MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6633

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports

- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY M. E. RECEIVED 25 1967 OFFICE

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

William Perry Birchfield
RT# 2 Box 252
Deming
New Mexico, 88030

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6633
DATE RECEIVED: 5·25·67
REGION: III
DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [X]
- CORPORATION [ ]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: silver copper

ESTIMATED COST OF PROJECT: $ 45,170.00

PROPERTY
NAME: Birchfield
Georgia Bell mine
old name Bradley Group

LOCATION
COUNTY: Luna
STATE: New Mexico

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D.C., or with the nearest OME Field Office.~~ Washington, D. C., 20242, or with the nearest OME Field Office.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

May 21, 1967
DATED

William Perry Birchfield
BY *(Signature)*

owner
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C

SINCE 1905
FIRST NATIONAL BANK
OF DONA ANA COUNTY

LAS CRUCES, NEW MEXICO

THOMAS MAC GUGAN, JR.
CREDIT OFFICER

May 15, 1967

Mr. W. P. Birchfield
Rt. 2, Box 252
Deming, New Mexico

Dear Mr. Birchfield-

In answer to your request for a loan application of $69,000.00 for improvements on mines located in Deming, New Mexico, we regret that at this time we are unable to advance a loan of this amount.

Very truly yours,

T. Mac Gugan Jr.

TMG:adj

ASSOCIATES CONSUMER FINANCE COMPANY (N.S.L.)

606 North Bullard Street
Post Office Box 1036
Silver City, New Mexico 88061
Telephone: 538-3781

Mr. W.P. Birchfield
Rt. 2, Box 252
Deming, N.M. 88030.

May 16, 1967

Dear Mr. Birchfield:

Thank you for your recent request to us for $69,000.00 for improvements on the mines located near Deming. Unfortunately, the company does not have the facilities for a commercial loan of this size or type available.

Thanks again for considering us.

Regards,

J.I. Welsh
Mgr.

1. Financial Eligibility:

A. Copies of two letters are enclosed.

B. William Perry Birchfield is the owner of these mining claims. He received them through his mother's estate. Her name was Mary Jane Birchfield.

C. The necessary funds required by me shall be paid by the renting of machinery, my help, and miscellaneous expenses.

Need [illegible] Bank [illegible]

2. Applicant's Right In Land:

A. I William Perry Birchfield am the owner of these claims. These claims are unpatented. They have been in my family since 1880. I received them through the estate of my mother, whose name is Mary Jane Birchfield.

There are no liens or mortgages against these mining claims.

B. The legal description of these claims is Section 18 and 19, township 25, S.R. 7. W. These claims are recorded in book 8 of mining, page 437, in the court house in Deming, Luna County, New Mexico.

This property is known as the Bradley Group.

I own all of the mineral rights to this property.

3. Physical Description:

A. A map is enclosed of these claims. These mines are known as the Bradley Group. These mines have produced many tons of ore. In the late 1800 William Birchfield Sr. took $60,000.00 in Silver out of one of these mines. This ore was sold to the smelter in Deming New Mexico. We have tried to obtain a record of this sale, however was told that the smelter at Deming, burned, and all the records were burned. Ore was also sent to the Smelter at El Paso Texas, in the early days. The reports we were able to obtain are enclosed.

B. I am the owner of these mines, and would like to put them all into production. I am now on the property, living there, and working as much as possible to re open these mines. and explore them

C. Enclosed is a statement from Denver, stating some of the ore that was shipped from these claims.

D. I am not aa engineere or a geologist, however I am acquainted with these mines. My experience tells me that there is an abundance of ore in these mines. I do not have the necessary funds to hire these men to give you a geogolist report, however if you will take the time to inspect this property, I feel you will agree with me, that these mines are worth working. and exploring

E. These mines contain Lead, Silver zinc copper and gold. One geologist did tell me one time that the main ore in these mines were silver and copper.

The type of deposit is vein.

F. These mines have been sampled , mined and the ore has been sold.

G. I do not have geologic or engineering reports, as I do not have the necessary funds to have them made. I am enclosing a report of the ore that was sold by the Bradley Group. This will give you an idea. Also enclosed is a report of an assay. Please return them to me.

4. Accessibility Of Property:

A. The name of the owner and manager of these mines is William Perry Birchfield. He may be reached by writing P.O.Box 252 Deming New Mexico. He Has No Phone. He lives at the mining property, which may be reached by following the following directions:

Traveling from Deming, which is the starting point, travel 15 miles east of Deming New Mexico, on Highway 80. Then south on Franklin Farm road 5 miles to the end of the black top. Turn west 1 mile on grades road, then 1 mile south on country road to the old Kill ranch. Go through the Barb wire gate, follow road ¼ of a mile, turn south west on angle, go about 2½ miles, there will be a marker here. Turn off graded road west, go ½mile to wire gate, then 1¼ miles to old cattle guard, then about ½ mile to a newer cattle guard. Cross it turn to right down a ditch, follow road to first wire gate on left. There is a sign there that says keep out in spanish and english. You can see a wood house from this gate. Go through this gate ¼ of a mile to the mine.

B. The shipping and supply point will be 18 miles from the mine. It is the Southern Pacific Railroad. The first ore is to be trucked to the El Paso Smelter, at El Paso Texas. El Paso Texas is approximately 90 miles from this mining property.

If you were to write and inform me as to the day you would arrive to inspect the mining property, I could meet you at the Franklin Farm Road and 80 highway and take you to the mining property.

Eg. program ?

5. Exploration Work:

A. Map is enclosed to explain .

B. We do not have to build roads. The existing roads do need repair.

C. If an OME contract is executed, experienced workman would be hired and work would be completed with in the 2 year period. I am there at the mines now and working. Have been working for the past 6 months.

6. Experience:

A. I William Perry Hirchfield have been mining for the past 30 years. I own mines that contain Manganese. I operated these mines until the government stopped the program. My mines are good and still available for operation. As these mines were in my family all of my life, I was taught mining at an early age. If an OME contracted is executed I shall conduct the exploration work, and also supervise the work.

7. Estimate Of Costs:

A, 1 Buldozer D-8 - 9 days- 8 hrs. per day @ $20.00 per hr. $ 1440.00
needed to repair old road: marked green on map.

No 1 shaft size 6x7 - 150 ft. dig and timber where needed
@ $90.00 per ft. 13,500.00

No 2 incline 6x7- 100 ft. dig and timber where needed @
$65.00 per ft. 6,500.00

No 3 shaft 6x7- 100 ft. and 50 ft. tunnel at the bottom to be re timbered. Take old out and install new. and dewater. $ 75.00 per ft. complete. Cleaning oul timber out, and putting in new and dewater and all incidentale. 12,000.00

B. Personal Services:

Supervisor Engineer (1) man 7 days per week @$40.00 per day Foreman		280.00
Muckers Miners (5) 5 days per week- 40 hr. per week. @$3.00 hr. Hoistman		600.00
Labors (4) $2.00 per Hr.		320.00
Secretary (1) 6 days per week		300.00

All these services are available

C. Operating Materials and supplies:

Powder caps and fuses (1) ton @ $300.00 per ton	300.00
Gasoline 5000 gals. @ 30¢per gal.	1500.00
Oil 200 gals @ 1.50 per Gal.	300.00
Timber 25000 ft. @ $90.00per thousand ft.	2250.00
Pipe 3000 ft. 1 inch to 2 inch @ 40¢ft	1200.00
	$ 40,130.00

3 sets of 40' High Lumber Head Frames & chutes $1000.00 each

3 sets @ $1000.00 = 3000.00

D. Operating Equiptment:

A. All equiptment shall be rented.

Compressor, Hoist tools and etc per day rental $ 40.00

E. There is a cook's house that needs finishing Roof,- tar paper, plaster inside and out, cement floor, size of house 12x20 $ 400.00

F. New bunk house, and new cook house. 12x20 size each. Constructed of cement floor, tar paper roof, plaster inside and out $ 800.00 each $1600.00

G. These costs are charges by the year. The cost of them would depend on the time of the year we applied for them.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/2/68	Peterson	120
4/3/68	Kirkemo	120
"	Johnson	110
4/4	Kilzgaard	
4/4	Clyp	
		220
		120M

APR 8 1968

AIRMAIL

Mr. William Perry Birchfield
Route 2, Box 252
Deming, New Mexico 88030

Re: OME-6633 (Silver-Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

Careful study of your application for financial assistance to explore the subject property and of other information available to us indicates that the probability of disclosing significant ore reserves on the property is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application for assistance is denied.

