Under the conditions that one or more of the remaining holes would probably be in shattered ground and with a difference of opinion, that ~~that~~ the results from the drilling, even if completed, would justify the expenditure, it was recommended that Mr. Johnson of the Reno office be notified. The result was that Mr. Sheean was sent to the property and he agreed, that every thing considered, the contractor should be excused for noncompliance for reasons beyond his controland the contractor waiving any claim except for the completed footage drilled, moved his rig off the property on Dec. 15.

Core and sludge samples and the driller's log of hole 3, are being sent direct to the Reno office.

Summary;

The immediate area within which the drill holes have been located is principally made up of metamorphosed limestone with much folding and some faulting.

Local areas show brecciated white lime in dense blue silicified limestone. In shattered areas impure limestones weather to dust. Other areas have been altered to tactite.

Scheelite at times occurs in the quartz-pegmatite veins and in the hard siliceous blue limestone adjacent to the walls of the quartz veins for one or more feet. The more prominent occurrence of scheelite is in the tactite rock

The quartz veins are numerous, often only a few feet apart. Their general strike is east and west with dips at high angles to the north. Widths, where viewed, are rarely more than 8 to 12 inches wide. They represent the more fluid constituent of pegmatite dikes and probably were the channels from the granite for the scheelite mineral solutions.

From evidence shown by rock in the dump from the "old shaft", reported to be 300 feet deep, there is a bed of micaceous schist, of unknown thickness, between the granite and the limestone.

This schist shows little or no scheelite and it is probable that there was no deposition of scheelite until the solutions reached and passed into the limestones.

It is probable that more important concentrations of scheelite exist closer to the contact of the limestone and schist or if the schist is absent, closer to the contact with the granite. That is; more scheelite, all other favorable conditions being equal, would be depositid from the mineral

ESTABLISHED 1916

# EISENHAUER LABORATORIES

ENGINEERING DIVISION
316 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

ED. EISENHAUER, JR.
L. C. PENHOEL

PHONE: VANDIKE 9328

January 9, 1958.

FILE NO.163.

bearing quartz-pegmatite channels close to the contact than at distances until until finally the solutions are barren of mineral.

Recommendations;

It is recommended that exposure of scheelite in present trenches or pits be studied and with additional trenching, if deemed necessary, select a place that would warrant a limited amount of prospecting in the nature of test pits or shaft work on the ore.

With compressor and tools on the property the funds left from the uncompleted diamond drill program could be used to advantage to conclude if more extensive exploration work was justified.

Attached to this report are the following papers;

(1) C.A.Liddell survey with DD holes NO's 1-2-3-4-5 and 6 plotted;with the approximate location of hole 1-A plotted later.

(2) Diagramitic log of hole 1A and hole 2.

(3) Sketch, Assay Map showing location and description with $WO_3$ content of samples taken December 5, 1957.

Respectfully submitted,

L. C. Penhoel

L.C.Penhoel

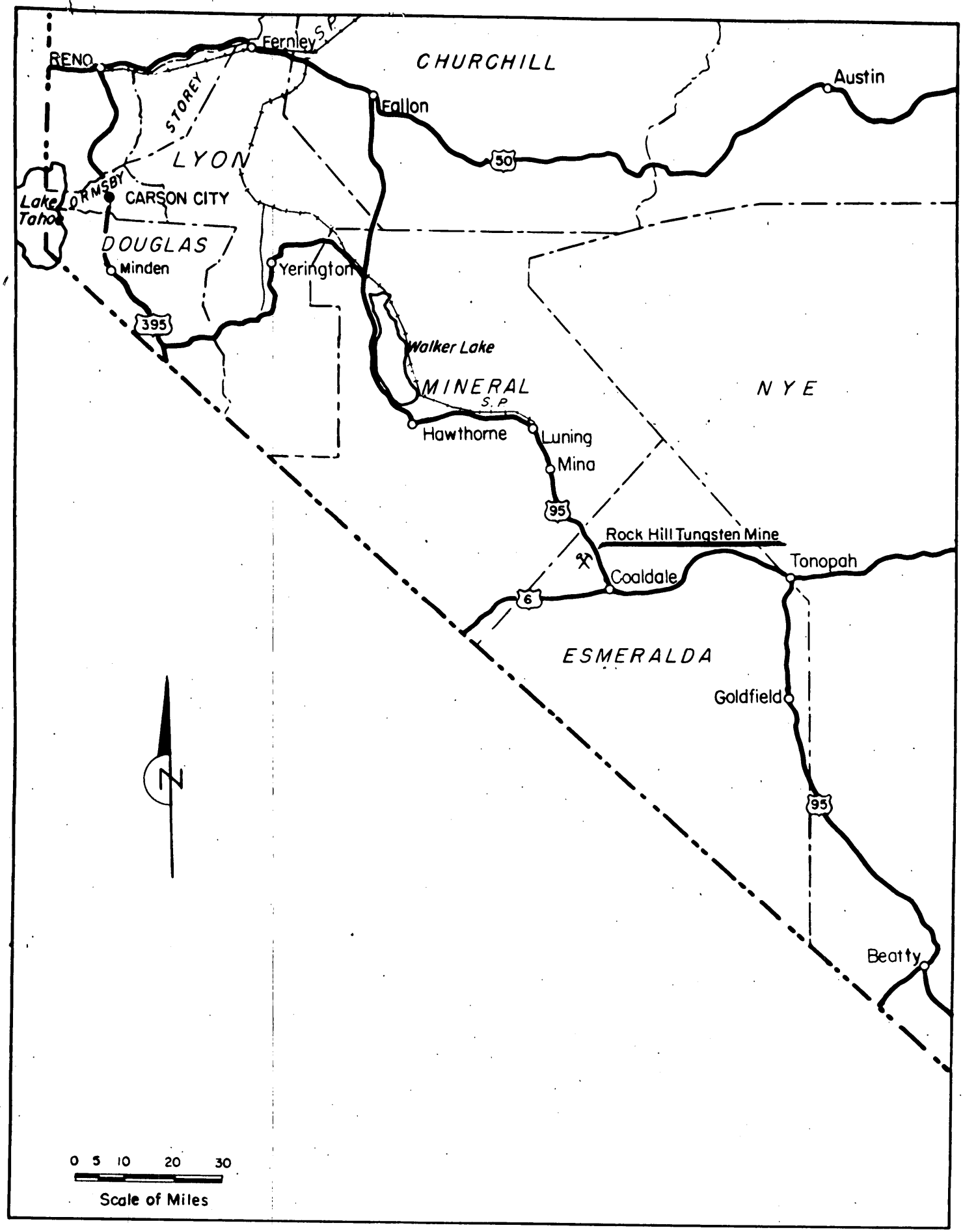



Fig. 1 Location Map

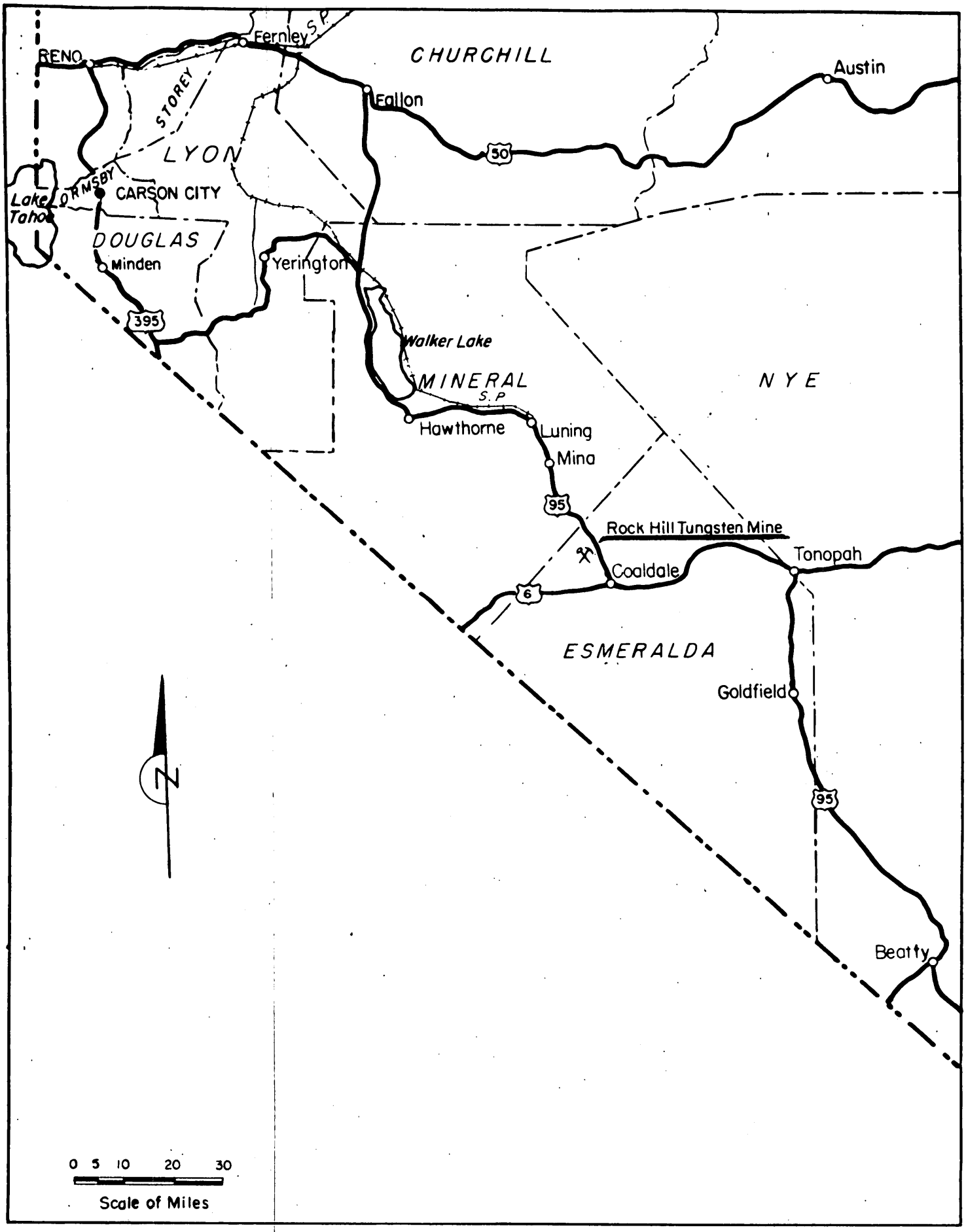
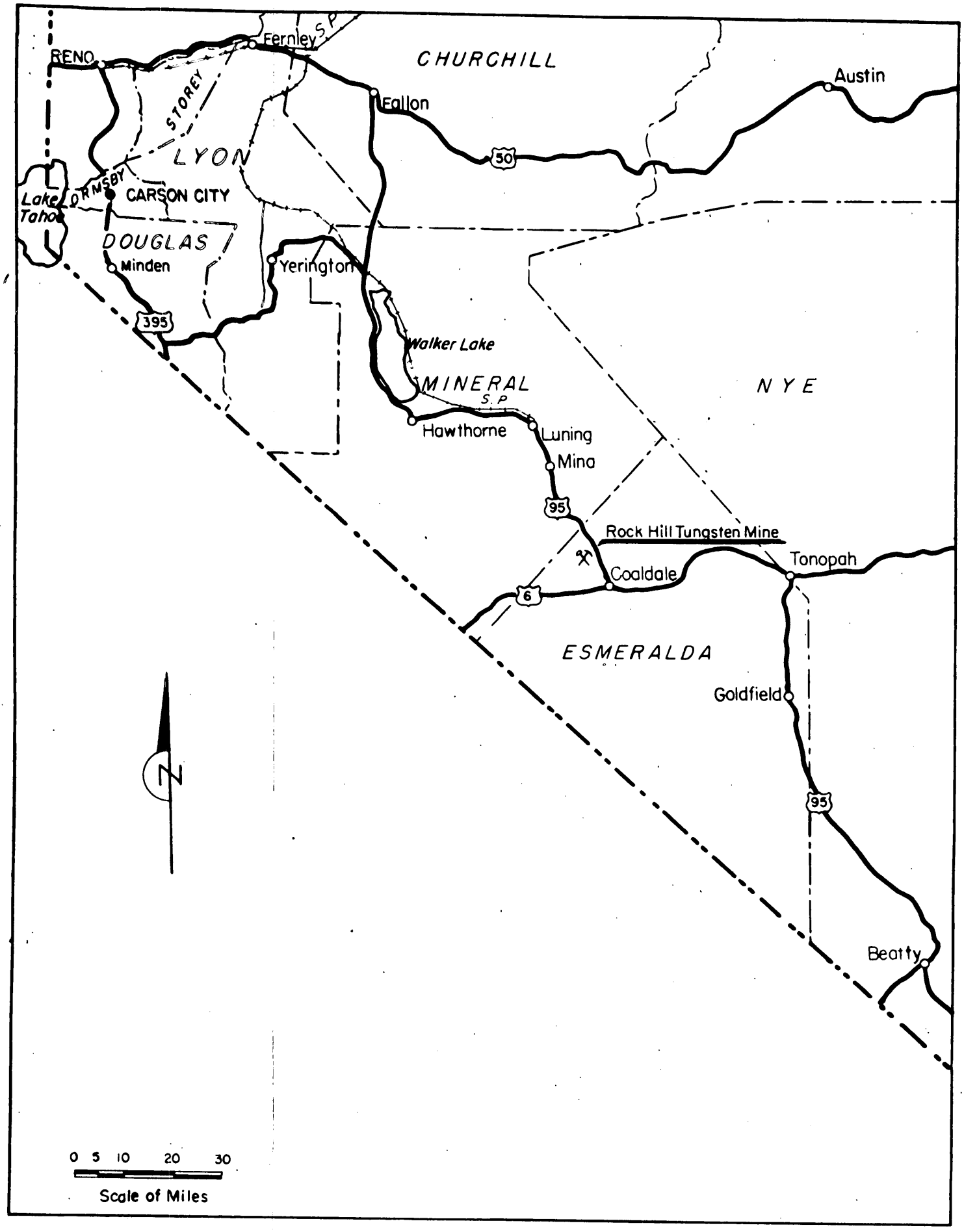



