NOTE: Use a separate form for each request.

DESCRIPTION OF RECORD(S) OR INFORMATION REQUESTED

Docket # D.M.E.A. 2477

REMARKS

NATURE OF SERVICE

☐ FURNISH COPY OF RECORD(S) ONLY ☐ PERMANENT WITHDRAWAL ☐ LOAN OF RECORD(S) ☐ OTHER *(Specify)*

RECORD GROUP NO.	ACCESSION NO.	FRC BOX NO. OR RECORDS CENTER LOCATION NO. *(If known)*
	64A709	32 14/52:15.3

TO

General Services Administration
Federal Records Center NARS

(City) *(State)* *(Zip Code)*

NOTE: In Washington, D.C. area send to STOP 386

FOR RECORDS CENTER USE ONLY

☐ RECORDS NOT IN CENTER CUSTODY ☐ RECORDS DESTROYED

☐ WRONG BOX NUMBER — PLEASE RECHECK

☐ ADDITIONAL INFORMATION REQUIRED TO IDENTIFY RECORDS REQUESTED

☐ MISSING *(Neither record(s), information nor charge card found in container(s) specified)*

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OUT TO *(Name, agency and date)*:

REMARKS Special Pick Up 10/20/75 8:00

OCT 15 3 25 PM '75 RECEIVED GSA WASH. D.C. 20409

DATE	SERVICE	TIME REQUIRED	SEARCHER'S INITIALS
10/17			KB

FOR USE OF REQUESTER

NAME OF REQUESTER	TELEPHONE NO.	DATE
Mrs Wiegand	860-6681	

NAME AND ADDRESS OF AGENCY *(Include building, room no. and Zip Code)*

U.S. ~~Geologic~~ Geological Survey
953 Natl Ctr

(In Washington, D.C. area also include STOP number)

RECEIPT OF RECORDS

Requester please sign, date and return this form, for file item(s) listed above, *ONLY* if the block to right has been checked by the Records Center. ☐

SIGNATURE	DATE

OPTIONAL FORM 11
REVISED FEBRUARY 1971
GENERAL SERVICES ADMINISTRATION
FPMR (41CFR) 101 - 11.4
5011 - 104

REFERENCE REQUEST — FEDERAL RECORDS CENTERS

AGENCY SUSPENSE FILE COPY

NOTE FOR DOCKET DMEA 2477 - STOVALL, AL AND SONS

Entry on service card reads:

Region IV advises applicant in letter of 7/28/52 that his application has been transferred to the inactive files since no reply has been received from their previous letter of 4/17/52 requesting additional information be submitted.

DMEA-2477

ARIZONA TESTING LABORATORIES
PHONE 3-6272 817 WEST MADISON ST. P. O. BOX 1888 · PHOENIX
Chemists . . . Engineers

March 1, 1952

Mr. Jack East
Regional Director
Bureau of Mines
Denver, Colorado

Dear Mr. East:

This is a letter of recommendation for Mr. Al Stovall of Phoenix.

The writer had charge of the strategic mineral stock pile in Phoenix for the Lawrence Warehouse Company during the last war. Our laboratory did all of the sampling and assaying for the stock pile in Phoenix, Parker, and Tucson during the war. In this connection, of course, we learned a lot about manganese mining and those in this business in the southwest.

Mr. Al Stovall was by far the largest shipper of manganese ore to the Phoenix stock pile. He was the most energetic manganese miner and used the most ingenuity in producing a grade of ore acceptable to the stock pile. Mr. Stovall is now active in the present effort to produce manganese.

We can recommend Mr. Stovall highly as one most likely to succeed in manganese production under the present program.

Yours very truly,

ARIZONA TESTING LABORATORIES

Claude E. Holcom

CEH:cp

20th
1932
1952
anniversary

CHEMICAL · RESEARCH · ASSAY · ORE TESTING · PHYSICAL TESTING

SWECO

SOUTHWESTERN ENGINEERING COMPANY

Engineers - Manufacturers - Constructors

ROBERT P. MILLER
PRESIDENT-GENERAL MANAGER
R. J. KINCAID
SECRETARY-TREASURER
C. D. COULTER
VICE PRESIDENT-PRODUCTION

MAIN OFFICE AND PLANT
4800 SANTA FE AVENUE
POST OFFICE BOX 15264, VERNON STATION
LOS ANGELES 58, CALIFORNIA

TELEPHONE
JEFFERSON 7131
CABLE ADDRESS
"SWECOLA"