We wish to thank you for your interest in the minerals exploration program and for bringing your property to our attention.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Peterson
Region III

ECPeterson/bsl 4/2/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/3/68	Kirkemo	120
"	Johnson	120
		110
		220
		120M

APR 3 1968

Memorandum

To: The File

From: E. C. Peterson

Subject: OME-6633 (Silver-Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Justification for Denial of Application

I concur with the OME field examiner and recommend that the application for assistance be denied for the following reasons:

1. Analyses of samples taken by the examiner indicate that principal metal values present in the deposit are lead and zinc, which are not presently on the list of minerals eligible for Government assistance. This is further borne out in production records included with the application.

2. Available geologic data indicates that any reserves of eligible minerals that may exist on the property are limited to occurrences in small pockets and narrow veins of insufficient quantity to be considered economically important.

Edward C. Peterson

Edward C. Peterson

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Peterson

ECPeterson/bsl 4/2/68

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration

March 27, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 29 1968
INITIALS | CODE
130
120
110
120

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6633 (Silver and Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Transmitted herewith is a report of examination on the above-stated property. I concur with the examining geologist, James L. Gualtieri, and recommend that the application be denied on the grounds that the Georgia Bell deposit does not qualify as a silver-copper deposit.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

UNITED STATES

DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, SECRETARY

U. S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION III

OME-6633 (Silver and Copper)

WILLIAM PERRY BIRCHFIELD

GEORGIA BELL MINE

LUNA COUNTY, NEW MEXICO

By

JAMES L. GUALTIERI

Geologist

March, 1968

Report of Exam.

Contents

	Pages
Introduction	1
The property	1
Geology	2
Conclusions	8
Recommendations	8

American Smelting And Refining Co.

El Paso Smelting Works

Bought Of W. P. Birchfield July 8, 1966
Address Box 252 Deming New Mexico

Gold	silver	lead	copper
	17.2	16.2	1.10

This assay was on the Bradley Group of Claims

The Custom Assay Office
P.O.Box 811
El Paso Texas

Name Mr. W. P. Birchfield 2-22-65

Lot	Gold	Silver	Lead	Copper	Zinc
# 1		10.8	5.7	2.74	1.7

Charges $ 30.00

Custom Assay Office

A. J. N.

This assay was on the Bradley Group Of Claims

DICKINSON LABORATORIES
201 N. Clark St. El Paso Texas

May 18, 1965

Certificate Of Assay

Assayed For Mr. W. P. Birchfield

Address RT# 2 Box 252, Deming New Mexico

Marked Samples marked as follows:

Gold	Silver	Lead	Copper	Zinc
	16.7	15.0	2.59	3.4

Charges $34.00

Geo. L. Dickinson assayer

This assay was on the Bradley Group Of Claims

Introduction

Mr. William Perry Birchfield applied to the Office of Minerals Exploration May 21, 1967 for financial assistance to explore for silver on the Georgia Bell Mine property--The Bradley group of claims in Luna County, New Mexico. The application was referred to the Office of Minerals Exploration, Region III, by the Office of Minerals Exploration, Washington, D. C. in July 1967. The examination was made on February 29, 1968 by J. L. Gualtieri in the company of Mr. William Perry Birchfield.

The Property

The Georgia Bell mine is located on the Bradley group of claims located in sections 18 and 19, T. 25 S., R. 7 W., New Mexico Principal Meridian and Baseline, in the Florida Mountains mining district, Luna County, New Mexico. (See map accompanying the application). The property is best reached by traveling over U. S. 70-80-180 for 7 miles east of Deming, over a straight, light-duty graveled road for 3-1/2 miles due south, and about 6 miles over the Florida Road, a winding, light-duty dirt road that runs southeast through the gap between the Florida and Little Florida Mountains as far as the Nunn Ranch, and about 1 mile southwest over a winding, unimproved dirt road. Some workings on the southeast end of the claims are directly accessible by road but those on the northwest end are not.

The Bradley group of claims is comprised (see map accompanying the application) of four claims aligned slightly north of west. The Bradley and Bradley 1 claims are located in line, the Bradley 2 claim is located on the north side of the group flanking the Bradley and Bradley 1 claims, and the Bradley 3 claim is located *en echelon*

fashion on the southwest flank of the Bradley claim. The claims are contiguous. According to the applicant, Mr. William Perry Birchfield, the claims are unpatented and are filed in the records at the Luna County seat, Deming, New Mexico.

Geology

The Florida Mountains are composed of rocks ranging in age from Precambrian to Tertiary (Darton, 1917). The Precambrian rocks include several types of granite, and also diorite and gabbro. They are exposed in the south and central parts of the range. Overlying the Precambrian rocks is an incomplete succession of sedimentary rocks of Paleozoic and Mesozoic age. The Paleozoic rocks are mainly carbonate types with minor sandstone and shale. They are exposed in the south central and northwest parts of the range. They are unconformably overlain by a single Mesozoic unit--the dominantly carbonate Lobo Formation of Cretaceous age. The Lobo Formation crops out in a relatively narrow band in the northern part of the Florida Mountains. It is overlain by a volcanic agglomerate of Miocene age (Lasky, 1940, p. 59), that contains minor interbeds of alluvially-deposited materials and flow rocks. The agglomerate is extensively exposed in the northeastern and extreme northern parts of the range.

The thickness of Paleozoic and Mesozoic sedimentary rocks may be as much as 2,000 feet in the Florida Mountains. The total thickness of agglomerate may be as much as 3,000 feet, including additional sequences of the unit in the Little Florida Mountains (Lasky, 1940, p. 59). Perhaps only as much as half or two-thirds--1,500 feet to 2,000 feet--of the agglomerate is present in the area of the Georgia Bell mine.

A number of east- and northeast-trending rhyolite dikes cut several rock units, including the Miocene agglomerate, and are considered the youngest rocks in the Florida Mountains.

The Florida Mountains are transected by several major east-west-trending faults and less extensive north-south trending faults, which bring Precambrian and Paleozoic rocks into adjacent position (Darton, 1917). At the north end of the range an east-west fault drops Miocene agglomerate against Precambrian, Paleozoic and Mesozoic units. A northeast-trending fault in the northern part of the range, that transects Precambrian and Paleozoic rocks, clearly predates the deposition of the Lobo Formation. The fault appears to restrict the extent of Paleozoic rocks in the northern part of the range to an area north of the fault, so that it is probable that the Lobo Formation is the only sedimentary unit underlying the area of the Georgia Bell mine.

The rocks in the several fault blocks have homoclinal attitudes--strikes to the north and dips to the east.