Fig. 1 Location Map

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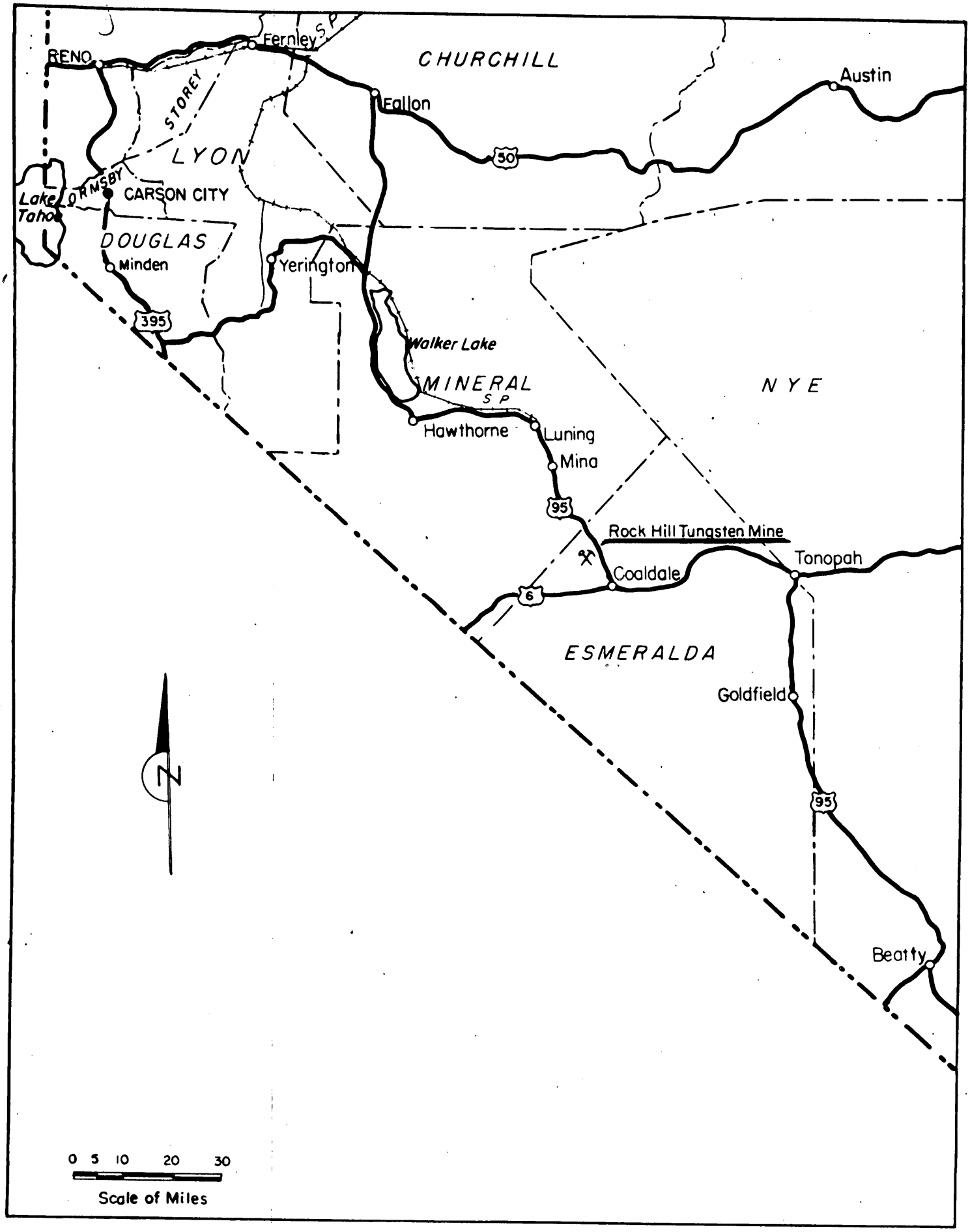



Fig. 1 Location Map

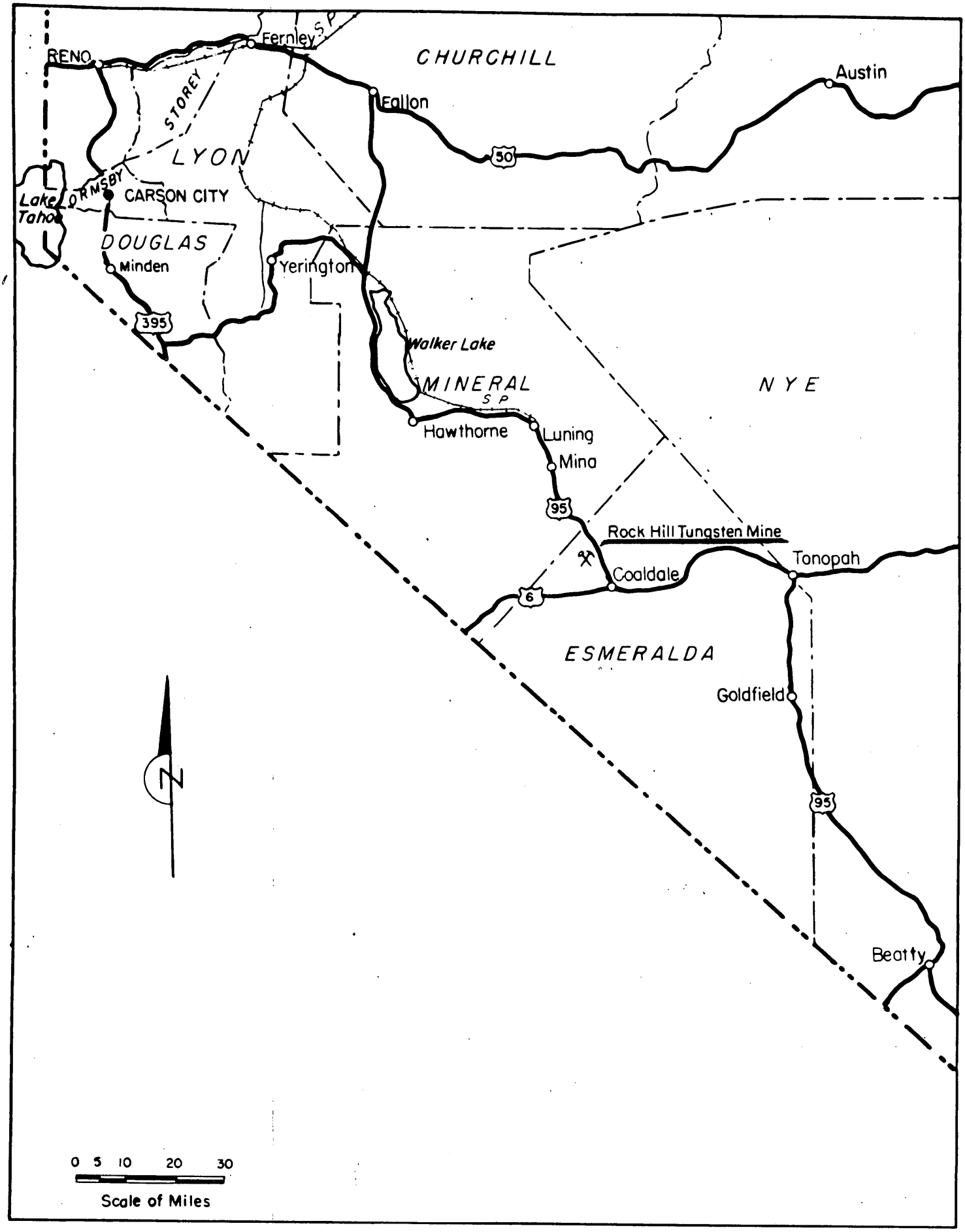
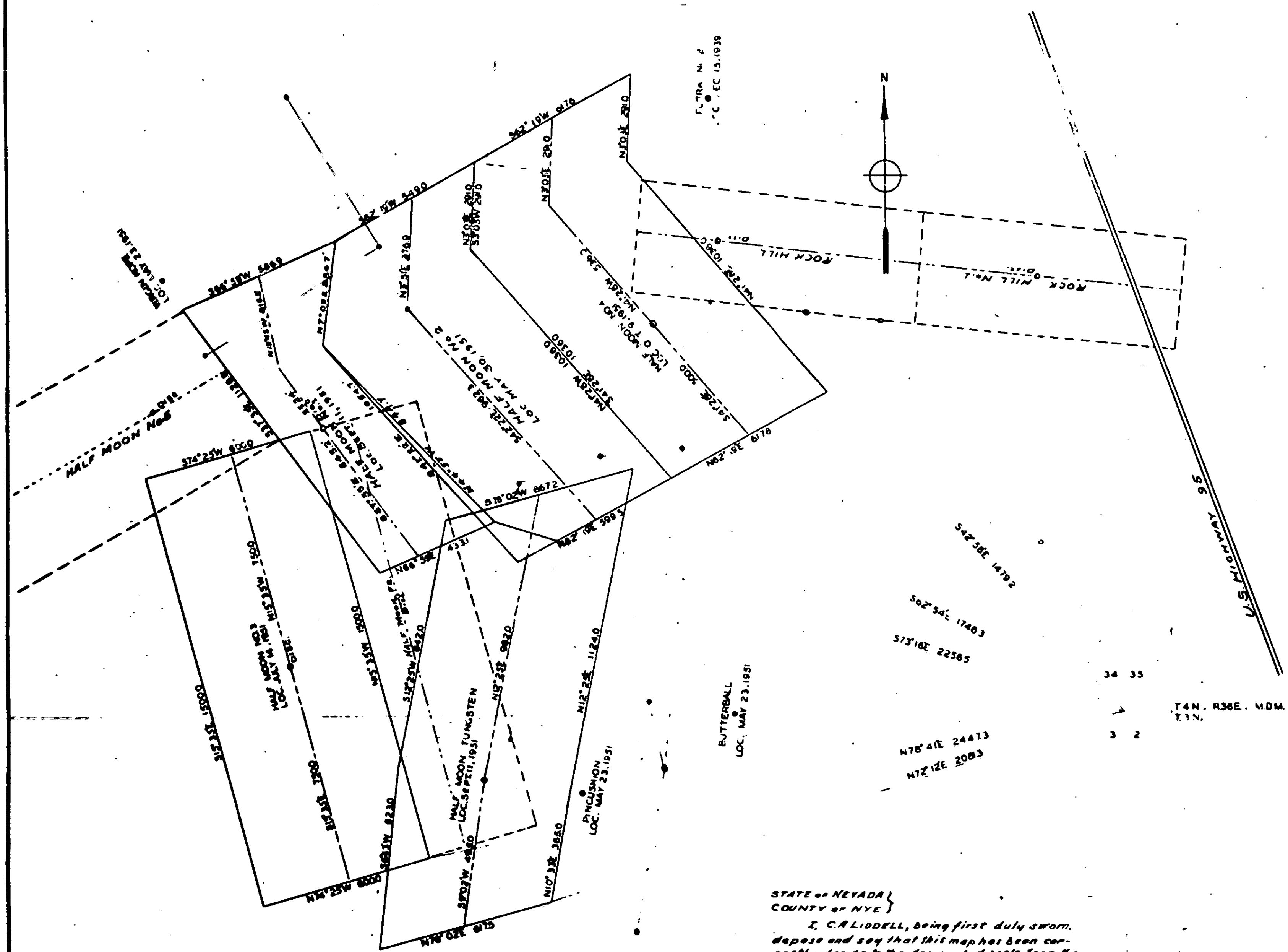



Fig. 1 Location Map




STATE OF NEVADA }
COUNTY OF NYE }

I, C.A. LIDDELL, being first duly sworn, depose and say that this map has been correctly drawn to the designated scale from the field notes of a survey made by R.B. Jones, under my supervision in October, 1951; that it truly and correctly shows the position of the lode claims as staked upon the ground.

