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Around the Periphery: Support Industries for Mining and Minerals in the El Paso Area

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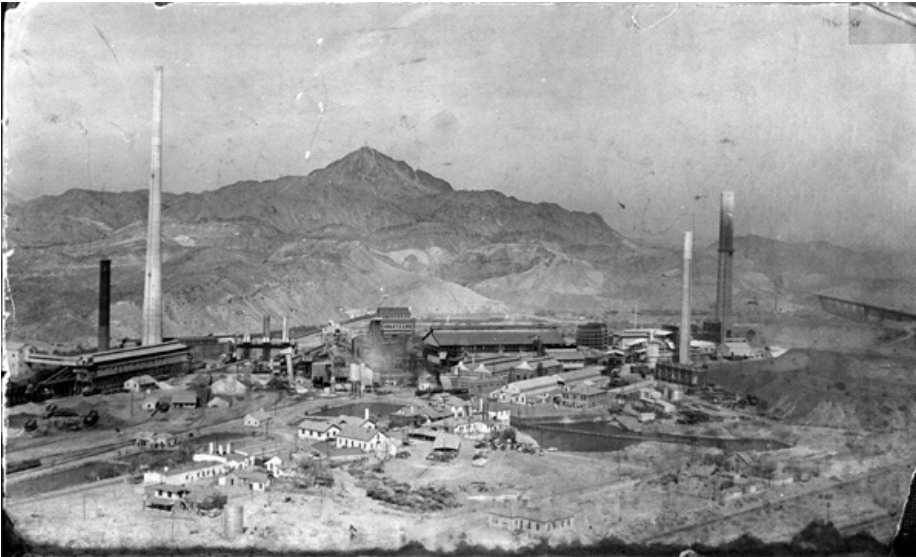
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Around the Periphery: Support Industries for Mining and Minerals in the El Paso Area