December 17, 1951

In reply refer to:
File: 13479
Job: P-5636

Mr. Al Stovall
1644 Palmcroft Drive
Phoenix, Arizona

Dear Mr. Stovall:

Our best results to date on your Doyle manganese ore (Provo sample) were obtained in test #5, as follows:

	% Wt.	% Mn	% SiO_2	% Al_2O_3	% CaO	% Distribution of Mn
Assayed head		20.70	38.10	7.11	1.90	
Calculated head	100.00	19.41				100.00
Concentrate	39.45	41.35	8.76	2.32		84.03
Middling #1	4.85)	5.43				1.92
Middling #2	2.00)					
Middling #3	8.50)	16.43				8.99
Middling #4	2.10)					
Tailing	43.10	2.28				5.06
Ratio of concentration		2.54:1				

As a check on the above concentrate assays, a portion of it was "nodulized" at 1900° F. for ten minutes, which resulted in a weight loss of 12.45%. This product assayed 45.73% Mn, 11.12% SiO_2, and 2.68% Al_2O_3. Calculated from the weight loss, this product should have assayed 47.2 % Mn, 10.0 % SiO_2, and 2.65 % Al_2O_3. We consider that actual and calculated assays on this product compare reasonably close.

All of the above reported assays were made by the local analytical firm of Kennard & Drake. As a further check on the raw concentrate a sample was submitted to Smith Emery Company who reported 42.20 % Mn and 7.80 % SiO_2.

Our test #2 on your Love manganese ore sample gave the following results:

	% Wt.	%Mn	% SiO_2	% Al_2O_3	% CaO	%Distribution of Mn
Assayed head		22.78	35.64	6.68	0.85	
Calculated head	100.00	20.50				100.00
Concentrate	39.60	43.10	5.15	1.86		83.24
Middling #1	4.70)	8.40				2.64
Middling #2	1.75)					
Middling #3	5.15)	12.61				3.97
Middling #4	1.30)					
Tailing	47.50	4.38				10.15

Ratio of concentration 2.53:1.

The above assays were made by Kennard & Drake, who appear to make every effort to obtain accurate determinations. However, it will be noted that there is a considerable discrepancy in the case of the test on Love ore between assayed and calculated heads. This discrepancy may be due to the manganese determination of the assayed head being too high, or to one or more of the test products being too low. We have submitted a duplicate head sample to Smith Emery Company for manganese only as a check on the Kennard & Drake determination.

The general test procedure in both of the above tests was to grind the ore to about 65 mesh (an exact sizing test has not been made yet), then produce a rougher flotation concentrate, clean twice, regrind, and clean twice more. All reagents are added for rougher flotation, no additional reagents being used for cleaning. The procedure and reagent combination employed is designated as the "Lord process".

As you will note from the above results, we have produced concentrates from both your Doyle ore (Provo sample) and Love ore which assay above 40% manganese and less than 15% of silica plus alumina, with reasonably satisfactory manganese recovery. Considerable additional testing should be conducted on both ores if you are planning a mill installation, but as your present purpose is understood to be only to show that the ores can be beneficiated, the limited amount of testing conducted probably will be sufficient. Therefore, as soon as the above mentioned discrepancies in assay results can be straightened out, we will render our formal reports.

In test #2 and #4 on your Doyle ore, we also "nodulized" the concentrates for the purpose of checking silica and alumina assays. For some reason not as yet determined, the "nodulized" concentrates assayed higher in silica than the assay of the raw concentrate and weight loss would indicate. The raw and nodulized concentrates were re-assayed several times with no appreciable change in silica content, although the alumina was found to be lower in one case. These analytical difficulties have caused delay in reporting to you.

Very truly yours,

SOUTHWESTERN ENGINEERING COMPANY

Robert Lord

Robert Lord

RL/t

Air Mail

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2477
Metal or Mineral
Date Received 4-7-52
Amount $
Participation (Government %)

Al Stovall and Sons, Manganese
1644 Palmcroft Drive
Phoenix, Arizona

Name and address of applicant

Date March 2, 1952

If you have already filed MF-100, give date filed March 2, 1952, type of assistance requested exploration loan,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. LastResort Claim, in Sec.16, T.10N. R.14W, G&SRBM

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application. see attached lease

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.
   Sec. 36, T.10 No. R. 14 W., G&SRB&M.
   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract. no liens or claims

RECEIVED
APR 7 1952

2. (*a*) What metals or minerals do you expect to find? manganese

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

16—64067-2

surface vein, open quarry- See W.D. McMillan 9,000 tons already mined

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it. 60 days - operating now

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.
See photographs attached instead of map; See W. D. McMillan, your office, for detailed measurements.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition. small camp

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. none

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you compressors, pickup, bulldozer, jeep, trucks, drilling tools, power shovel, small camp, with rental.
   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each. Superintendent & executive $500. per mo. miners 1.65 per hour; bulldozer and shovel operators $2.00 per hour

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.
~~[illegible]~~ see work schedule

10. (*a*) How much are you prepared to invest in the proposed project? $8,266.00

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)? yes It is my understanding that I am to advance all funds and be reimbursed at regular intervals during this work.