C.A. Liddell
Mineral Surveyor for Nevada

Subscribed and sworn to before me Nov. 10, 1951.

Notary Public in and for Mineral County, Nevada

FIG. 2

| PROPERTY OF IRENE & SYKES, MINA, NEVADA. | | |
|---|---|---|
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN by DOTTED LINES. | |
| OCT. 26, 1951 | SCALE 1"=200' | MINA, NEVADA |

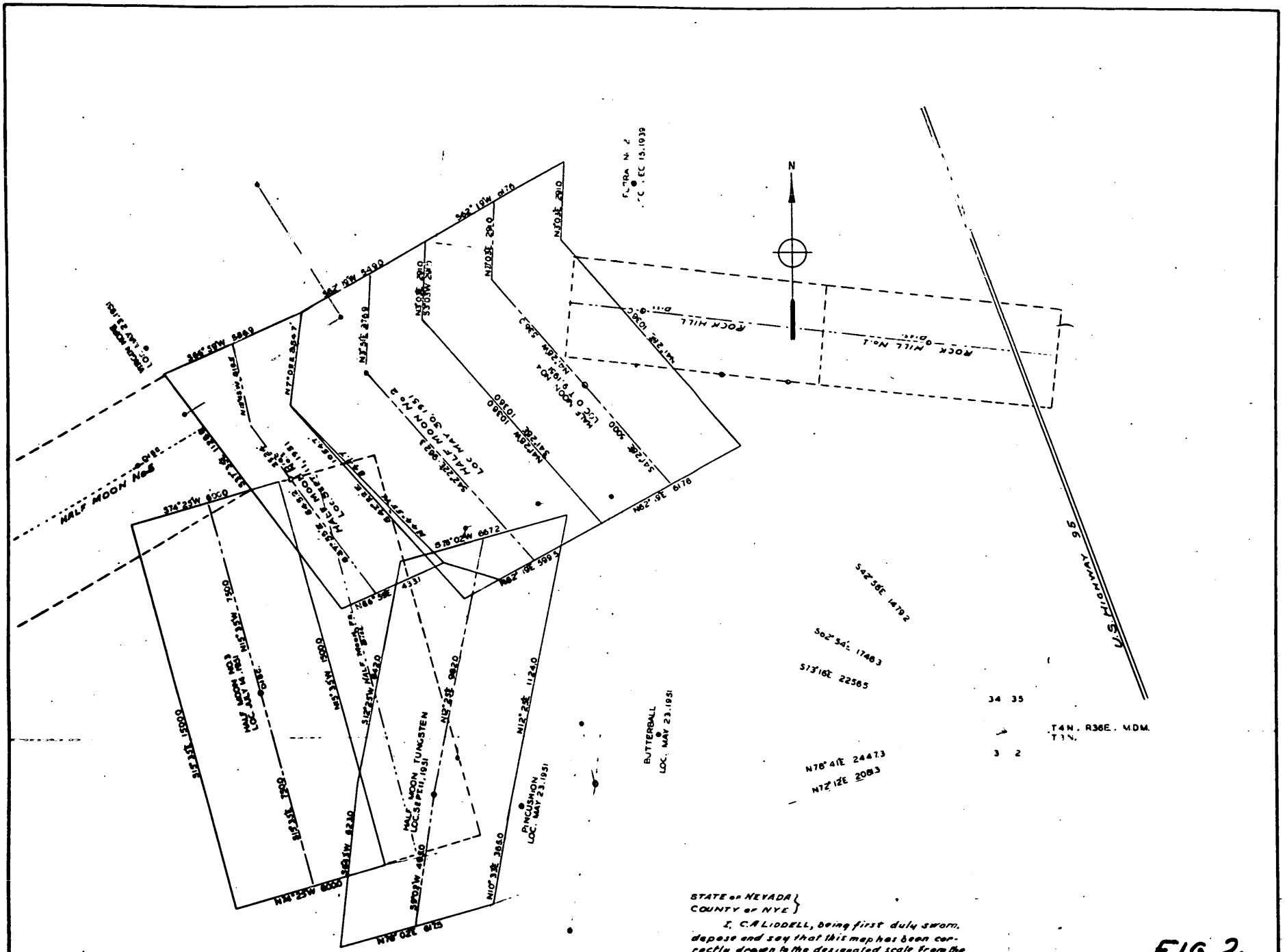



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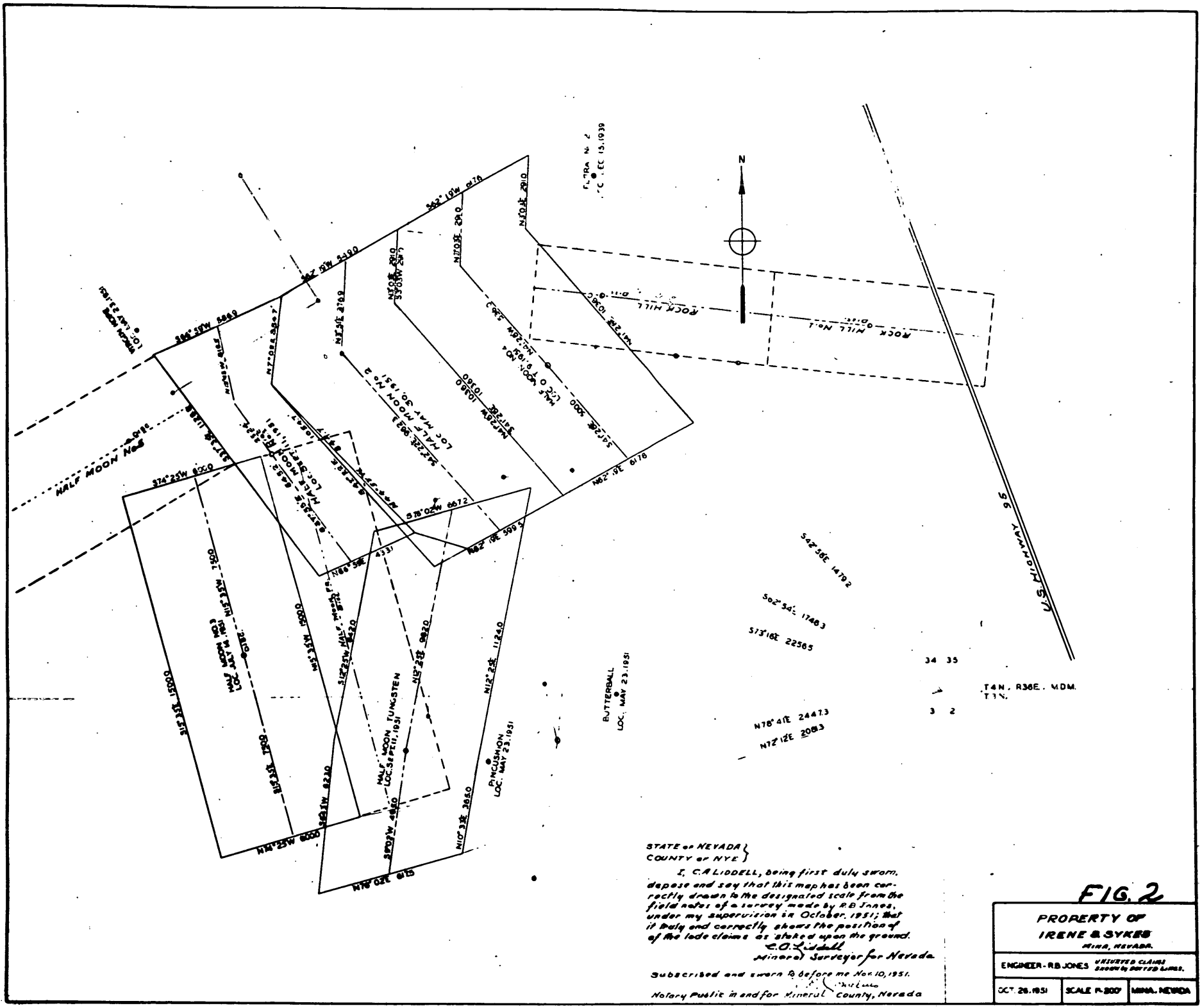
FIG. 2

| PROPERTY OF IRENE & SYKES MINA, NEVADA. | | |
|---|---|---|
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN BY DOTTED LINES. | |
| OCT. 28, 1951 | SCALE 1" = 200' | MINA, NEVADA |

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C.A. Liddell
Mineral Surveyor for Nevada.

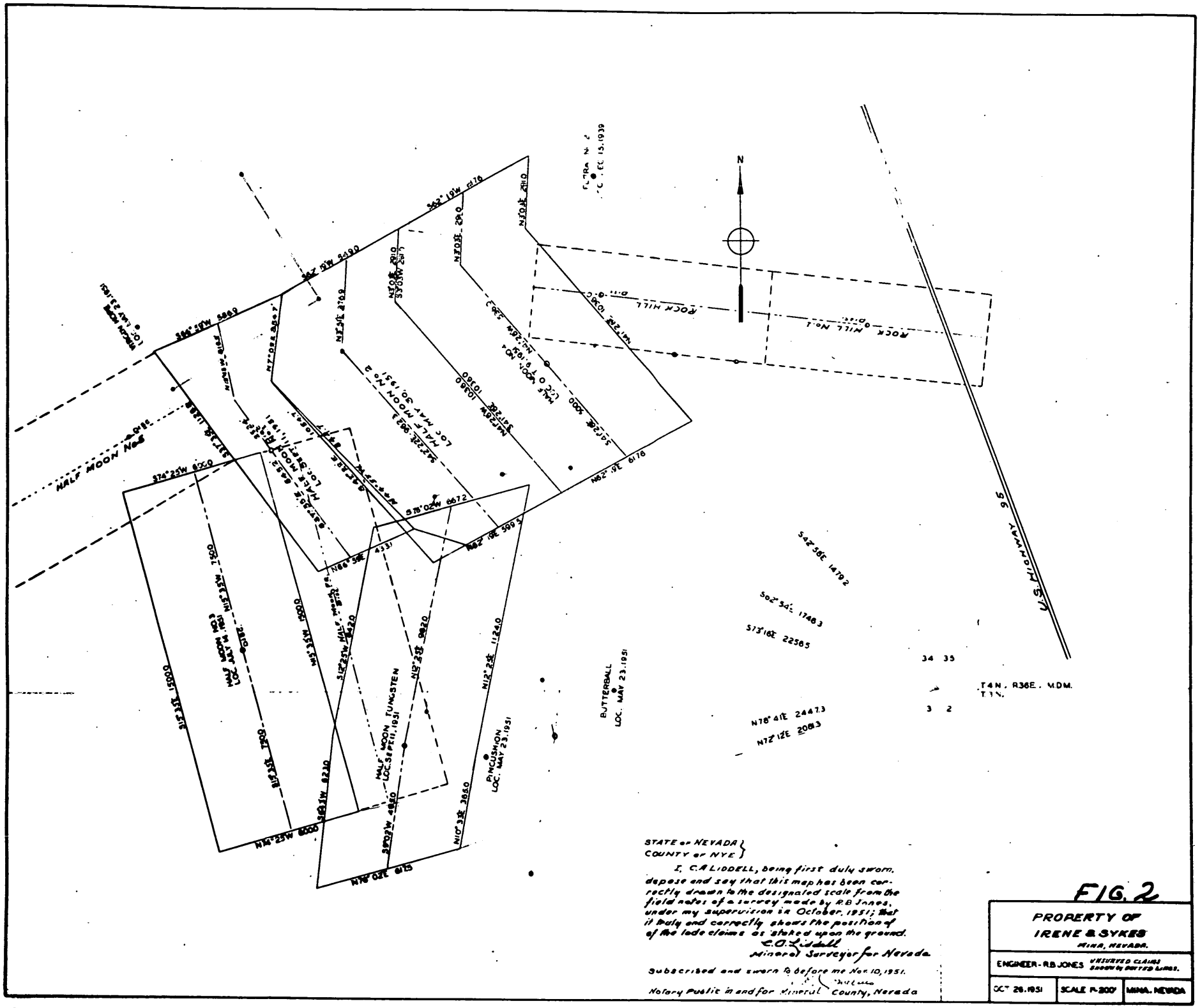
Subscribed and sworn to before me Nov. 10, 1951.