Critchett and Ferguson Assayers records, 1902 – 1918

O. A. Critchett

G. Ferguson

The Custom Assay Office

CRITCHETT & FERGUSON

Representatives for Ore Shippers

Assays and Analyses

Sampling Car Lots at Smelter

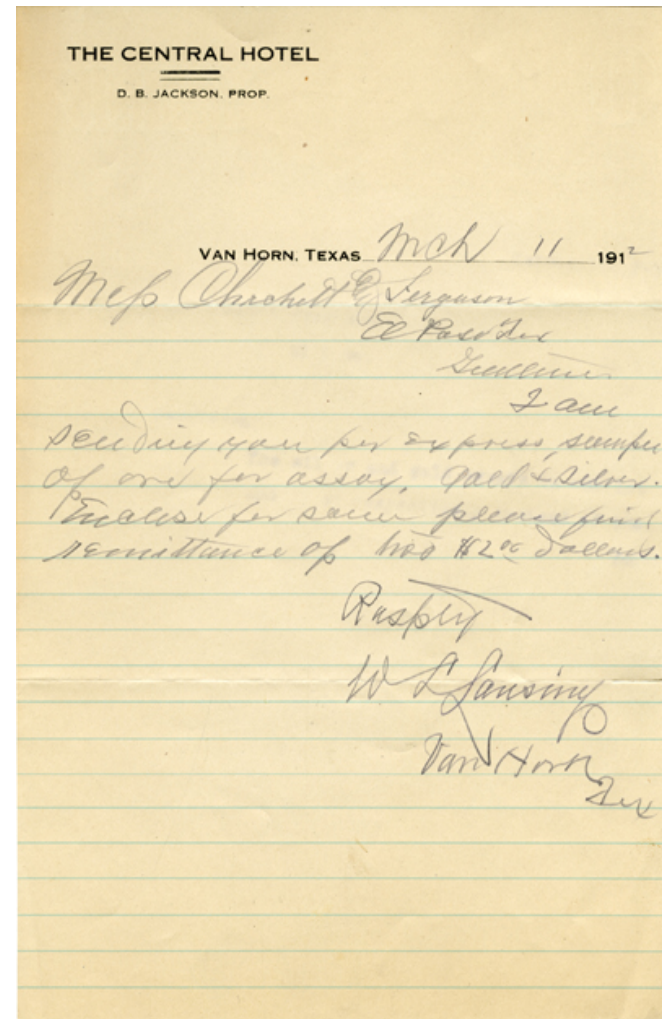
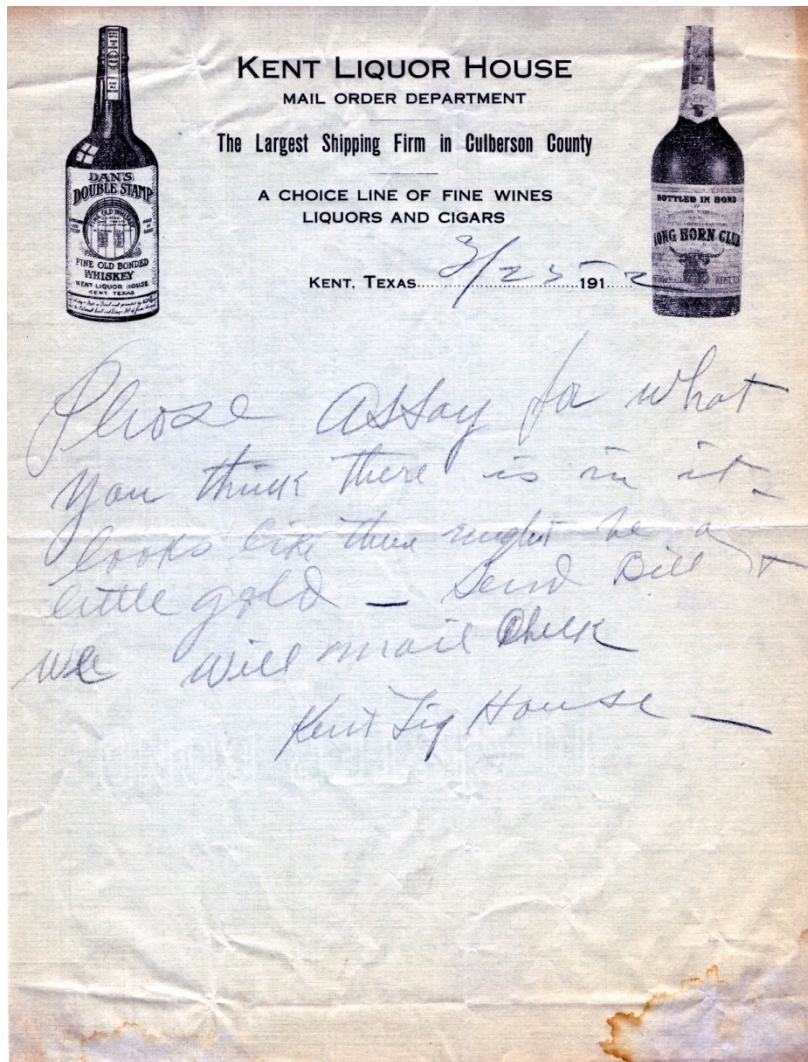
105 S. Santa Fe St.