The deposits mined in the Florida Mountains are located along faults or fissures in granite or limestone, and contain oxidized or partly oxidized ores of lead, zinc, and copper. (Griswold, 1961, p. 122-128). Manganese has been mined from small pod-like replacement deposits in limestone (Lasky and Wooton, 1933, p. 81).

The Georgia Bell mine is comprised of about 12 separate workings, including shallow pits, open cuts, shafts, and a crosscut, that are randomly spaced over a distance of about 2,200 feet on a shear zone. The shear zone strikes N. 75° - 80° W. with near vertical

dips in the eastern workings and 70° S. dips in the western workings. The shear zone no doubt extends some distance beyond the westernmost and easternmost workings.

The shear zone where observed in the eastern workings appears to have a width of 1 foot to 4 feet but may be wider. The shear zone in the western workings has not been worked to its full width and may be as wide as 30 feet.

The material in the shear zone is argillized agglomerate that is commonly limonite stained in streaks and patches. Dark gray or black material that occurs locally as irregular bands in or near the walls of the shear zone may be manganiferous. Ore minerals are not commonly visible within the shear zone where it is exposed in the workings. Galena veinlets 1/4-inch to 1/2-inch wide are exposed in a footing dug for a head frame. Oxidized ore minerals of lead and zinc are thought to be present; they blend with argillized rock and are not discernible. Pyrite, malachite, azurite, specular hematite, calcite and quartz are present in dump material. Calcite is relatively common but quartz is relatively rare.

Analyses of samples taken from several of the eastern workings are as follows:

Sample No.	Kind	Material	Ag	Au	Cu	Pb	Zn
			Troy oz./ton		Percent		
6633-1	Channel	Limonite-stained argillaceous rock	0.36	T	0.440	2.60	4.12
6633-2	Channel	Limonite-stained argillaceous rock	1.34	0.015	0.164	8.44	1.17
6633-3	Grab	Mottled dark gray or black material in wall of shear zone	0.19	0.01	0.143	0.30	4.41
6633-7	Channel	Argillaceous rock	1.01	0.01	0.337	10.40	2.11

Analytical data obtained from channel samples and computed on a per ton basis at current prices, give values of ranging from about $17.00 to $37.00; gold and copper are not included in these figures. The samples were extracted across widths of about 4 feet, 1 foot, and 4 feet, respectively. The sampled widths are either of total exposed rock or of faces handily channeled, but these widths may be less than the total width of mineralized rock in the shear zone. It is possible that working faces 5 feet wide can be developed to mine material with a value in excess of $20.00 per ton.

The shear zone in the western workings is similar to that in the eastern workings except that it is wider and is less thoroughly mineralized. The shear zone rock in the western workings contains minute grains or aggregations of grains of specular hematite in pockets or narrow irregular bands. In places the grains of hematite form more or less regular bands which appear to reflect the overall attitude of the shear zone. These may be located on or along shear planes. The pockets or irregular bands, of course, have no orientation.

The bands are 1/4-inch to 1/2-inch wide and spaced a few inches to more than 1 foot apart. Analyses of samples taken from workings in which hematite is noted are as follows:

Sample No.	Kind	Material	Ag	Au	Cu	Pb	Zn
			Troy oz./ton		Percent		
6633-4	Channel	Limonite-stained argillaceous rock, contains disseminated grains of hematite	0.08	0.005	0.164	0.41	0.61
6633-5	Grab	Grains of hematite concentrated in pocket of argillaceous rock	5.92	T	0.420	14.88	5.01
6633-6	Channel	Argillaceous rock, contains hematite concentrated in regular bands	T	T	0.143	1.04	0.20

The analysis of grab sample 6633-5 shows a high content of silver, lead and zinc. The pocket must have originally contained primary minerals of these elements intimately associated with hematite. These minerals were subsequently oxidized, leaving hematite as minute but conspicuous grains in argillaceous host rock.

Channel samples 6633-4 and 6633-6, were extracted across widths of 8 feet and 3-1/2 feet, respectively. The analyses reflect what is visually evident; hematite and associated oxidized minerals of silver, lead and zinc constitute so minor a part of the rock that the rock cannot be profitably mined.

The mineralized material in the easternmost workings is restricted to a narrow zone or vein 4 inches to 7 inches wide.

Sample No.	Kind	Material	Ag	Au	Cu	Pb	Zn
			Troy oz./ton		Percent		
6633-9	Channel	Dark brown limonite stained argillaceous rock	T	0.005	0.122	0.10	0.51
6633-10	Channel	Copper-stained argillaceous rock	4.40	T	1.813	5.84	1.45

Samples 6633-9 and 6633-10 are both from the mineralized zone; sample 6633-9 was taken from near the bottom of the working where the mineralized zone is 5-1/2 inches wide, and sample 6633-10 was taken from a point about 20 feet higher where the zone is 7 inches wide. These data indicate the zone is not consistently mineralized along the dip and the predictability of values to be found at depth are dubious. Further, the width of the mineralized zone, if computed at the analytical values of sample 6633-10 would not furnish sufficient material to be profitably mined.

Galena, sphalerite, specular hematite and copper-stained material are found on the dumps of the western workings. Galena and sphalerite occur in nodules up to 3/4 inch in diameter and are considered the unoxidized remnants of originally larger bodies or masses. A search to find these minerals in place in the western workings was not rewarded. The gangue minerals in the western workings are calcite and quartz; calcite is relatively abundant and quartz relatively sparse.

Conclusions

1. The Georgia Bell mine is located in a lead-zinc deposit. Computations based on current metal prices and the analyses of samples taken from several of the workings show that the monetary value of lead and zinc considerably exceeds that of silver. This is further borne out in production records included with the application.

2. The deposit appears not to be economically exploitable, except possibly in the area of the eastern workings. Mineralized shear-zone material is generally low grade. Where it is ore grade, such material is limited to small pockets and narrow veins of insufficient quantity to be profitably mined.

Recommendations

It is recommended that the application be denied on the grounds that the Georgia Bell deposit does not qualify as a silver-copper deposit.

References Cited

Darton, N. H., 1917, Description of the Deming quadrangle: U. S. Geol. Survey Atlas, Folio 207.

Griswold, George B., 1961, Mineral deposits of Luna County, New Mexico: State Bureau of Mines and Mineral Resources, Bull. 72, New Mexico Institute of Mining and Technology.

Lasky, S. G., 1940, Manganese deposits in the Little Florida Mountains, Luna County, New Mexico: U. S. Geol. Survey Bull., 422-C, p. 55-73.

Lasky, Samuel G., and Wooton, Thomas Peltier, 1933, The metal resources of New Mexico and their economic features: State Bureau of Mines and Mineral Resources, Bull. 7, New Mexico School of Mines.

Office of Minerals Exploration
Building 53 Room 203

February 2, 1968

OFFICE OF MINERALS EXPLORATION
RECEIVED
FEB 7 1968
INITIALS CODE
120
120
120

Mr. William Perry Birchfield
Route 2, Box 252
Deming, New Mexico 88020

Subject: OME-6633 (Silver-Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

My present plans indicate that I will be in your vicinity the last week of February and would like to make a field examination of the above-stated property at that time. As I have other commitments on this trip and do not know how long the examinations will take, I will have to make the tentative date as Wednesday, the 28th or Thursday the 29th. Using the map you enclosed with your January 24th letter, I will go directly to the mine where you live.

If this is not convenient for you or if there is any change in weather making the property inaccessible, please call Mrs. Clark, Secretary of the Office of Minerals Exploration, Denver, Colorado. Her number is (303) - 233-3611, extension 8598 or 8731.