Notary Public in and for Mineral County, Nevada

FIG. 2

PROPERTY OF
IRENE & SYKES
MINA, NEVADA.

| | | |
|---|---|---|
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN BY DOTTED LINES. | |
| OCT. 26, 1951 | SCALE 1" = 200' | MINA, NEVADA |

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COUNTY OF NYE }

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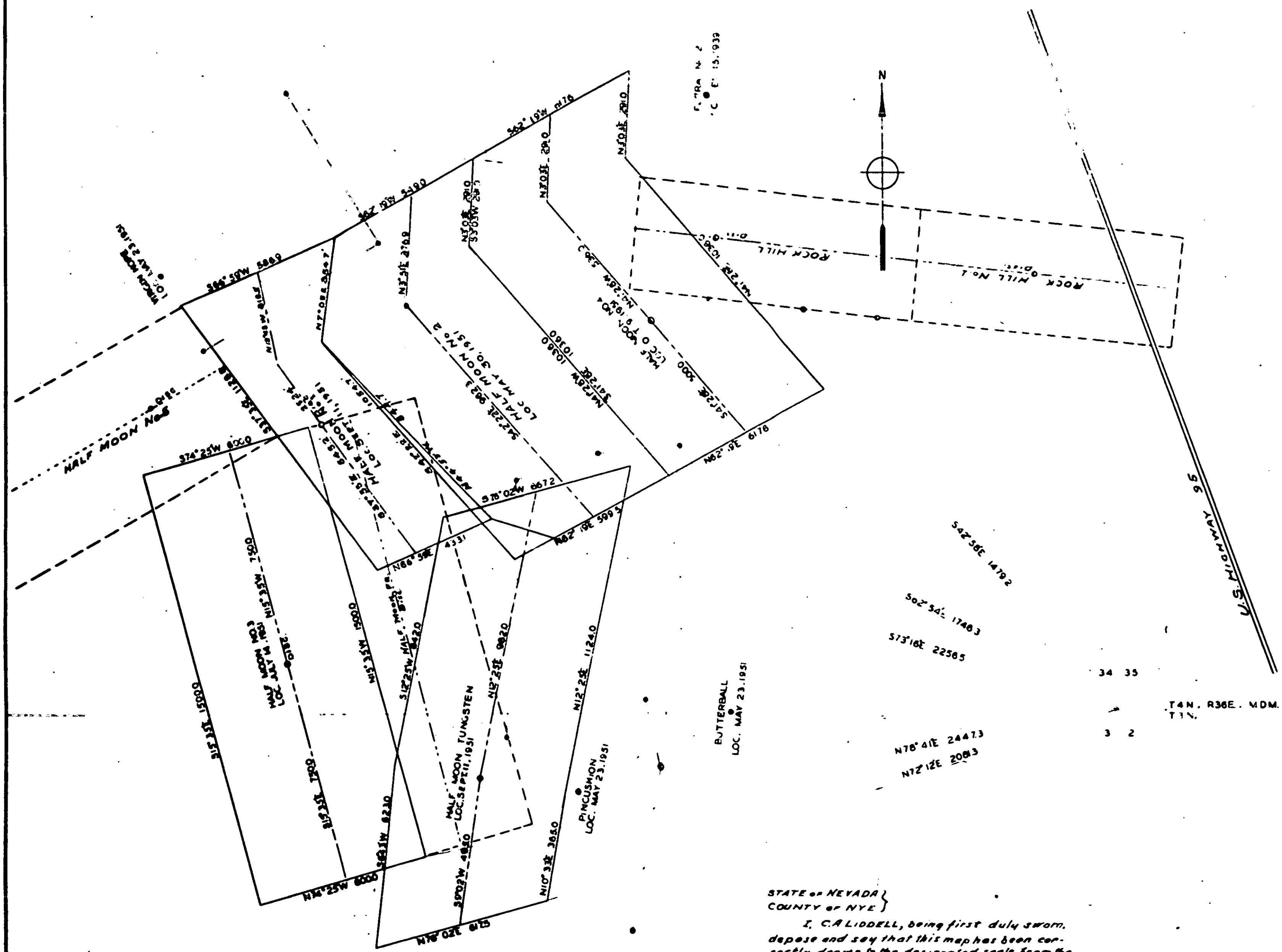
C.O. Liddell
Mineral Surveyor for Nevada

Subscribed and sworn to before me Nov. 10, 1951.

Notary Public in and for Mineral County, Nevada

FIG. 2

| | | |
|---|---|---|
| PROPERTY OF IRENE & SYKES MINA, NEVADA. | | |
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN BY DOTTED LINES. | |
| OCT 26, 1951 | SCALE 1" = 200' | MINA, NEVADA |

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COUNTY of NYE }

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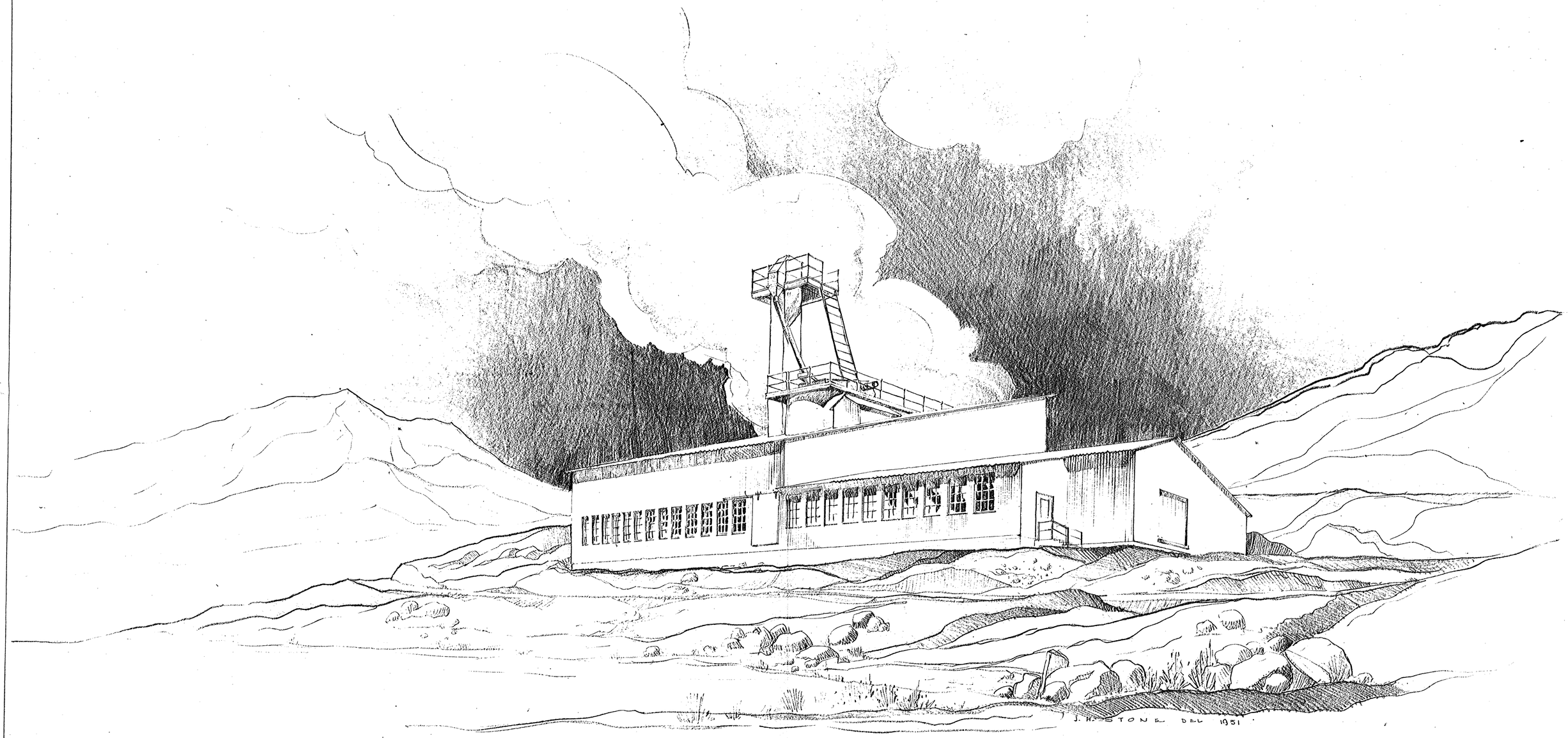
FIG. 2

| | | |
|---|---|---|
| PROPERTY OF IRENE & SYKES MINA, NEVADA. | | |
| ENGINEER - R.B. JONES | UNSURVEYED CLAIMS SHOWN by DOTTED LINES. | |
| OCT 26, 1951 | SCALE 1"=200' | MINA, NEVADA |

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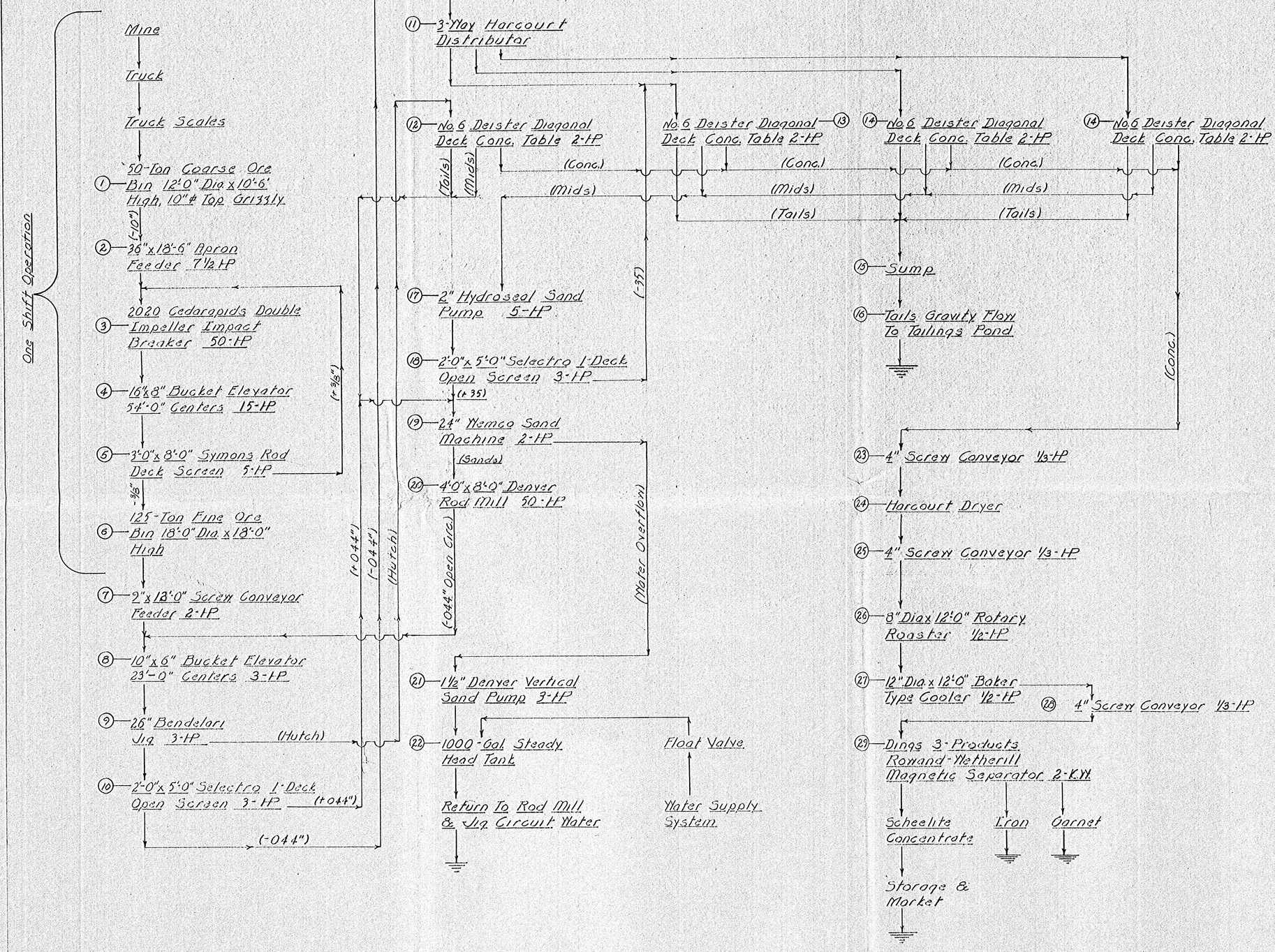
BY .....
M. GEORGE BISSELL DATE PLANT LOCATION

DRWN. J.H.S.
CKD.
TRCD.
APP.

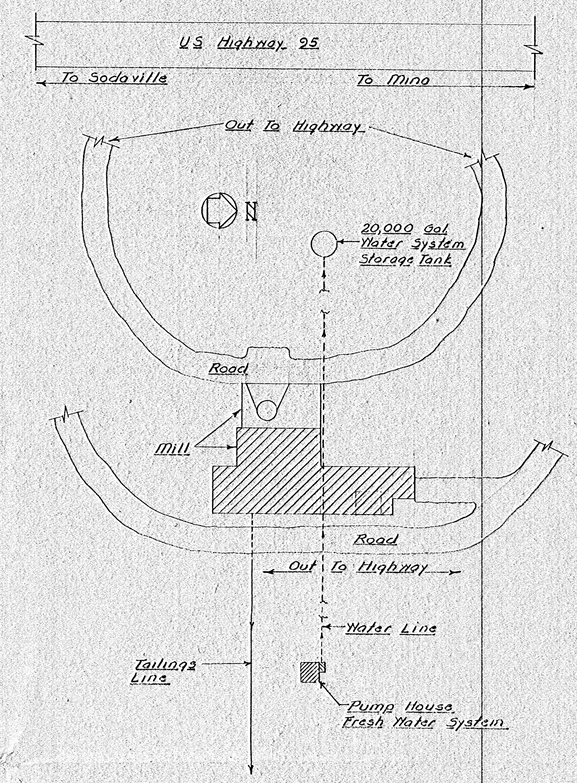
GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON
SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF.