P. O. Box 811

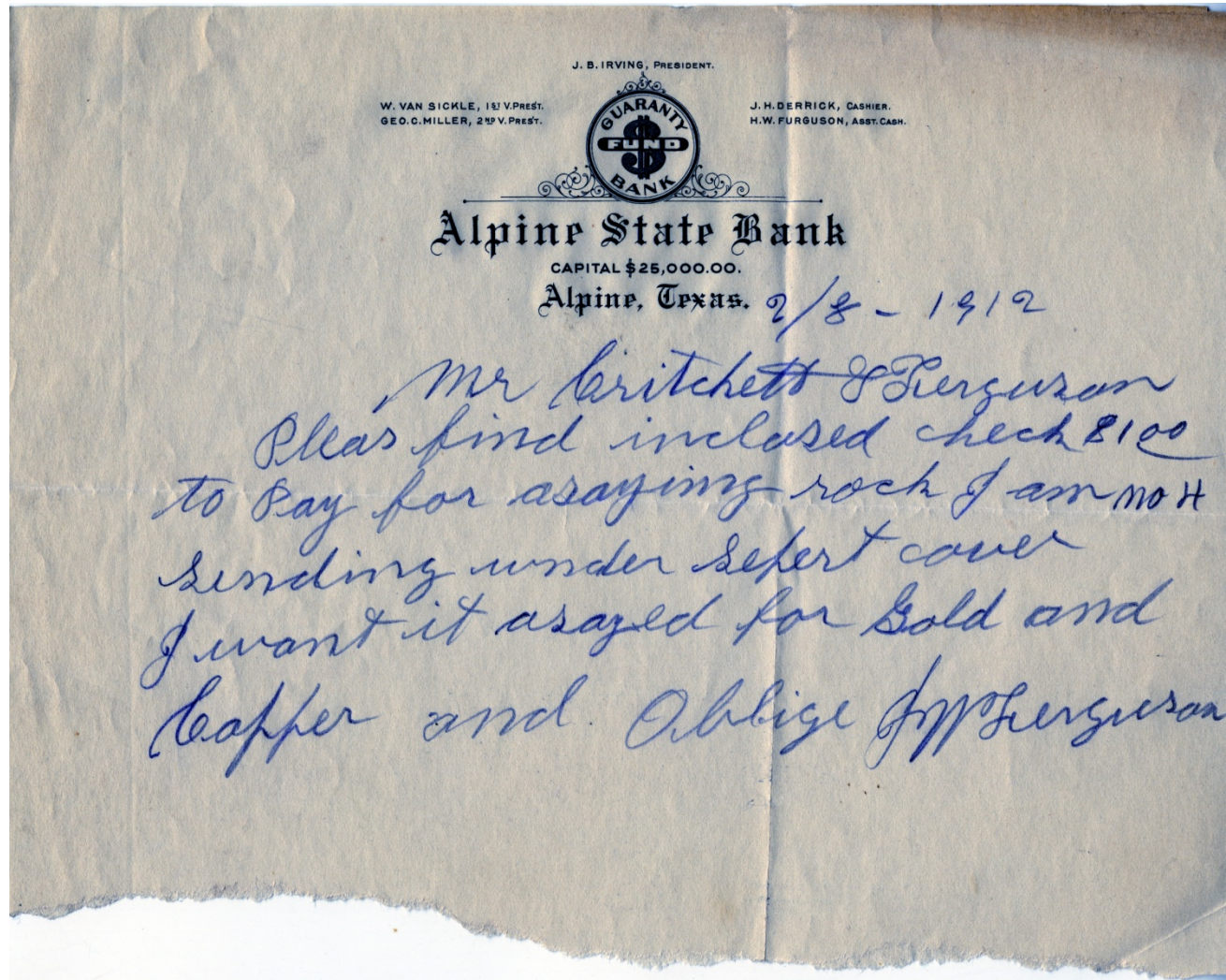
Phone Main 334



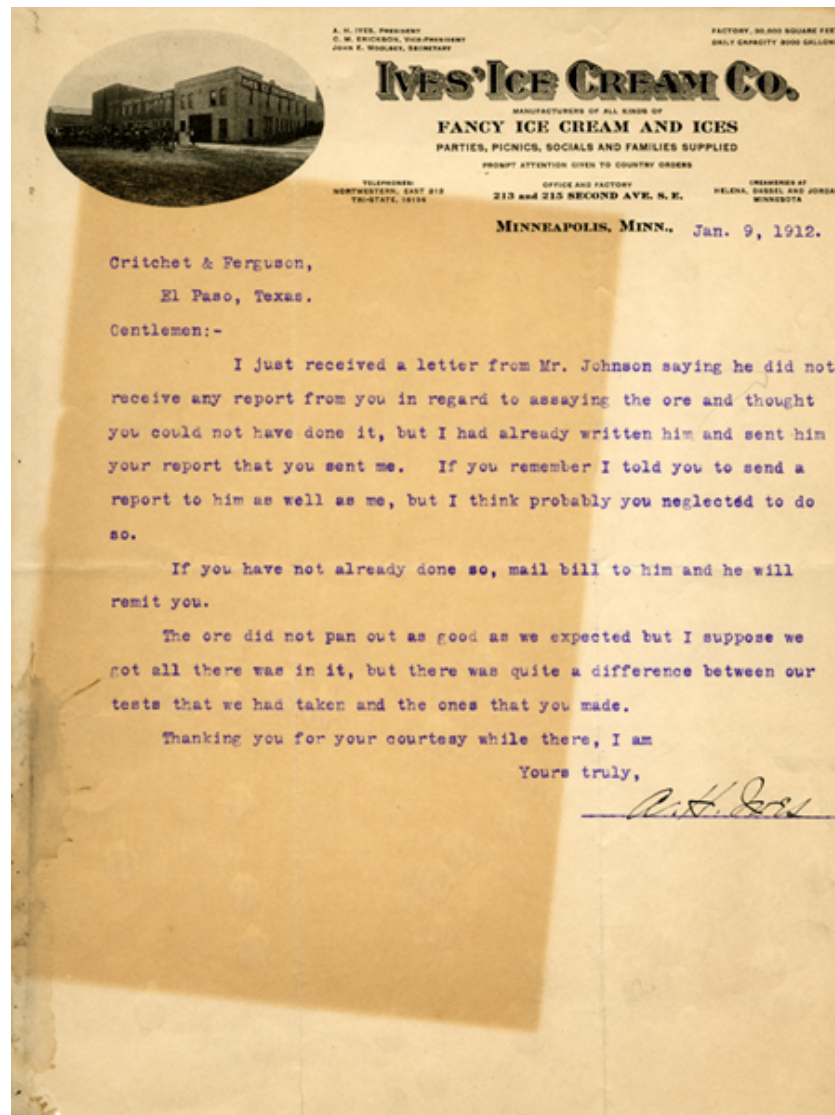
Critchett and Ferguson Assayers records, 1902 – 1918



Critchett and Ferguson Assayers records, 1902 – 1918



Critchett and Ferguson Assayers records, 1902 – 1918



Critchett and Ferguson Assayers records, 1902 – 1918

VAGOK

AMERICAN SMELTING & REFINING CO.

Critchett Ferguson PLANT *4/10* 191*1*

Dear Sir:

We are sending you to-day by express the following pulps. Please umpire for the element shown. Ag. should be determined by scorification, Au. by crucible, Cu. by electrolytic or iodide method and Pb. as described. Au. results should be carried three places beyond the decimal point when in ounces.

Yours very truly,

American Smelting & Refining Co.
Per. *[Signature]*

1902-10-10, Ppg. Co. S., A. Mont.

OUR LOT	SHIPPER'S LOT No.	ELEMENT
171	✓	Electrolytic Copper

Please make certificate in duplicate, sending original to this office and duplicate to *M. 76 Harding Mts 116 Critchett*

Zork Hardware Company records, 1887 – 1967



8 JOHN F. WORLEY & CO.'S

El Paso, Texas ADOLPH KRAKAUER
MAX KRAKAUER
G. ZORK
E. MOYE Chihuahua, Mex

**KRAKAUER,
ZORK & MOYE
HARDWARE**

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Powder and Ammunition, Agricultural Implements, Paints and Var-
nishes, Continental Mowers, Freeport and Ideal
Wind Mills, Atlas Powder

AGENTS FOR BAIN WAGONS

300 and 302 EL PASO ST. EL PASO, TEXAS

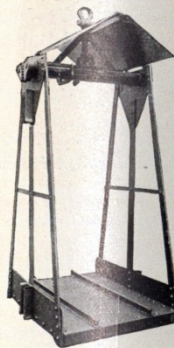
Zork Hardware Company records, 1887 – 1967

KRAKAUER, ZORK Y MOYE.