Very truly yours,

H. L. Emerick
mc

H. L. Emerick,
Office of Minerals Exploration

cc: Chief, OME
OME-6633
OME chron
Mr. Emerick

OFFICIAL
COPY
O. M. E.
RECEIVED
JAN 31 1968
INITIALS | CODE
130
bol 120 M
110
120 P

Office of Minerals Exploration
Building 53 Room 203

January 29, 1968

Mr. William Perry Birchfield
Route #2, Box 252
Deming, New Mexico 88030

Subject: OME-6633 (Silver-copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

Your letter of January 24, 1968 received and we will contact you again very shortly. It is our practice to take care of as many examinations in an area as is possible. Weather conditions make it impractical to examine a nearby property in New Mexico which we would like to make the same week as yours. As soon as the weather improves, we will again get in touch with you.

Very truly yours,

William L. Emerick

William L. Emerick,
Office of Minerals Exploration

cc: Chief, Office of Minerals Exploration
OME-6633
OME chron
Mr. Emerick

OME Docket Surname

1/26/68 120

110

220

January 26, 1968 120M

Memorandum

To: The File

From: Assistant Chief, Office of Minerals Exploration

Subject: OME-6640 (Silver)
McFarland and Hullinger
Keystone Mine
Gunnison County, Colorado

Max Evans phoned this office on January 24, 1968, to discuss the proposal in our letter dated January 19. Mr. Evans expressed appreciation for our prompt attention to the application and suggested that the drifting proposed on the Union vein be reduced in order to permit a crosscut to the Keystone vein and some drifting permitted on it. The purpose of this alternate proposal would be to explore two targets instead of one as we had proposed.

We suggested that he write us describing the alternate proposal.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Division File
Economic Geology File
OME docket
OME Reading File
OME Region III
Mr. Kirkemo

HKirkemo/gla 1-26-68

HAROLD S. COOK, JR.

417 SOUTH HILL STREET
LOS ANGELES 13, CALIFORNIA

MADISON 9-2009

OME-6650

January 4, 1968

RECEIVED
JAN 8 1968
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 12 1968
INITIALS | CODE

Mr. H. J. Stager
Field Officer
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

Dear Mr. Stager:

Enclosed please note a set of the maps that I showed you in Menlo last month as per your request.

We have found that there is a rather pronounced seasonal change in results from the mercury method when the samples are taken at the surface of the ground. Therefore, the plate marked No. I shows the months that the samples were taken, basically there seems to be at this location a variation of approximately 200% between the winter and the summer months. This we have confirmed again in 1967, as we repeated a few samples both in the winter and summer months of 1967 and the results thereto were within 5% of being identical. The reason for this difference is due to the summer melting of the bacterial biocenose waxes. This we believe is an important phenomena that should be taken into consideration on any and all mercury surveys, especially in areas where the summer temperature at the surface is above 95° Fahrenheit.

In addition we have found that the collection of heavy minerals in the surface is markedly enhanced during the warmer months. Thus, we see at least two types of bonding being effective at the surface, namely, ionic bonding and for want of a better word, a wax bonding.

The additional enclosed maps marked II-A and B, III-A and B, and IV-A and B are an attempt on our part to show by contouring the possible underground structure of the ore shoots. Maps II-A and B show the results using the exact values when taken; III-A and B, is contoured only using April through September 1966 results; IV-A and B, is using all values and increasing the winter values by an arbitrary factor of 3.

I am hopeful that we shall be hearing from you in the near future as to the Office of Minerals Exploration's decision in this matter. With kindest personal regards.

Sincerely,

Harold S. Cook, Jr.

Harold S. Cook, Jr.

enc
HSC/t
cc: Mr. Thor H. Killsgaard
Mr. E. F. Lawrence

Office of Minerals Exploration
Building 53 Room 203

January 18, 1968

Mr. William Perry Birchfield
Route 2, Box 252
Deming, New Mexico 88030

Subject: OME-6633 (Silver-Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

Will you please let us know the earliest date you think the above-stated property will be accessible for a field examination? We are setting up our schedule and would like to set a tentative date as soon as possible.

Sincerely yours,

J. William Hasler
mc.

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
OME-6633
OME chron
Mr. Hasler

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	Peterson	120
7/10/67	Shikamo	120
		110
		220
		120M

JUL 1 1967

AIRMAIL

Mr. William Perry Birchfield
Route 2, Box 252
Deming, New Mexico 88030

Re: OME-6633 (silver-copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

This will acknowledge receipt of your letter dated June 30 in which you forwarded additional information pertaining to the subject application.

Please note that allowable costs under an OME contract do not include full book value allowances to the operator for his equipment used on a contract. Rather, for each piece of his equipment used the operator is compensated by allowing depreciation of the extent of 1/60th of the fair market value of the equipment or its book value, whichever is less, for each month used. If the equipment is rented, a fair rental charge per month is allowed.

Your application is now being referred to Mr. J. William Hasler, Field Officer, Region III, Office of Minerals Exploration, U. S. Geological Survey, Building 25, Federal Center, Denver, Colorado 80225. Mr. Hasler will notify you if additional information concerning the application is needed, and possibly to make arrangements for a field examination.

As Mr. Hasler is responsible for making OME field examinations in eleven states, a visit to your property necessarily will have to be scheduled well in advance.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

EPeterson:mch 7-10-67

OME Docket
Chron.
130

OME Reading
OME Region III*
Mr. Peterson

* w/cy of Birchfield's ltr. of 6/30/67 + 3/5/67 to Consumer Finance

ccL Director's Reading file
Division file
Econ. Geol. Reading file

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	Petersm	120 P
7/10/67	Kirkemo	120
		110
		220
		120M

JUL 10 1967

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6633 (silver-copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

The subject application is referred to you for further consideration, a field examination if warranted, and recommendations.

The application is poorly prepared, and although the assay data submitted with the application indicate that eligible minerals may be present, additional supporting geological evidence is necessary to substantiate the Applicant's request for assistance. However, it appears that further correspondence between this office and the Applicant would add little information to what has already been submitted. Consequently, these data may possible be obtained only from a field examination of the property.

In his letter of June 30, the Applicant revised his original proposal to include more underground work and less rehabilitation. The amount of work and costs are not discussed.

FRANK E. JOHNSON

Frank E. Johnson

cc:
Director's Reading file
Division file
Econ. Geol. Reading file
OME Reading
OME Docket
Mr. Peterson
Chron.
130

EPeterson:mch 7-10-67

23263

United States Department Of the Interior
Geological Survey
Washington 25, D.C.

June 30, 1967
2 Box 252
Deming, New Mexico
RE: OME - 6633

JUL 3

Mr. Frank E. Johnson:

The information that you requested in your letter of June 26, 1967 is stated below.

1. Financial Eligibility :
   (a) Enclosed are two copies of the let ters that were taken to the loan Co. I took these letters in person to each of the loan companys.

   (c) I have enough funds to take care of the needed expense, if expense should occur ,until my monthly assistance arrives. I have a secretary that shall see that the vouchers are mailed correctly each month, and on time.

3. Physical Description:
   (f) The assay samples of ore were cut cross ways of the vein, and ex ways of vein. These veins average 1 foot to 2 feet wide, Each sample averaged about 75# lbs. It was ground to fines, mixed, and quarted, and the assay was run on one quarter of the sample. Three samples were taken from No 1 claim. Workings no. 108 ft. shaft, 65 ft. shaft and 50 ft. shaft.