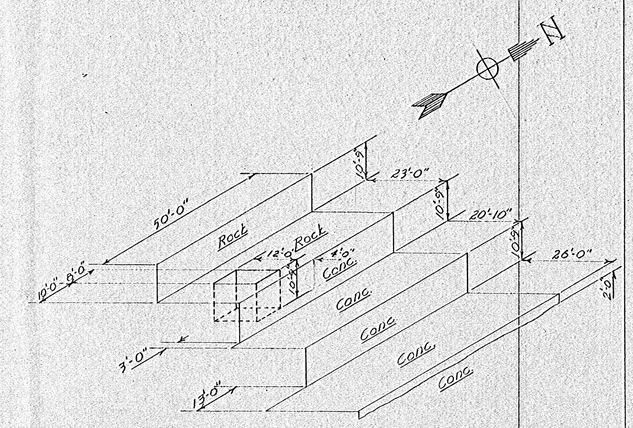
1
1 OF 1
12-17-51
SCALE ~




Estimated Total Connected HP = 164.5 ±




PARTIAL PLOT PLAN
Scale 1" = 40'-0"




EXISTING MILL SITE
Scale 1" = 20'-0"

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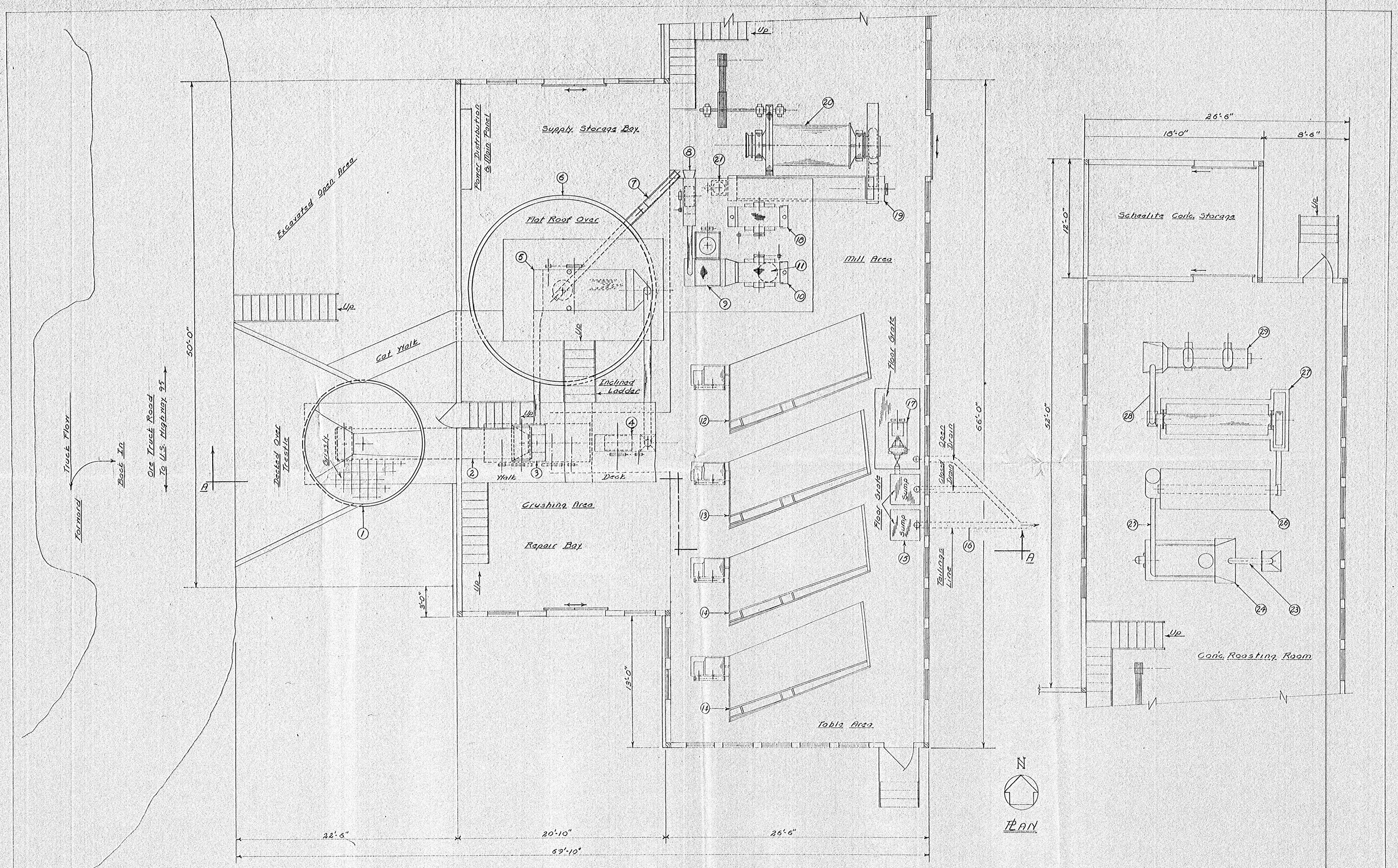
BY M. GEORGE BISSELL DATE PLANT LOCATION

| | | | | |
|---|---|---|---|---|
| DRWN. M.G.B. | GENERAL TUNGSTEN CO. | M. GEO. BISSELL | | |
| CKD. | MINA NEVADA | CONSULTING ENGINEER | | 2 OF 4 |
| TRCD. | TENTATIVE 100-TON | SACRAMENTO CALIF | | 12-15-51 |
| APP. | SCHEELITE MILL | | | SCALE ~ |

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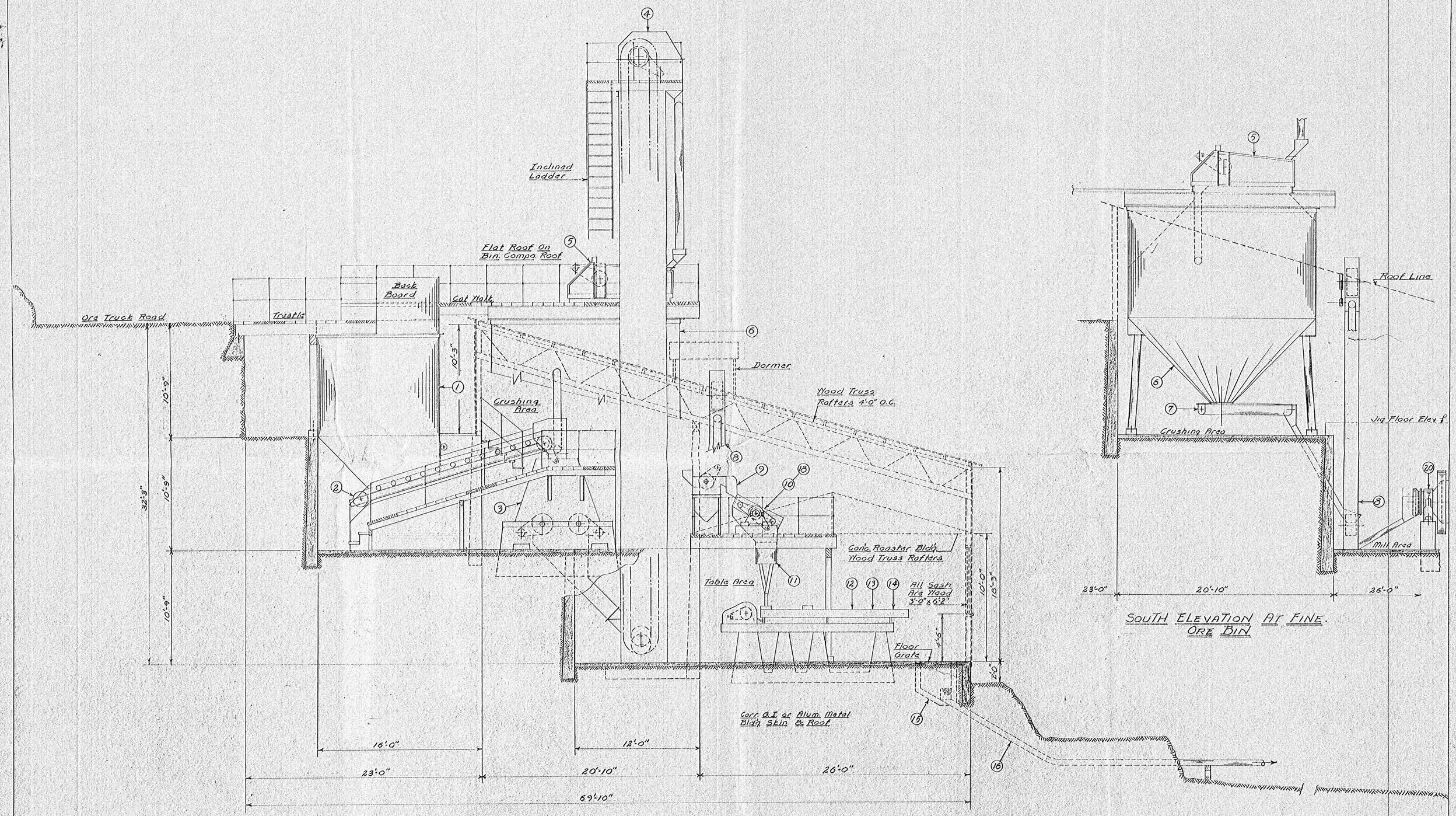
BY _____ M. GEORGE BISSELL DATE PLANT LOCATION

DRW'N. M.G.B.
CK'D.
TRC'D
APP.

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON
SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF

3
3 OF 4
12-15-51
SCALE 1/8"=1'-0"

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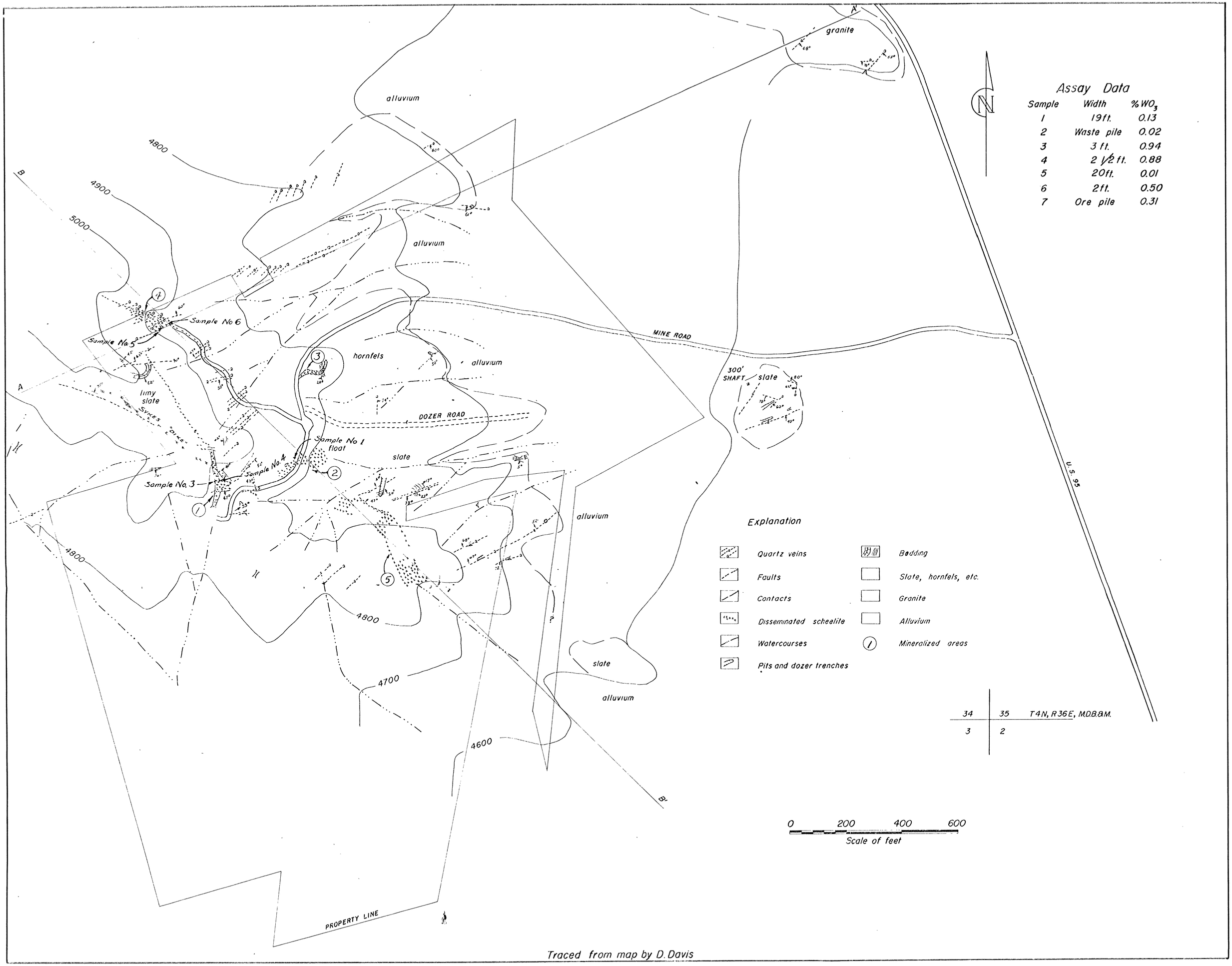
| DRWN. | M.G.B. |
| CKD. | |
| TRCD. | |
| APP. | |

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF.