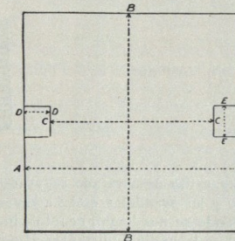
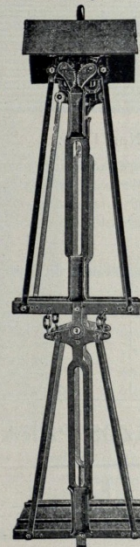
785

JAULAS DE SEGURIDAD PARA MINAS.

TIPO "STANDARD."



"COPPER QUEEN."



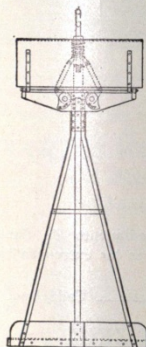
Como hacer pedidos.

Cuando se pidan jaulas ó sillas, se deberá tener cuidado en dar las dimensiones del tiro según se indica en el diagrama que precede.

Para jaulas, es esencial que se den todas las medidas, como sigue: De A á A, de B á B, de C á C, de D á D y de E á E.

Para sillas, solamente es necesario indicar las medidas ó dimensiones de A á A y de B á B.

TIPO "LEADVILLE."



Jaulas para Minas, "Standard."

Nuestras jaulas para minas Standard, están hechas enteramente de acero y fierro de Noruega. Son ligeras, rigidas y durables. Los tamaños que se indican en la Tabla que sigue abajo, pueden variarse unas cuantas pulgadas, sin costo extra. Cada jaula se construye adecuada al tiro.

Jaulas para Minas, tipo "Leadville."

Las jaulas tipo Leadville están construidas de fierro de Noruega, todas las juntas están hechas á máquina y anizadas juntas por medio de pernos torneados de acero. Todas las partes forjadas son de fuerza y duración extra, biendo sido previamente puestas á prueba é inspeccionadas cuidadosamente, ántes de armarlas. Nuestras jaulas tipo Leadville están caracterizadas por su larga duración bajo el más severo servicio y son de fácil reparación.

Zork Hardware Company records, 1887 – 1967

CARROS PARA MINERALES.

"STANDARD."

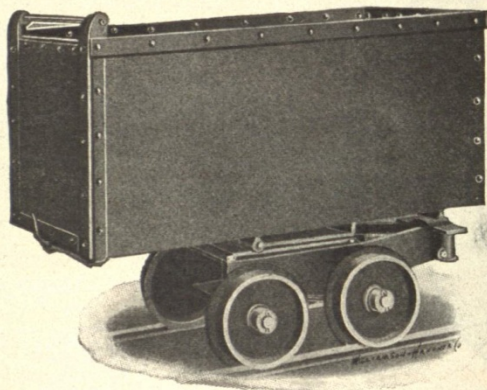


Fig. 2.

"LEADVILLE."

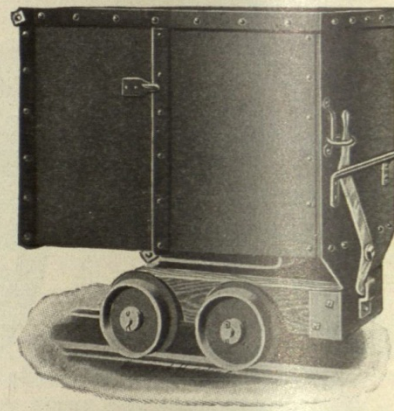
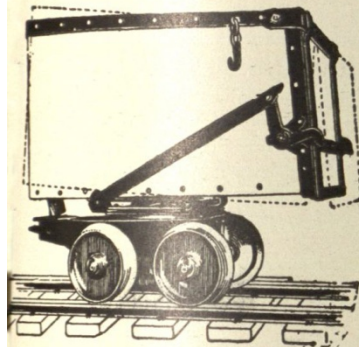


Fig. 3.