5. Exploration Work:
   (a) The veins in these claims runs east and west. As you can see by the map sent with the application, that there is quite a distance from the various shafts in each claim. In the No. 1 claim , I would like to explore from the 50 ft. shaftfollowing the vein to the 10 ft. shaft, then on to the 40 ft. shaft in the no. 1 claim. There is ore on the top of the ground in these areas, I feel that there is ore also under the ground, thus the reason for wishing to explore these areas. In order to explore in the existing shafts, timbering would have to be done, in order to make the shafts safe to work in. I understand that the word explore means to thoroughly inspect. This is exactly what I would like to do. As 20% of the total project is considered maxium for rehabilitation, it possibly would be best for me to concentrate the greater part of this contract to exploring the areas listed in 5. (a) in this letter.

   This property is rich in minerals, and I would appreciate it greatly if I could get some OME assistance to explore this property. I am here at this mining property and have been for the past months. I can show this property to the government at any time, and would appreciate assistance as soon as possible.

Thanking You
Sincerly
William Perry Birchfield
William Perry Birchfield

gfh/

March 5, 1967
RT# 2 Box 252
Deming,
New Mexico

Consumer Finance Co.
606 North Bullard St.
Silver City
New Mexico

Dear Sirs:

I own some mining property, located in Luna County New Mexico. These mines at one time were in production. I would like to re open them, and also to some exploring work. With the high cost of labor and etc. it is necessary for me to seek a loan , in order to re open and explore these mines. To do the necessary exploring work it will cost approximately $ 69000.00. The minerals in this property is silver, copper, gold, lead and zinc. If you are interested in making a loan to me , please inform me immediately, and I shall come into your office and make out the necessary papers. The property that I have consists of 4 claims, a total of 80 acres. I can be at your office at any time, any day to fill out the necessary papers.
I would appreciate you giving this your immediate attention, and I would appreciate a reply as soon as possible.

Thanking You,
Sincerely

William Perry Birchfield

William Perry Birchfield

gfh/

BGE Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/26	Peterson	120
8/24/67	Hudson	120
		110
6/26	Cal	220
		120M

AIRMAIL

JUN 26 1967

Mr. William Perry Birchfield
RT #2 Box 252
Deming, New Mexico 88030

Re: GME - 6633 (Silver-Copper)
William Perry Birchfield
Georgia Bell Mine
Luna County, New Mexico

Dear Mr. Birchfield:

A preliminary review of your application for financial assistance to explore the subject property shows that additional information is required to continue its processing.

The information needed is listed below under the same heading as listed on the back of the application form (BGE Form 40).

1. Financial Eligibility:

   (a) Submit copies of your letters to the two banks requesting an exploration loan.

   (e) For your information, in the event that an exploration contract is granted, the Government pays its share of the costs at the end of each month after a voucher for the costs incurred has been submitted and approved. Normally, it takes two or three weeks to process such a voucher. However, we find that many operators do not submit their vouchers promptly, and, in other cases the vouchers or reports have not been properly prepared and must be returned to the operator for corrections. An applicant, therefore, should have sufficient funds available to pay for all the costs of the project during these periods.

3. Physical Description:

   (f) Information as to widths of the samples for which you provided assay certificates, sampling methods used to obtain your samples and locations of the sites sampled should be furnished. Also include any further geological data of the claim area that may be available.

23263

5. Exploration Work:

(a) The proposed work should be described fully, indicating the specific geologic targets you wish to explore and how you propose to explore them.

It appears that most of the proposed work consists of rehabilitating old mine workings, roads, and buildings. Such work is more in the nature of development than exploration and should not constitute the bulk of your project under OME regulations. Under an OME contract 20 percent of the total project costs is considered maximum for rehabilitation.

We will be glad to consider your application further upon receipt of the requested information. However, nothing in this letter should be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
OME Region III File
Mr. Peterson
OME Docket

FEJohnson:hwp

May 25, 1967

Mr. William Perry Birchfield
RT #2 Box 252
Deming, New Mexico 88030

Subject: OME-6633

Dear Mr. Birchfield:

Your application for exploration assistance, dated May 21, 1967, submitted to our office at Washington, D. C., has been assigned Docket No. OME-6633.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to R-III with copy of application

GEO MERQ — YERMO QUAD — T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

I

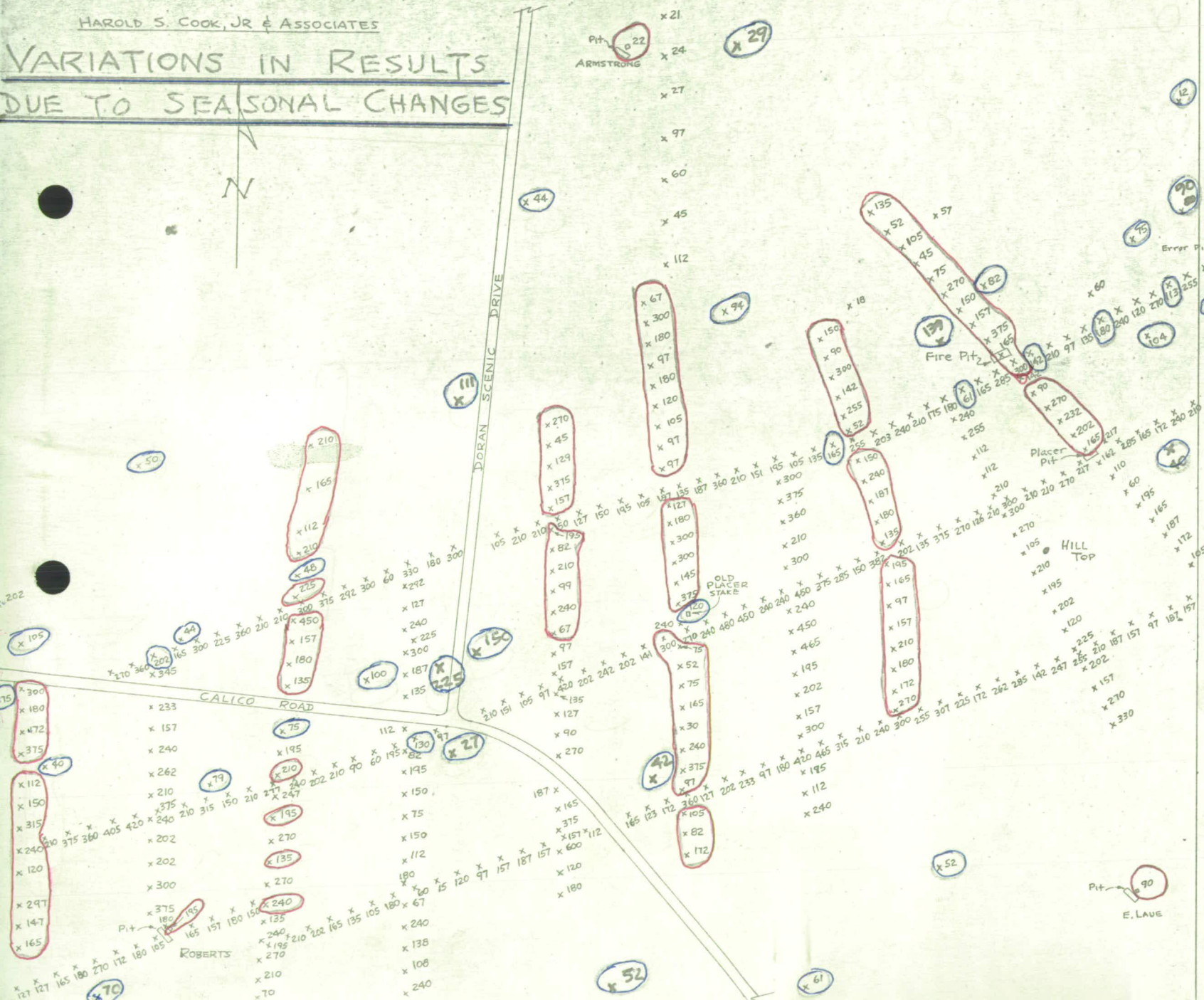
SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

HAROLD S. COOK, JR & ASSOCIATES

VARIATIONS IN RESULTS DUE TO SEASONAL CHANGES



1966

BLUE ~ JAN., FEB. & MAR.