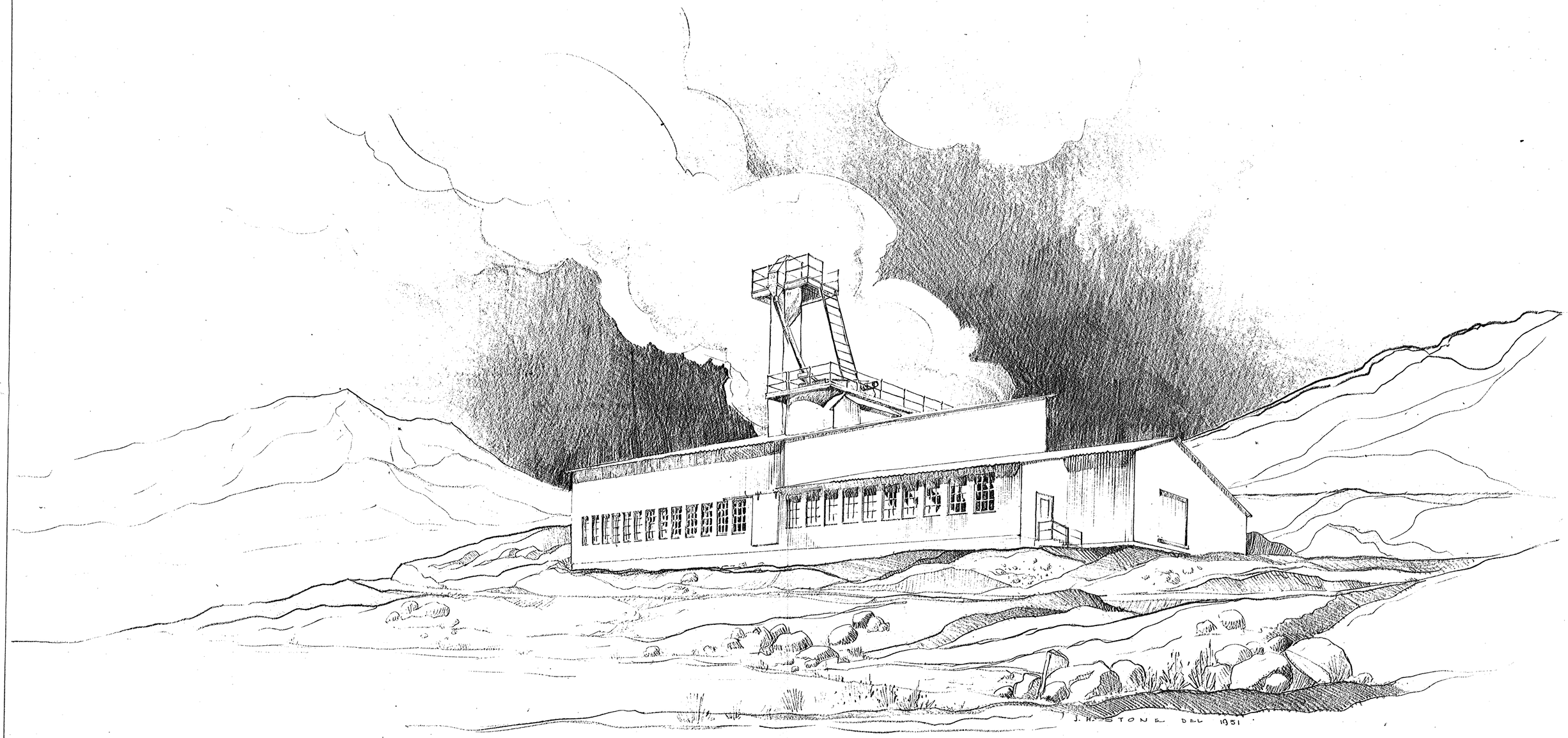
4

4 OF 4
12-15-51
SCALE 1/4"=1'




Traced from map by D. Davis

Fig. 3 Geologic map, Rock Hill Mines, General Tungsten Company

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DRWN. J.H.S.
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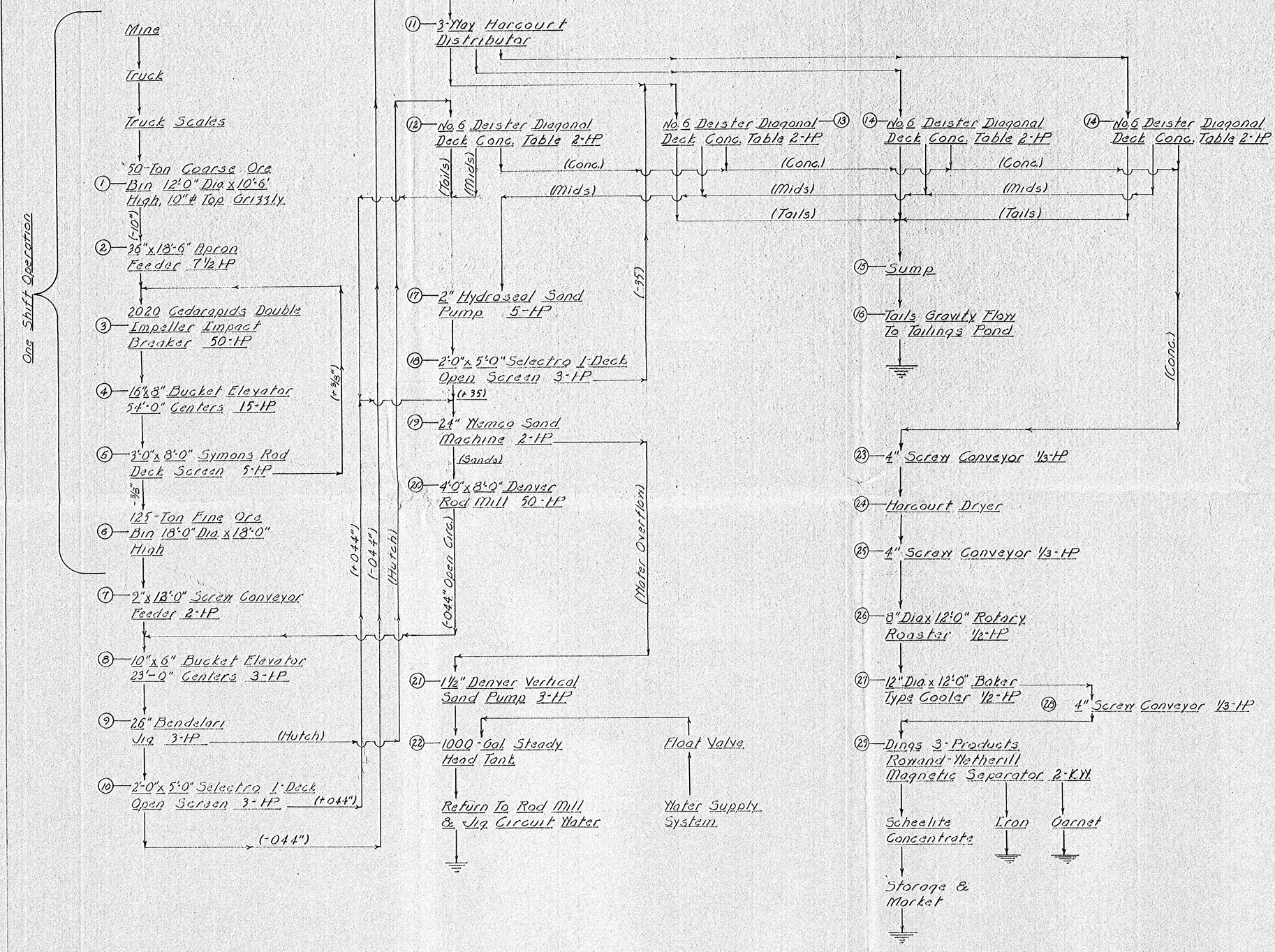
APP.

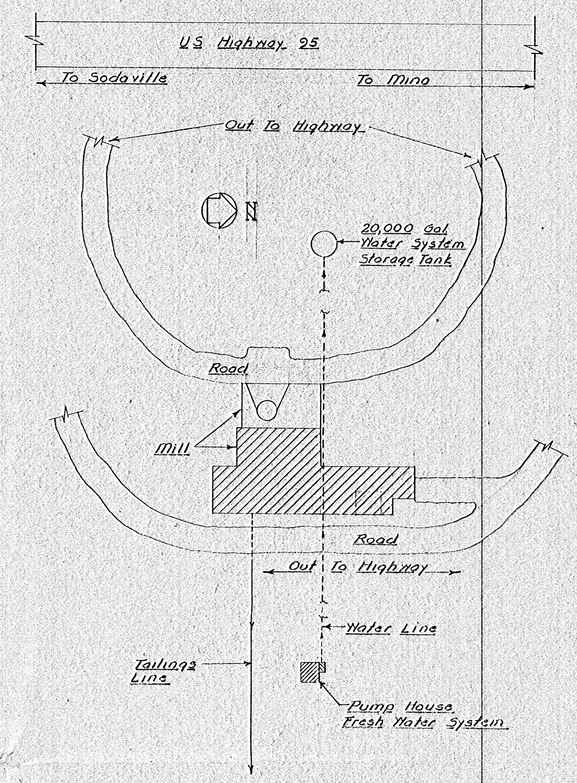
GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON
SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF.

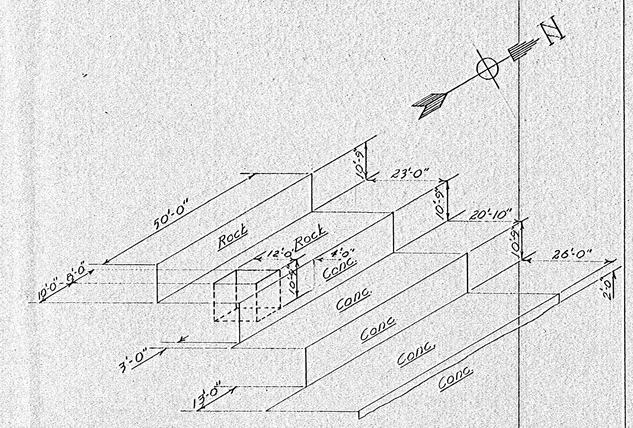
1
1 OF 1
12-17-51
SCALE ~




Estimated Total Connected HP = 164.5 ±




PARTIAL PLOT PLAN
Scale 1" = 40'-0"