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Al Stovall and Sons Manganese
(Name of company)

By Al Stovall
(Signature of authorized official)

March 2, 1962
(Date)

owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMSA-2471

Date received 4-7-52

Al Stovall and Sons, Manganese
1844 Palmcroft Drive
Phoenix, Arizona

Name and address of applicant

Date March 2, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Manganese
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry(ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts. Manganese quarry
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly). open cut, 100 ft. wide by 125 ft. long x 35 ft. deep
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity. No pumping problems.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 26 miles North of Wenden, Arizona
   (*b*) Mining district. Santa Maria Mining District
   (*c*) Township, Section, Range. Section 36, Township 10 North, Range 14 West, Gila Salt River Base and Meridian.
   (*d*) County, State. Yuma County, Arizona
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. Property is now in operation by applicant.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ■ Contractor.
5. Number of years in production six months
   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project. see letter from Arizona Testing Laboratories attached hereto.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation. new operation
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. See attached metallurgical report as to beneficiation from Southwestern Engineering company, Los Angeles, Cal.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	Mn.			2,000Tons	15,000 Tons
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	Mn 19percent			0	0

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. none

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. Mr. W.D. M[illegible]illan, mining engineer of your [illegible]ice, has recently examined this property and your office has his findings. Please get this information direct from him and Mr. Jack West who has also recently visited the

property. Many competent mining engineers have estimated well over 1000000 positive tons, with a possibility of over ten times that.

(b) If deposit is other than placer: see attached photograph

See assay sheets attached

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. please see Mr. W. D. McMillan of your office

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows: see W.D. McMillan or Mr. Jack East of your office.

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	100,000 Tons	19 percent Mn			
Indicated (probable)	1,000,000 Tons	19 percent Mn			

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

Bill Williams River one mile North.

15. Power:

State amount of power used, rate per hour, and source thereof. Diesel and gas

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. 10 men

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. Compressors, bulldozer, jeep, trucks, drilling tools, power shovel, small camp.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Al Stovall and Sons, Manganese
(Name of company)

By Al Stovall
(Signature of authorized official)

March 2, 1952
(Date)

owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

I propose with this exploration loan to do work that should develope another positive 200,000 tons of ore on the Last Resort Claim.

I will strip waste away from the hanging wall in an area 75 feet by 700 feet by 50 feet which will involve approximately 97,222 yards at .25 per yard of $24,305. I propose to make two open cuts 75 feet wide by 100 feet long across the vein and 35 feet deep in 2 places. This will undoubtedly prove great tonnage.

75'x700&x50' = 97,222 yds. at $.25 per yd. ---------	$24,305.00
2 cuts 75'x35'x100' = 19,444 yds. at $.25 per yd. ------	4,861.00
Total rockwork	$29,166.00
Assaying and sampling	1,200.00
2,000 - 8& holes, drilling contract at $.10 per ft.	1,600.00
Powder and fuses	1,300.00
Grand total	$33,266.00

I am now working and wish to start this work at once. I understand I am to advance this money and be reimbussed by the government at regular intervals as work progresses. I should complete this work in 60 days.

Al Stowell

ARIZONA TESTING LABORATORIES
PHONE 3-6272 817 WEST MADISON ST. P. O. BOX 1888 · PHOENIX
Chemists . . . Engineers

For: Mr. Al Stovall

Date: September 19, 1951

Lab. No.: 83560

Sample: Ore

Marked: 5' Vein - Black Band

Received:

Submitted by: Same

Report of Laboratory Tests

Manganese (Mn)	18.48%
Iron (Fe)	2.80%
Silica (SiO_2)	50.35%
Alumnia (Al_2O_3)	1.30%
Phosphorus (P)	0.08%
Copper (Cu)	None
Lead (Pb)	None
Zinc (Zn)	None