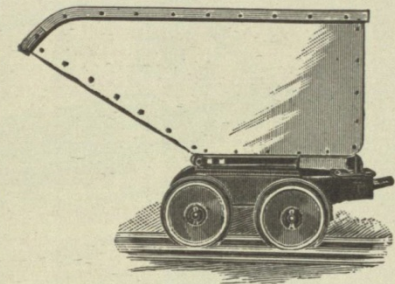
CARROS PARA MINERALES, MARCA TRUAX.

Ventajas.

La ausencia de varilla debajo del carro y al traves de la puerta, tambien la falta de esquinas cuadradas y partes de fierro fundido. Lados y fondo separados con abrazaderas de fierro angular. Fierro maleable para abrazar la armadura y evitar que se corten los pernos. Facilidad de operaci3n por la cual se ahorra tiempo al carretillero. Costo pequeno de reparaciones y nuestro n3mero de registro por medio del cual estamos en aptitud de arreglar un carro despu3s de un t3rmino de diez a3os.




Mejorado autom3tico
de Truax.



De vertedero
Standard de Truax.

Zork Company Hardware records, 1887 – 1967

CINCELES PARA PICAR PIEDRAS DE MOLINO.

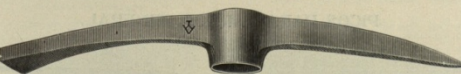


No. 1080.
Marca "Atha," de acero fundido sólido. Pulimento en aceite.

No. 1080—Peso..... 1½ á 3 lbs.
Por Kilo..... \$3 85

UNA CAJA CONTIENE MEDIO DOCENA.

PICOS PARA BATEAR.




No. 2.
Marca "Verona" Bateador forma V, de acero sólido. Ojo de azuela.

No. 2—Pesos..... 7 y 7½ lbs.
Por Docena..... \$53 50

UNA CAJA CONTIENE UNA DOCENA. PESO POR CAJA, 115 LIBRAS.

PICOS PARA FERROCARRILES.



No. 30. y Estilo del No. 7.
Picos para ferrocarriles, Ojo de azuela, de acero fundido sólido.

No. 30.....	5 á 6 lbs.	6 á 7 lbs.	7 á 8 lbs.
Peso por caja.....	146 lbs.	180 lbs.	220 lbs.
Por Docena.....	\$29 00	33 00	37 50


UNA CAJA CONTIENE DOS DOCENAS

Picos para ferrocarril, Marca "Verona", ojo de azuela, de acero fundido sólido.

No. 7—Peso..... 6 á 7 lbs.
Por Docena..... \$45 00

UNA CAJA CONTIENE UNA DOCENA. PESO POR CAJA, 94 LIBRAS.

PICOS PARA MINERALES.




No. 32.
Picos para minerales Ojo de azuela, de acero fundido sólido.

No. 32—Peso..... 6 á 7 lbs.
Por Docena..... \$33 00

UNA CAJA CONTIENE DOS DOCENAS. PESO POR CAJA, 170 LIBRAS.

LAMPARAS DE ACETILENO PARA MINAS.

INTERNAS PARA LA POLICIA.




"Regular."

Linternas Sordas para la policia, acharoladas n color moreno, de "Ojo de Toro." Arden con ceite de señales de ferrocarriles ó de esperma.

INTERNAS SORDAS PARA LA POLICIA "Regular"
de 3 pulgadas. Peso neto por docena,
14 libras..... Por Docena, \$.....

LAMPARAS PARA LA POLICIA.



No. 1.

Linternas Sordas para la policia acharoladas en color moreno, lente de 2½ pulgadas, fondo ajustable para removerse de la linterna.

No. 1—Linternas Sordas para la policia. Peso neto por docena, .. libras, Por Docena, \$....

Lámparas de Acetileno para Minas.

No hace humo, consume un quinto del oxigeno y produce solamente un sexto de cantidad de Bióxido de Carbono que las velas ó lámparas de aceite y petróleo, arde en aire liviano ó pesado é infecto que extingue otras lámparas ó velas. Permanecerá encendida en corrientes de aire tan fuertes en las que ninguna otra luz puede arder. Dura encendida continuamente por 5 horas con una carga de carburo. Se hace de latón acabado en color negro de cañon, Tiene llave para regular la llama ó apagarla. El mango está arreglado para formar un gancho, si se desea así la lámpara puede colgarse.