EXISTING MILL SITE
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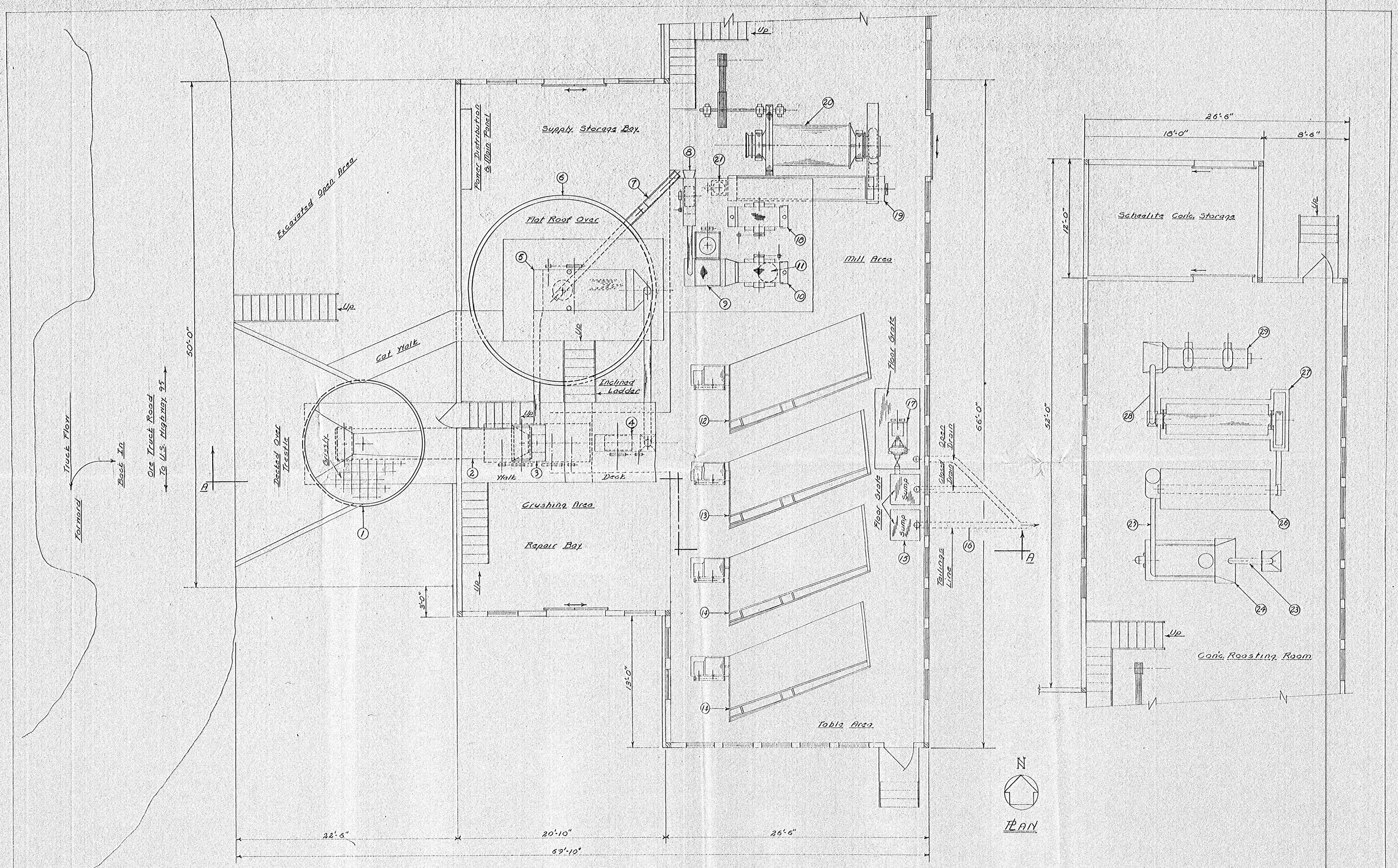
BY M. GEORGE BISSELL DATE PLANT LOCATION

| | | | | |
|---|---|---|---|---|
| DRWN. M.G.B. | GENERAL TUNGSTEN CO. | M. GEO. BISSELL | | |
| CKD. | MINA NEVADA | CONSULTING ENGINEER | | 2 OF 4 |
| TRCD. | TENTATIVE 100-TON | SACRAMENTO CALIF | | 12-15-51 |
| APP. | SCHEELITE MILL | | | SCALE ~ |

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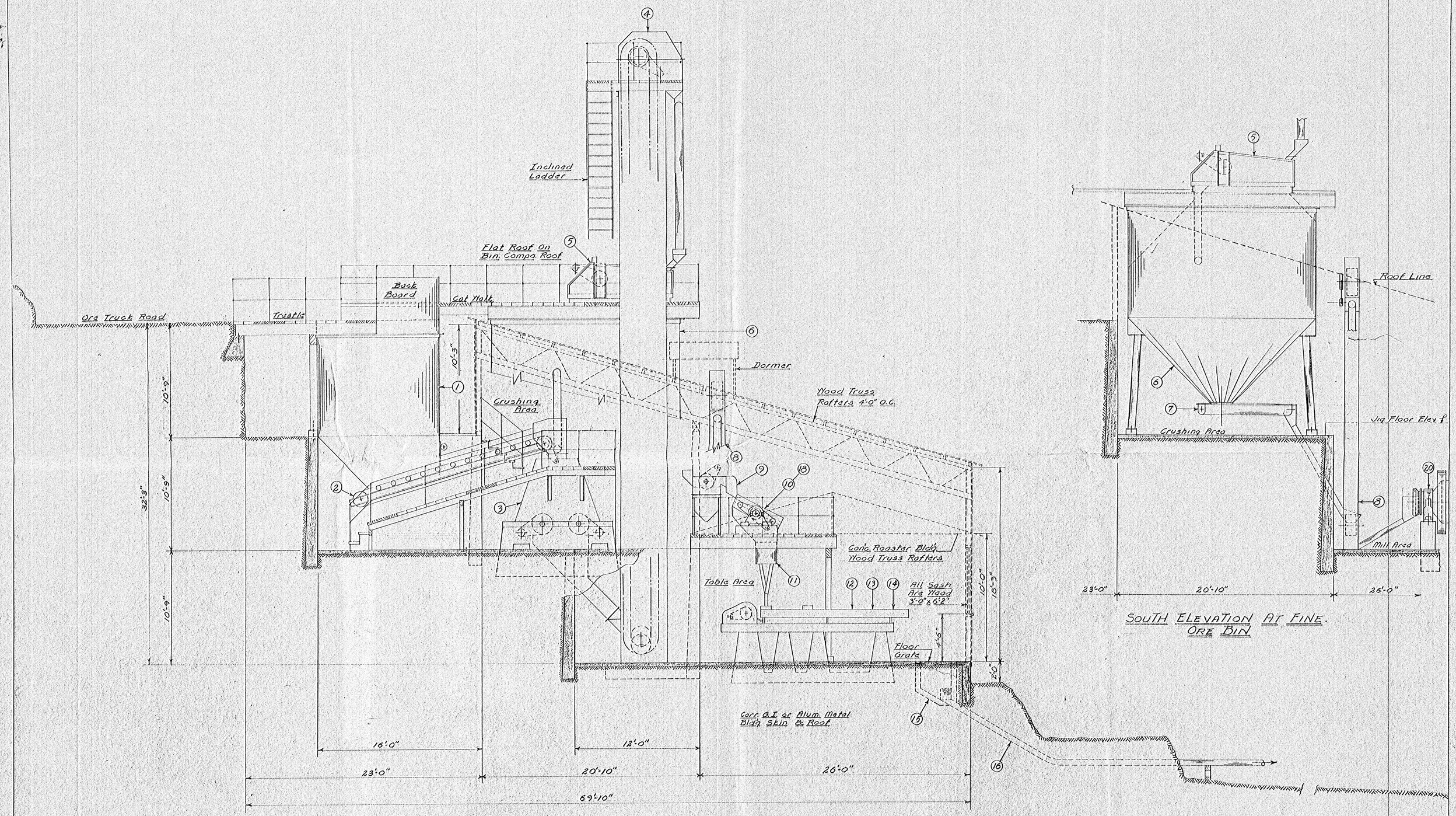
TRC'D
APP.

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON
SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF

3
3 OF 4
12-15-51
SCALE 1/8"=1'-0"

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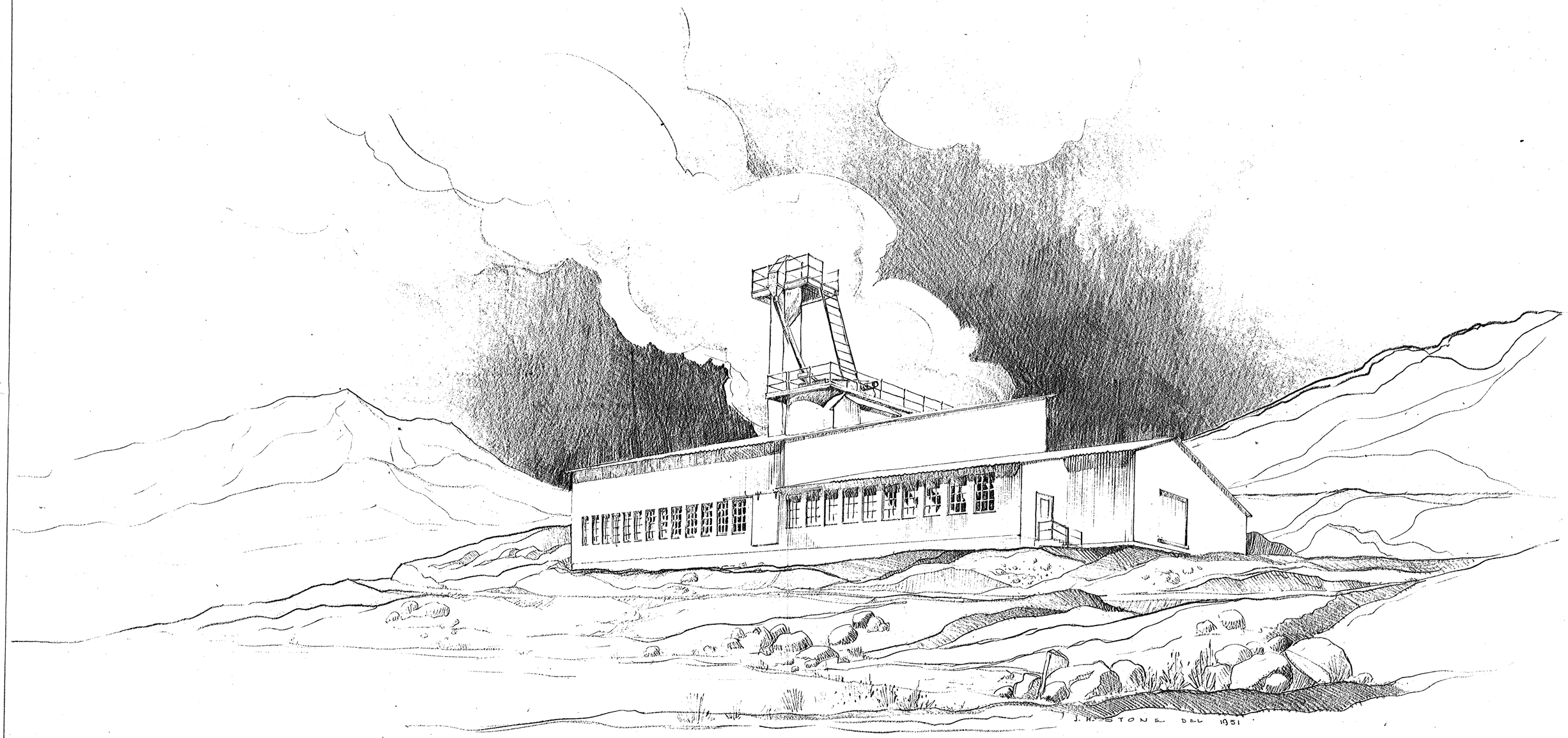
| | |
|---|---|
| DRWN. | M.G.B. |
| CKD. | |
| TRCD. | |
| APP. | |

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF.

4

4 OF 4
12-15-51
SCALE 1/4"=1'

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SCHEELITE MILL

M. GEO. BISSELL
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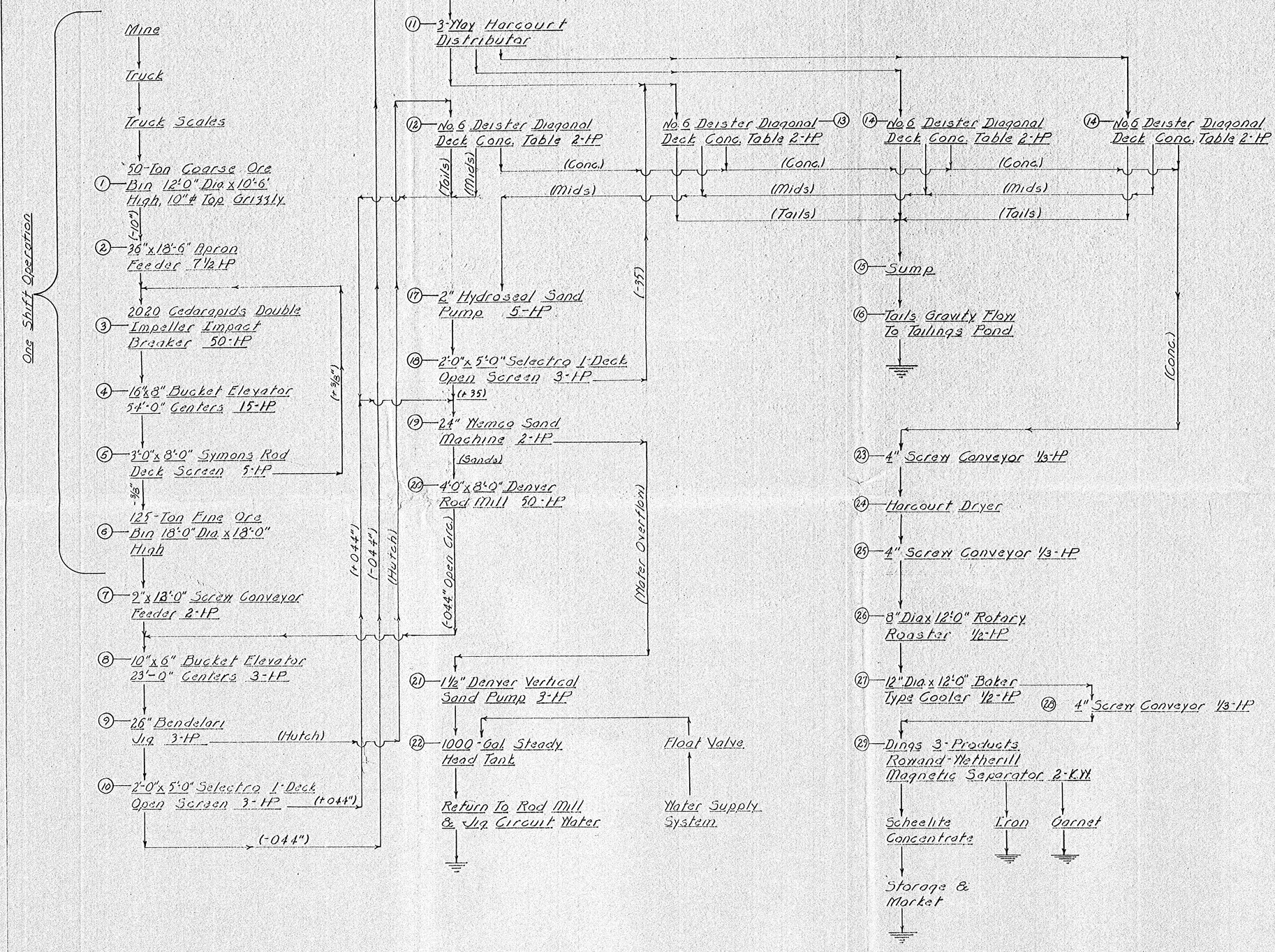
SACRAMENTO CALIF.