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude L. McLean

CHEMICAL TESTING • PHYSICAL TESTING

ATL
ARIZONA TESTING LABORATORIES
PHONE 3-6272 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX
Chemists . . . Engineers

For: Mr. Al Stoval

Date: September 19, 1951

Lab. No.: 83562

Sample: Ore

Marked: General - Last Sample

Received:

Submitted by: Same

Report of Laboratory Tests

Manganese (Mn)	18.81%
Iron (Fe)	3.36%
Silica (SiO_2)	58.55%
Alumnia (Al_2O_3)	1.35%
Phosphorus (P)	0.08%
Copper (Cu)	None
Lead (Pb)	None
Zinc (Zn)	None

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1951
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

CHEMICAL • PHYSICAL • RESEARCH • ASSAY • ORE TESTING • PHYSICAL TESTING

MINING LEASE

THIS LEASE made this 15th day of September, 1951, by and between ROBERT N. DOYLE, LAWRENCE SMITH, HARRISON DOYLE and L.A. APLINGTON, hereinafter called Lessors, and AL STOVALL, hereinafter called Lessee,

W I T N E S S E T H:

That said Lessors, for and in consideration of the royalties hereinafter reserved in the covenants and agreements hereinafter set forth by the said Lessee to be kept and performed, hereby grant, demise and let to the said Lessee all of the following described mines and mining property situated in the Santa Maria Mining District in Yuma County, State of Arizona, to-wit:

> The MANGANESE KING, the LAST RESORT, and the BLACK BAND, (it being understood that the Black Band is a State lease and subject to a roylaty payment to the State, in addition to the royalties herein provided to be paid), in Sec. 36, T 10 N, R 14 W. G&SRB&M,

together with all appurtenances thereto.

TO HAVE AND TO HOLD unto the said Lessee for the term of ten years from date hereof, unless sooner forfeited through the violation of any covenant or agreement herein contained on the part of said Lessee to be performed, or terminated under any provision hereof. In consideration of such demise said Lessee covenants and agrees with the said Lessors as follows, to-wit:

1. To pay to said Lessors a ten (10%) per cent royalty based on the net value of the ore mined under this lease, to be determined at the shipping destination, stock pile, government depot, or smelter, according to government assay thereof, less cost of trucking to railroad, loading, and railroad freight charges. Lessee shall pay Lessors $250.00 on or before November 1, 1951, to be credited on said royalties.

2. to, on or before November 1, 1951, enter upon said mine or premises and work the same in proper mining fashion and in such manner as may be necessary to good and economical mining, having due regard to the development and preservation of said mining claims as a workable mine and existing market conditions, and to mine not less than Five Hundred (500) tons of

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

manganese ore monthly, or to pay Lessors the sum of Five Hundred ($00.00) Dollars permonth, to be applied as payment on royalties.

3. To timber said mine at all points where proper in accordance with good mining, and to repair all old timber whenever it may become necessary.

4. To allow said Lessors and their agents from time to time to enter said mine for purposes of inspections.

5. To occupy and hold all cross or parallel lodes, spurs or mineral deposits of any kind which may be discovered by Lessee or any person employed by or under him by working within or from the demised ground, as the property of said Lessors, with privileges to said Lessee of working the same as a part of said demised premises.

6. To deliver to said Lessors the premises in good order and condition, upon the forfeiture or earlier termination of this lease.

7. Upon violation by Lessee of any covenant or agreement herein contained Lessors, at their option, may terminate this lease and Lessors or their agents may thereupon, after written demand of possession, enter upon said premises and dispossess all persons occupying same.

8. Lessee agrees to take out and keep in effect during his operations hereunder Industrial Commission insurance, and to promptly pay all premiums and charges therefor.

9. Lessee agrees to keep said leased premises free and clear of any liens arising by reason of his operations on said premises during the terms of this lease.

10. Lessors agree to pay before delinquent State, County and District taxes, if any, which may be assessed against said mining claims, and Lessee agrees to pay before delinquent any and all taxes assessed against any machinery, equipment or fixtures placed on said premises by Lessee.

IT IS AGREED between the parties hereto that upon the expiration or termination of this Lease, Lessee shall have the right to remove any and all machinery, equipment and fixtures from said premises which have been placed thereon by him.

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

IT IS FURTHER UNDERSTOOD AND AGREED between the parties that Lessee shall have the right to terminate this Lease at any time by giving Lessors sixty days prior written notice thereof.