RED - APRIL

BLACK - AUG. & SEPT.

DEC 1966
WFR

GEO MERQ YERMO QUAD T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM of Hg.)

SECTION 22 23

II A

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

INTERVAL COLOR CODE

HAROLD S. COOK, JR & ASSOCIATES

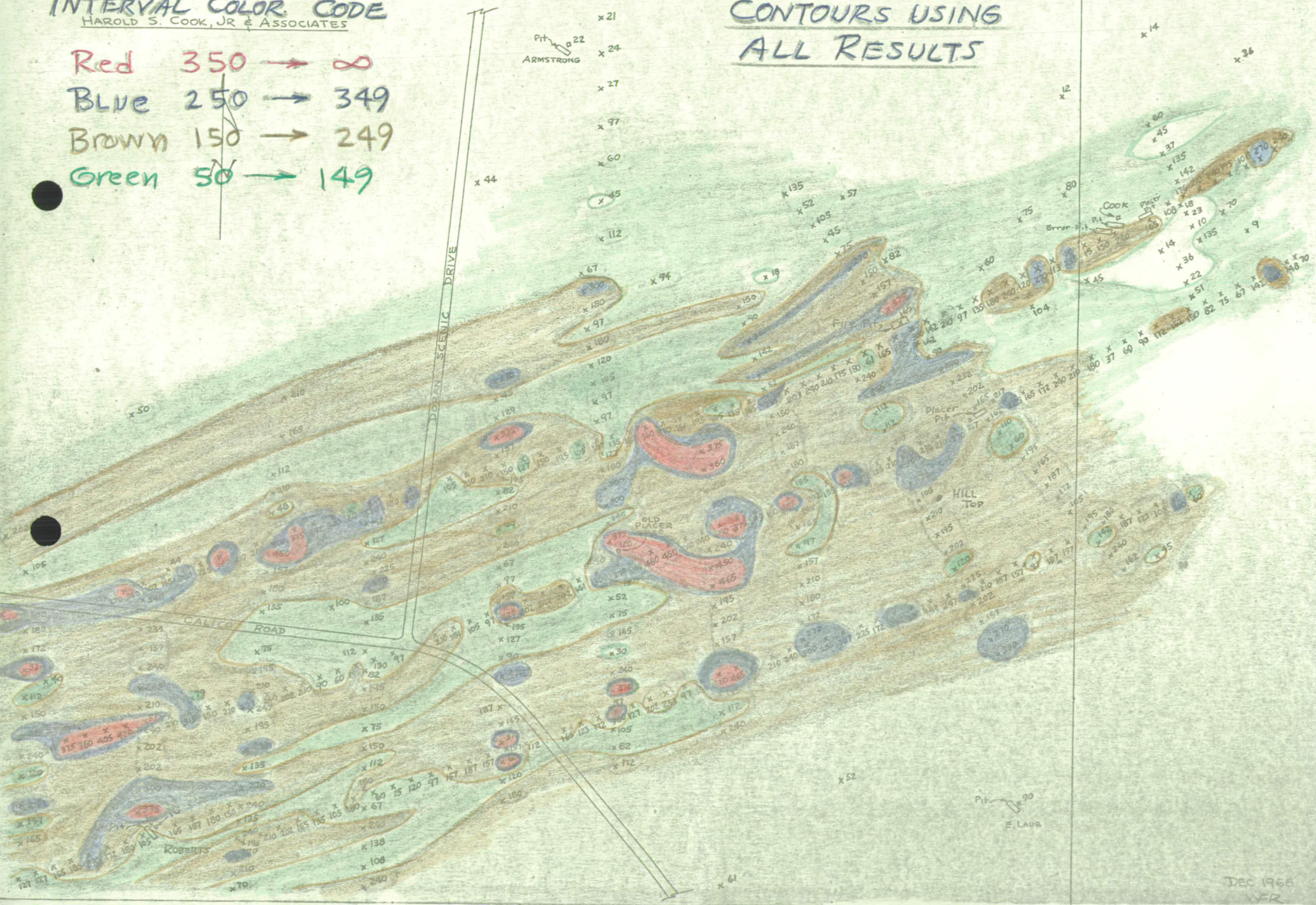
Red 350 → ∞

Blue 250 → 349

Brown 150 → 249

Green 50 → 149

CONTOURS USING ALL RESULTS



DEC 1966

GEO MERQ YERMO QUAD T 10 N, R 1 E PLATE II B

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

INTERVAL COLOR CODE

HAROLD S. COOK, JR & ASSOCIATES

RED 300 → ∞

BLUE 200 → 299

Brown 100 → 199

Green 0 - 99

CONTOURS USING ALL RESULTS TAKEN

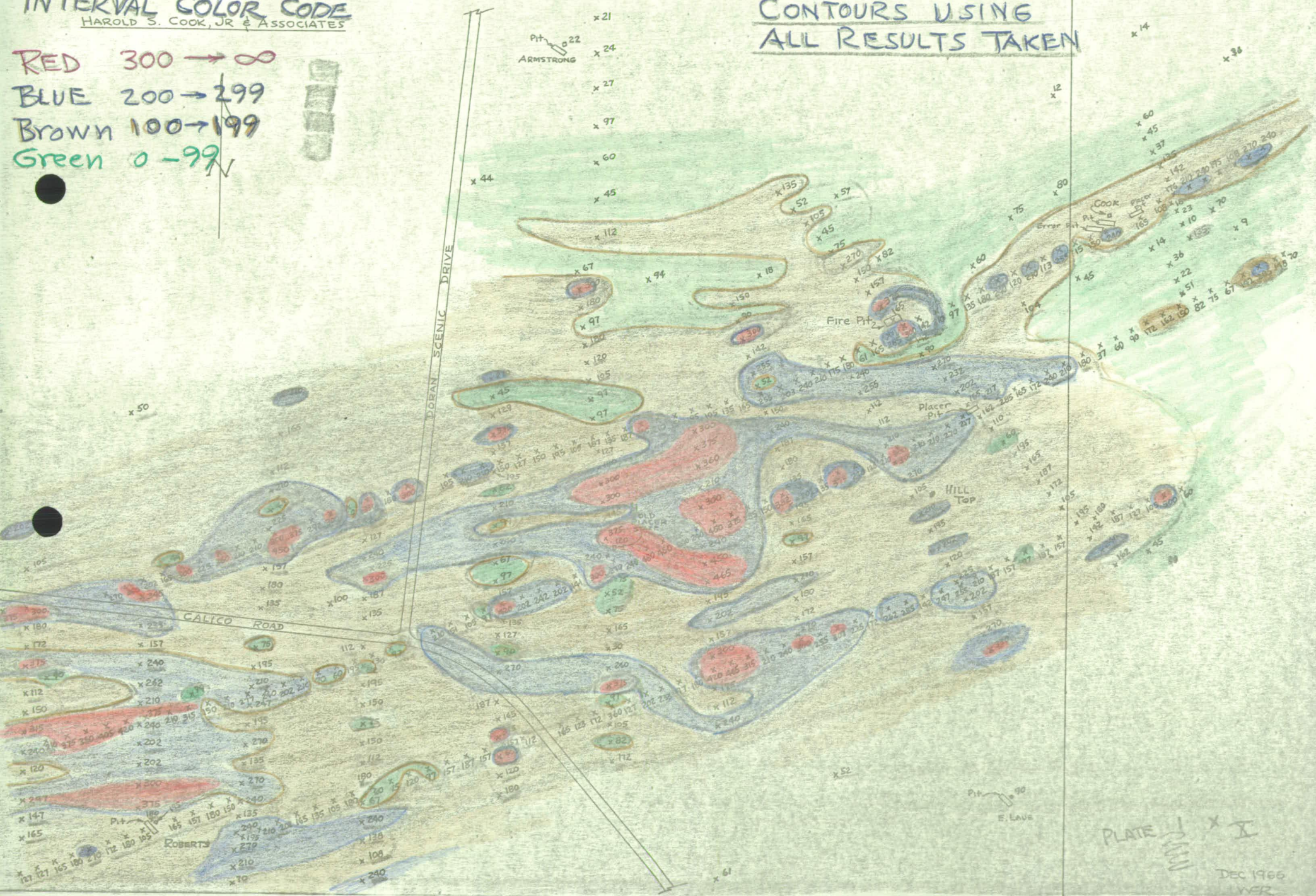


PLATE I X V

DEC 1966

GEO MERQ YERMO QUAD T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

III A

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

HAROLD S. COOK, JR & ASSOCIATES