1
1 OF 1
12-17-51
SCALE ~

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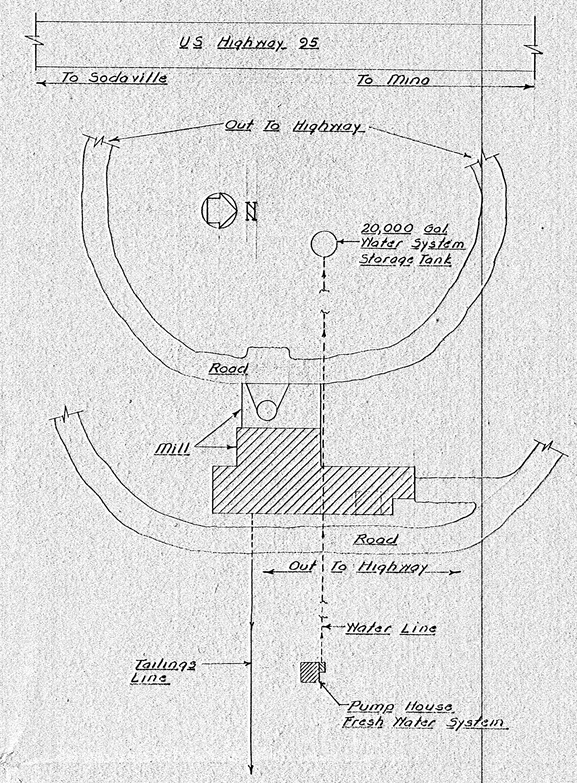
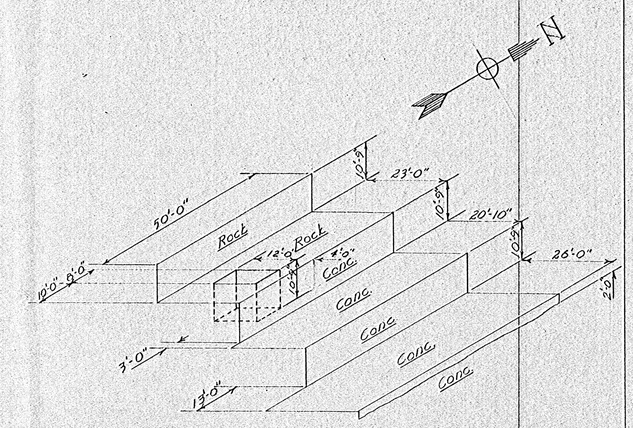



PARTIAL PLOT PLAN
Scale 1" = 40'-0"




EXISTING MILL SITE
Scale 1" = 20'-0"

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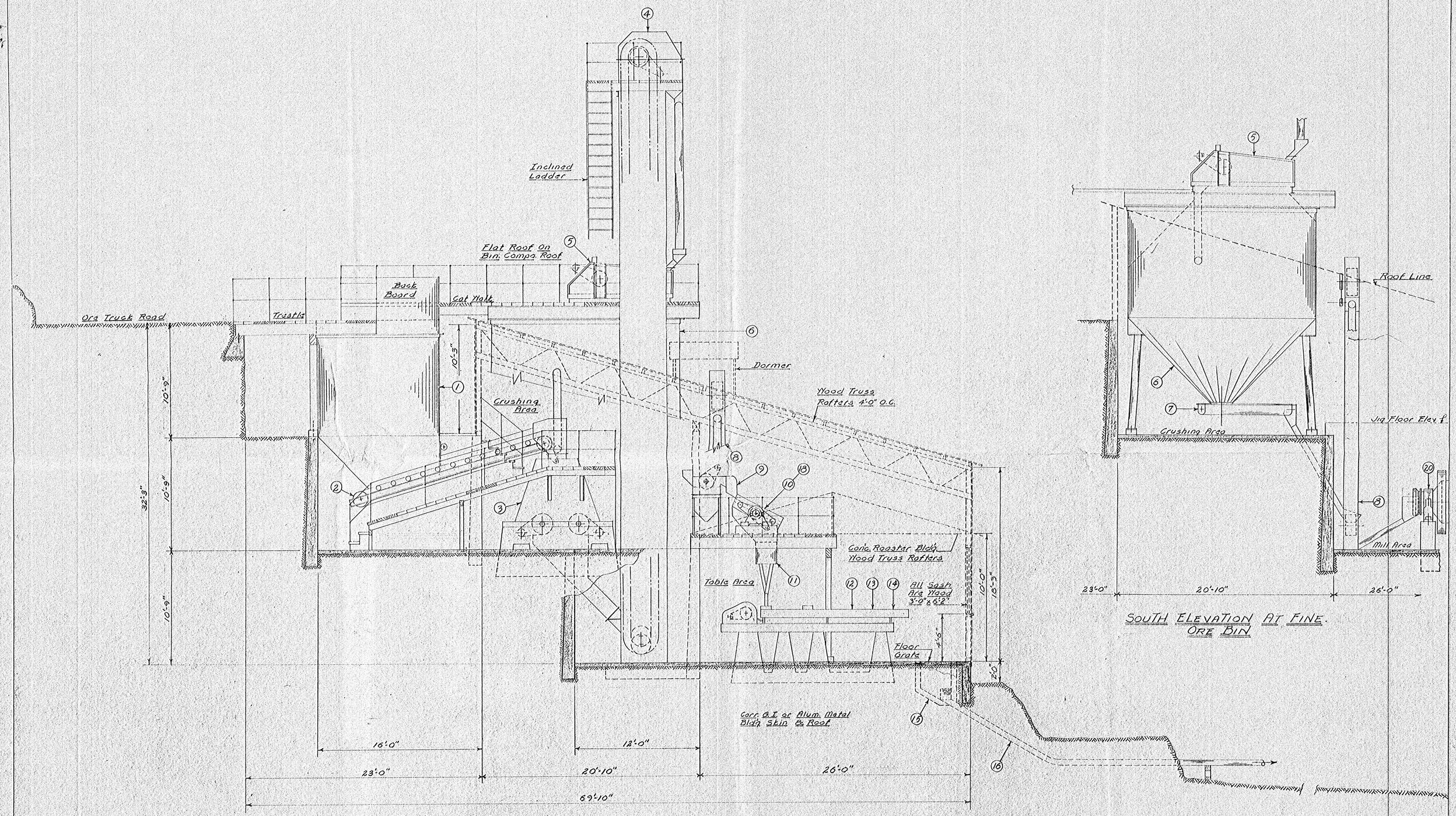
|---|---|---|---|---|
| DRWN. M.G.B. | GENERAL TUNGSTEN CO. | M. GEO. BISSELL | | |
| CKD. | MINA NEVADA | CONSULTING ENGINEER | | 2 OF 4 |
| TRCD. | TENTATIVE 100-TON | SACRAMENTO CALIF | | 12-15-51 |
| APP. | SCHEELITE MILL | | | SCALE ~ |

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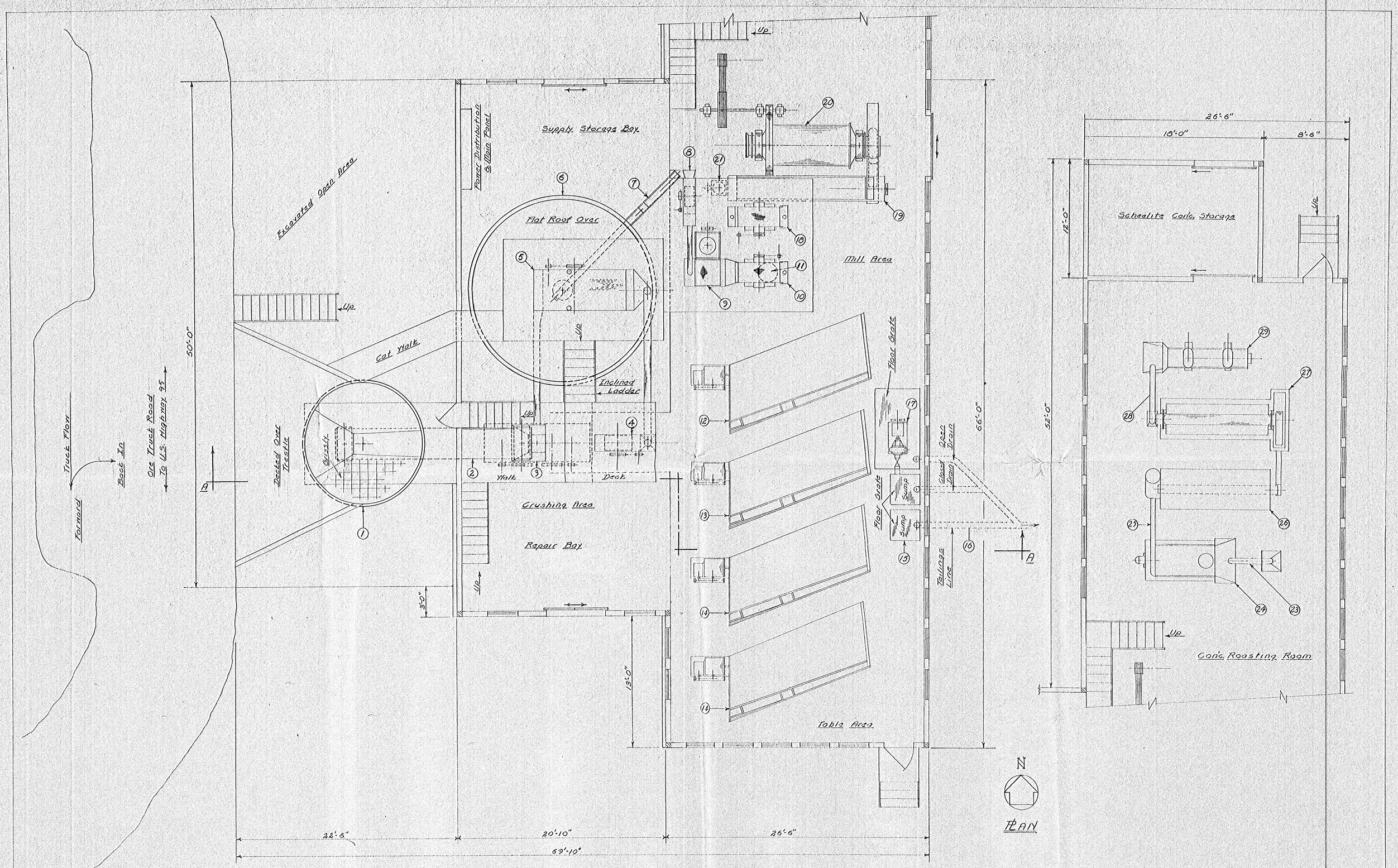
| APP. | |

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF.

4

4 OF 4
12-15-51
SCALE 1/4"=1'

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BY _____ M. GEORGE BISSELL DATE PLANT LOCATION

DRW'N. M.G.B.
CK'D.
TRC'D
APP.

GENERAL TUNGSTEN CO.
MINA NEVADA
TENTATIVE 100-TON
SCHEELITE MILL

M. GEO. BISSELL
CONSULTING ENGINEER
SACRAMENTO CALIF

3
3 OF 4
12-15-51
SCALE 1/8"=1'-0"