Diámetro de la cara, 2¼ pulgadas, tiene reflector parabólico y lente doble convexo, proyecta una luz igual á 100 bujías. Es una lámpara ideal para exploraciones sobre la cabeza.

Lámparas "Columbia" de acetileno para mineros..... Cada Una, \$12 00
Lámparas "Columbia" de acetileno, con Grampa de combinacion para aňazarla á bicicleta..... Cada Una, 14 00

FAROLES CON REFLECTOR.

"BEACON LIGHT."

Estas farolas pueden llenarse, encenderse, regularizarse y apagarse sin remover el globo. Arden bajo el principio de tiro de aire frío y extienden la luz en una vasta superficie.

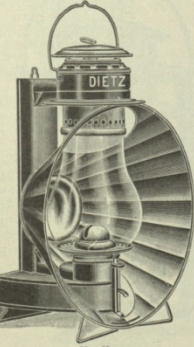


No. 30.

Admite el quemador No. 2, mecha de 1 pulgada, globo "Blizzard" reflector de hojalata brillante, de 12 pulgadas de diámetro y 7 pulgadas de profundidad, y en adición del Reflector, está provista de un lente de aumento. El depósito contendrá suficiente petróleo para arder durante 25 horas. Soporta los vientos más fuertes y es igualmente buena para usarse en el interior. 15¼ pulgadas de alto, y se refleja una luz igual á más de 50 bujías.

No. 30—Farolas tubulares "Beacon Light" acabadas en acharolado azul.
Peso neto de cada una, 3¼ libras..... Cada Una, \$10 00

TRES EN UNA CAJA. PESO POR CAJA, 29 LIBRAS.



No. 60.

El farol No. 60, admite el quemador No. 3; mecha de 1½ pulgadas, globo No. 2, tiene reflector de hojalata brillante, 16 pulgadas de diámetro y 10 pulgadas de profundidad, con reflector de vidrio azogado de 5 pulgadas en la espalda. El depósito contendrá suficiente petróleo para quemar durante 30 horas. 20½ pulgadas de alto y se refleja una luz igual á más de 100 bujías.

No. 60—Farolas tubulares "Beacon Light" acabadas en acharolado azul. Peso neto, 7½ libras..... Cada Una, \$30 00

UNA EN UNA CAJA. PESO POR CAJA, 23 LIBRAS.

Mackey Family papers, about 1910s – 1980s



**The MINE AND SMELTER
SUPPLY COMPANY**

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Mackey family papers, about 1910s – 1980s



Sydney Adams papers, about 1920s – 1999



Sydney Adams papers, about 1920s – 1999

FIRST SMELTER IN TEXAS

THIS BUILDING WITH ITS TWO-FOOT THICK WALLS OF ADOBE WAS ERECTED IN 1887. THE FIRST STRUCTURE OF THE EL PASO SMELTER OF KANSAS CITY CONSOLIDATED SMELTING AND REFINING COMPANY. THE SMELTER WAS FOUNDED BY ROBERT SAFFORD TOWNE ON MARCH 22, 1887. ORIGINALLY A LEAD SMELTER, CHIEFLY FOR MEXICAN ORE, THE PLANT WAS TWO MILES FROM EARLY-DAY EL PASO. WHEN IT OPENED ON AUGUST 29, 1887, IT HAD 250 EMPLOYEES AND EQUIPMENT THAT INCLUDED A CHIMNEY, 100 FEET HIGH, MADE OF WOOD AND LINED WITH THIN SHEET IRON. ON APRIL 4, 1899, THE KANSAS CITY COMPANY WAS MERGED INTO THE AMERICAN SMELTING AND REFINING COMPANY, NOW KNOWN AS ASARCO Incorporated.