IT IS FURTHER UNDERSTOOD AND AGREED between the parties hereto that Leasee shall have the right to assign this Lease or sublease said premises or any part thereof.

Each and every agreement and covenant herein contained shall extend to and be binding upon the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, said parties have hereunto set their hands the day and year first above written.

Robert N. Doyle (signed)

Lawrence V. Smith by Robert N. Doyle
Attorney in fact(signed)

Harrison Doyle (signed)

L.A. Aplington (signed)
LESSORS

Al Stovall (signed)
LESSEE

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

STATE OF CALIFORNIA)
County of Los Angeles) ss.

On this 17th day of September, 1951, beforeme, the undersigned officer, personally appeared ROBERT N. DOYLE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Roy A. Mac Millan (signed)
Notary Public

My comm. expires: 6/17/53

STATE OF CALIFORNIA)
County of Los Angeles) ss

On this 17th day of September, 1951, before me, the undersigned officer, personally appeared LAWRENCE SMITH, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Roy A. Mac Millan (signed)
Notary Public

My commission expires: 6/17/53

STATE OF CALIFORNIA)
County of Los Angeles) ss

On this 17th day of September, 1951, before me, the undersigned officer, personally appeared HARRISON DOYLE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Roy A. Mac Millen (signed)

My comm. expires: 6/17/53

STATE OF ARIZONA)
County of Yuma) ss

On this 15th day of September, 1951, before me, the undersigned officer, personally appeared L.A. ARLINGTON, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

E. M. KUCHN (signed)
Notary Public

My comm. expires: June 9, 1952.

STATE OF ARIZONA)
County of Yuma) ss

On this 15th day of September, 1951, before me, the undersigned officer, personally appeared AL STOVALL, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

E. M. KUCHN (signed)
Notary Public

My comm. expires: June 9, 1952.

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

January 9, 1952

AMENDMENT TO LEASE

Referring to the Mining Lease dated September 15, 1951 by and between ROBERT N. DOYLE, LAWRENCE V. SMITH, HARRISON DOYLE and L.A. APLINGTON lessors, and AL STOVALL, lessee.

It is mutually agreed that since AL. STOVALL, lessee, is working our mine, we as lessors will not cancel the above referred to lease without giving AL STOVALL, lessee, 60 days written notice in which to comply with all the terms of the lease.

IN WITNESS WHEREOF, said parties have hereunto set their hands the day and year first above written.

Robert N. Doyle (signed)
ROBERT N. DOYLE

Lawrence V. Smith (signed)
LAWRENCE V. SMITH

Harrison Doyle (signed)
HARRISON DOYLE

L.A. Aplington (signed)
L.A. APLINGTON

Al Stovall (signed)
AL STOVALL

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

STATE OF CALIFORNIA)
County of Los Angeles) ss

On this 10th day of January, 1952, before me, the undersigned officer, personally appeared ROBERT N. DOYLE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Roy A. Mac Millan (signed)
Notary Public

My commission expires: June 17, 1953

STATE OF CALIFORNIA (
County of Los Angeles) ss

On this 10th day of January, 1952, before me, the undersigned officer, personally appeared ROBERT N. DOYLE attorney in fact for LAWRENCE V. SMITH, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Roy A. Mac Millan (signed)
Notary Public

My commission expires: June 17, 1953

STATE OF CALIFORNIA)
County of Los Angeles) ss

On this 12th day of January, 1952, before me, the undersigned officer, personally appeared HARRISON DOYLE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

J.H. FATHERINGHAM (signed)
Notary Public

My commission expires: June 5, 1955

STATE OF ARIZONA)
County of Yuma) ss

On this 20th day of January, 1952, before me, the undersigned officer, personally appeared L.A. APLINGTON, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hhereunto set my hand and official seal.

Eugene T. Wesolowski (signed)
Notary Public

My commission expires: 5/9/53

STATE OF ARIZONA)
County of Maricopa) SS

On this 9th day of January, 1952, before me, the undersigned officer, personally appeared AL STOVALL, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Eugene T. Wesolowski (signed)
Notary Public

My commission expires: 5/9/53

EUGENE T. WESOLOWSKI
ATTORNEY AT LAW
230 NORTH SECOND AVE.
PHOENIX, ARIZONA

Exposed cliff wall - dipping -- 45° EAST - looking north

GEOLOGICAL SURVEY

N. TIN HOWARD ST.
Spokane 3, Wash.

OFFICIAL BUSINESS

SPOKANE
MAR 7
730PM
1952
WASH.

1

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

NOTE: Use a separate form for each request.

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