CONTOURS USING APRIL THRU SEPT 1966 RESULTS

INTERVAL COLOR CODE

350 → ∞ RED

250 - 349 BLUE

150 - 249 BROWN

50 - 149 GREEN

DEC 1966
WFR

GEO MERQ YERMO QUAD T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

III B

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

INTERVAL

HAROLD S. COOK, JR & ASSOCIATES

COLOR CODE

RED 300 → ∞

BLUE 200 → 299

Brown 100 → 199

Green 0 → 99

N

CONTOURS USING APRIL THRU SEPT 1966 RESULTS

DEC 1966
WER

GEO MERQ YERMO QUAD T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

IV A

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

HAROLD S. COOK, JR & ASSOCIATES

ALL WINTER VALUES INCREASED BY 3 TIMES

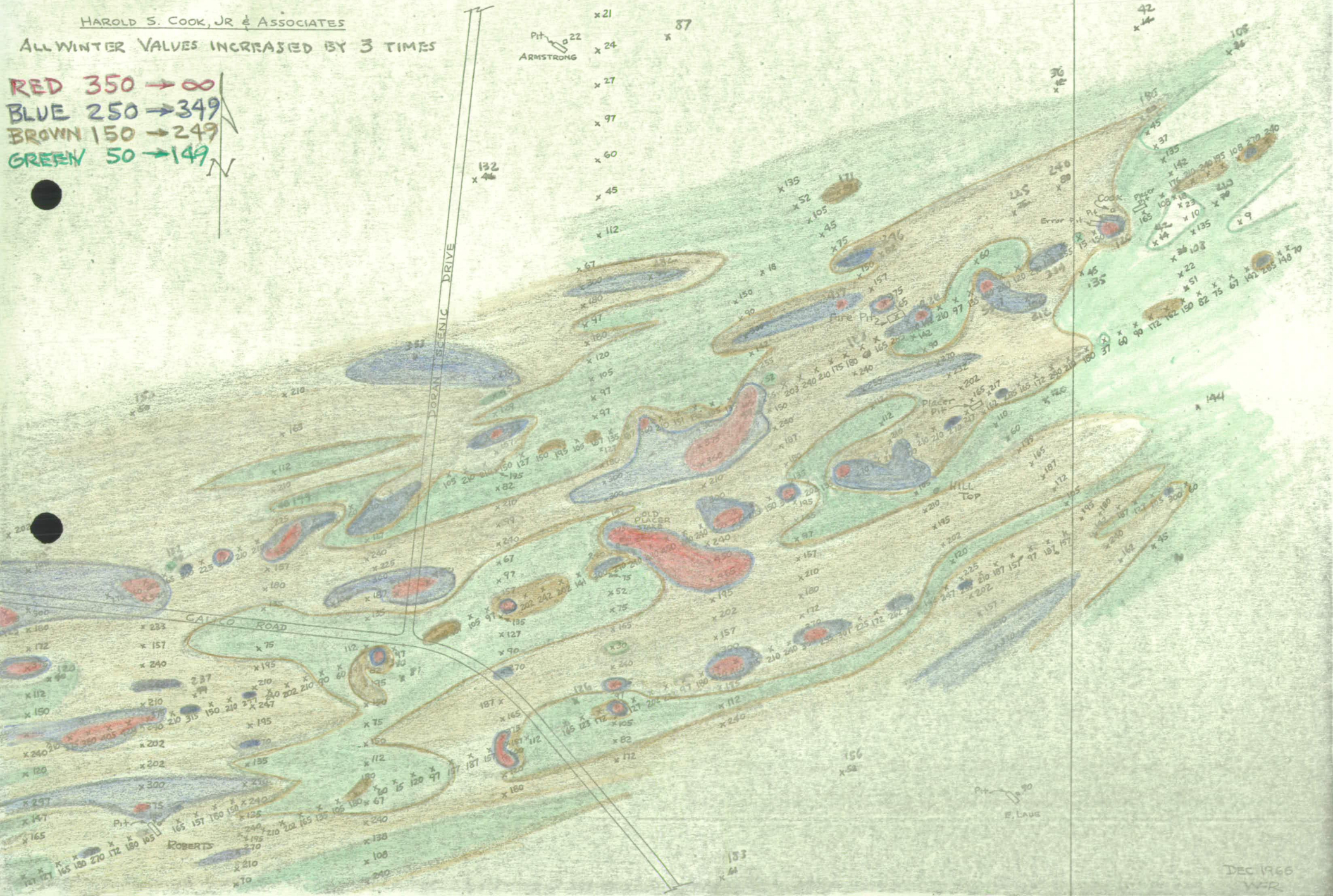
RED 350 → ∞

BLUE 250 → 349

BROWN 150 → 249

GREEN 50 → 149

N



DEC 1966
WFR

GEO MERQ YERMO QUAD T 10 N, R 1 E

ALL TEST VALUES IN PARTS PER MILLION OF MERCURY (PPM OF Hg.)

SECTION 22 23

IV B

SCALE 1:1,000

MILE 0 .05 .10 .15 .20

FEET 0 100 200 300 400 500 1000

HAROLD S. COOK, JR & ASSOCIATES

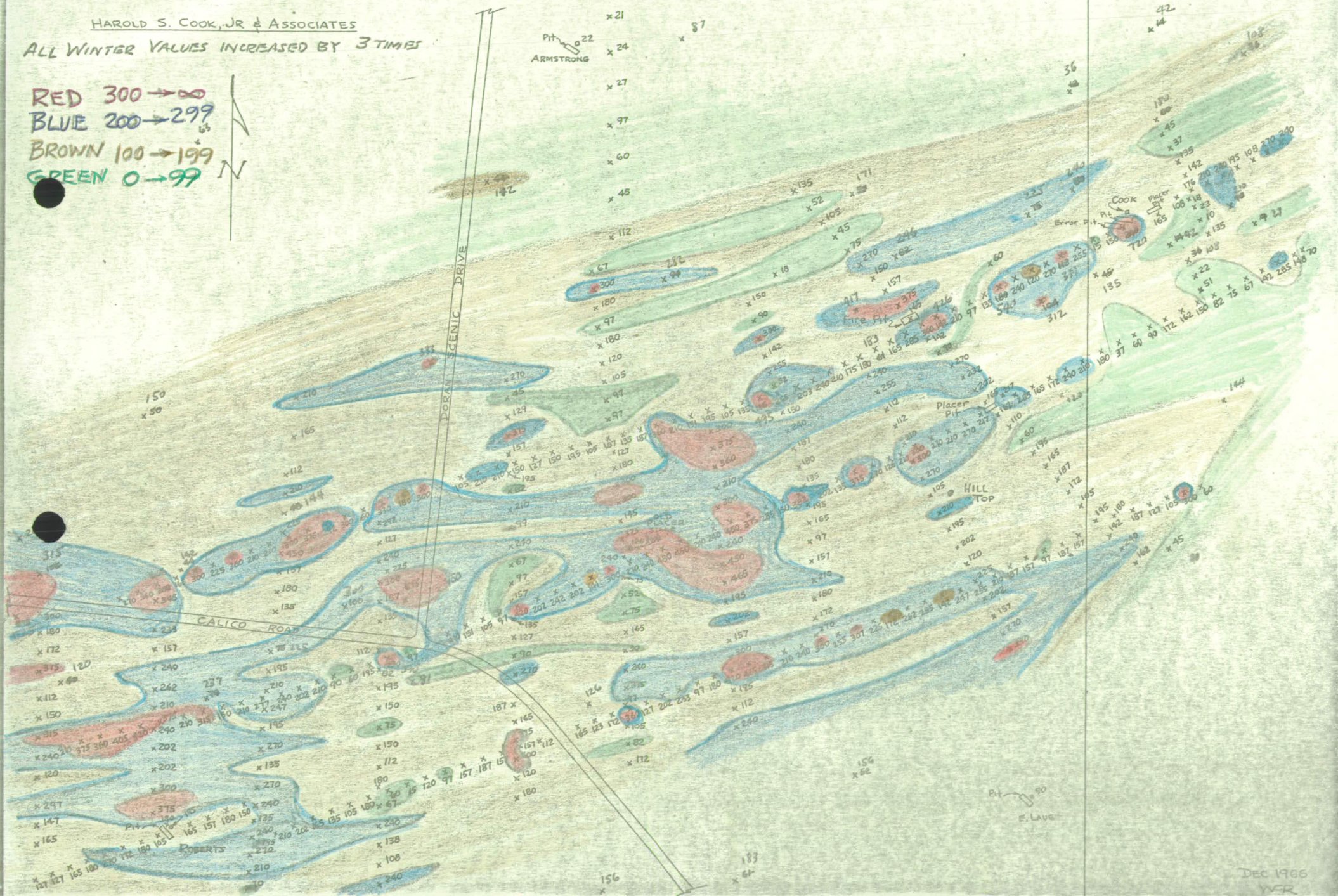
ALL WINTER VALUES INCREASED BY 3 TIMES

RED 300 → ∞

BLUE 200 → 299

BROWN 100 → 199

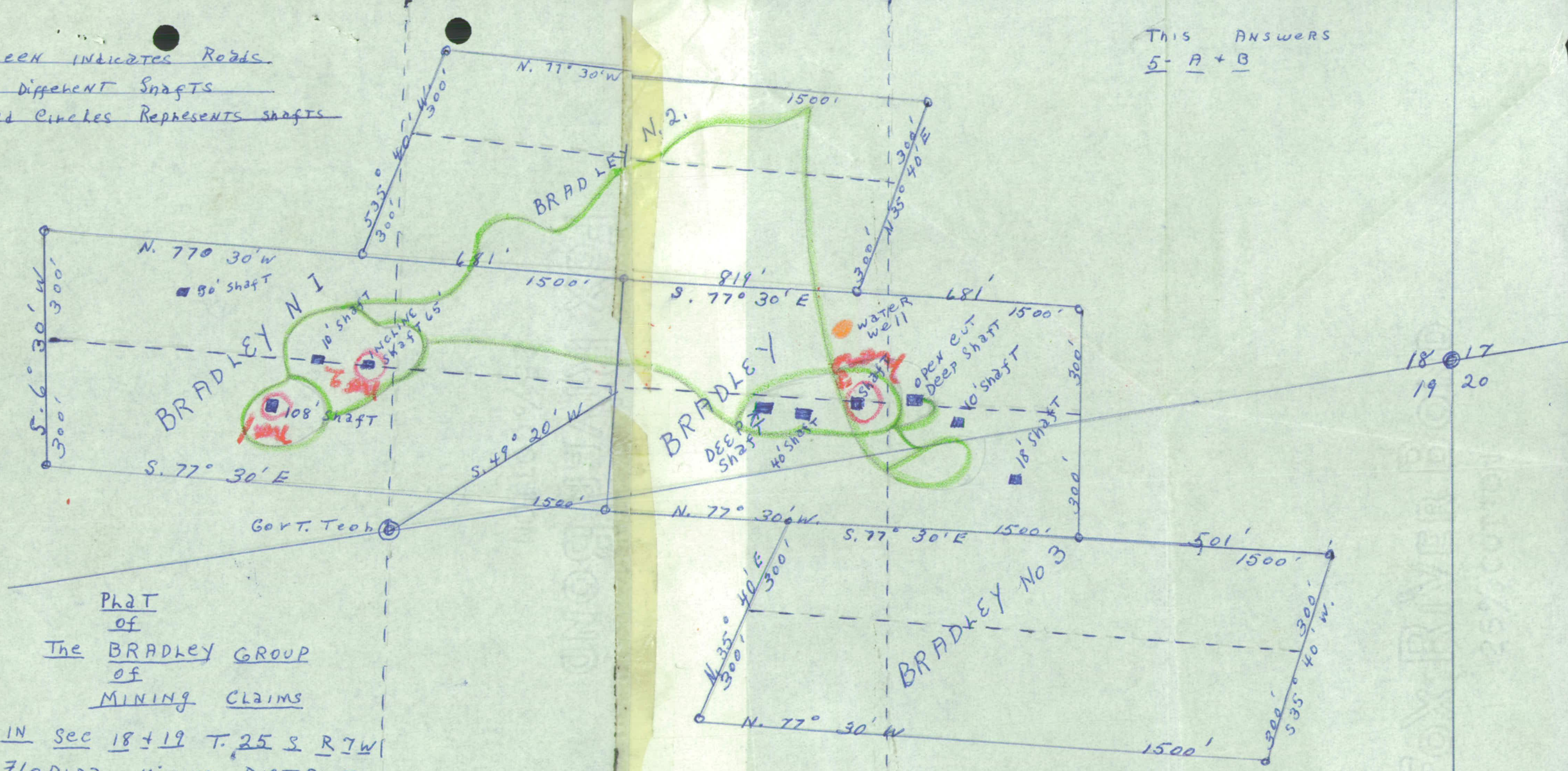
GREEN 0 → 99



DEC 1966
WER

Green indicates Roads
To Different Shafts
Red Circles Represents shafts

This Answers
5- A + B



Phat
of
The BRADLEY GROUP
of
MINING CLAIMS

IN Sec 18 + 19 T. 25 S R 7W
FLORIDA MINING DISTRICT
LUNA COUNTY NEW MEXICO

SCALE 1=300 C. B. Morgan U.S.M.S.
MAG VAR 13° 10' E JULY 1830