Sydney Adams papers, about 1920s - 1999



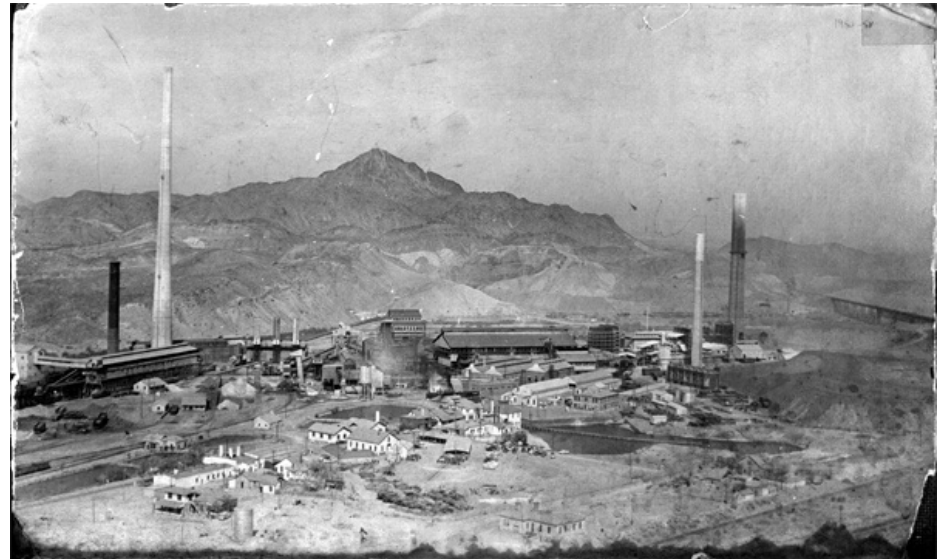
Sydney Adams papers, about 1920s - 1999



Sydney Adams papers, about 1920s – 1999



Arsenic Plant 1944

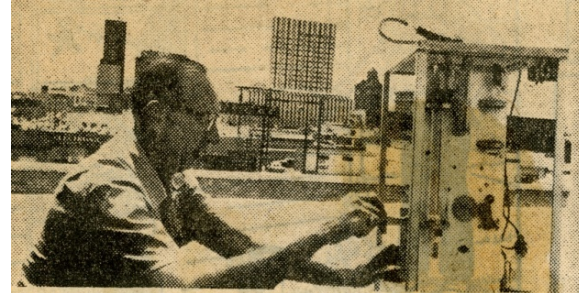


Sydney Adams papers, about 1920s - 1999



El Paso Herald-Post files

Robert Espinoza, Irma Rios - hair test



CHEMICAL SENSING devices like this one being checked by a company scientist, American Smelting and Refining Co. (ASARCO) help provide cleaner air for residents of El Paso, site of one of the firm's large metals smelters.

ASARCO Installs New Air Pollution Detector

AUG 18 1971

An IBM computing system, linked to sensors strategically placed throughout the city, is helping improve air quality for residents.

The computer, installed at a nearby American Smelting and Refining Co. (ASARCO) smelter, determines how much sulphur dioxide — a by-product gas created during copper and lead smelting — is reaching ground level.

WHEN THE computer projects sulphur dioxide concentrations approaching air quality control limits ASARCO must meet, smelter operations are curtailed or stopped.

Each of the 18 sensors placed around El Paso — some of them in residents' backyards and garages — works as a super-sensitive "sniffer" able to detect concentrations of sulphur dioxide as small as one part in 20 million.

Readings from the sensing units are transmitted electronically to the IBM 1800 data acquisition and analysis system. The computer converts the readings into minute-by-minute sulphur dioxide reports for ASARCO meteorologists.

ASARCO IS developing a mathematical model of El Paso's atmosphere. The computer will use the model to continuously simulate the city's weather and alert ASARCO officials to weather trends that would cause a build-up of sulphur dioxide at ground level.

To complete the model, ASARCO is programming into the computer several years of El Paso's weather history. Detailed data about current weather becomes part of the model each day.

Southern Pacific Railroad records, 1881 – 1974



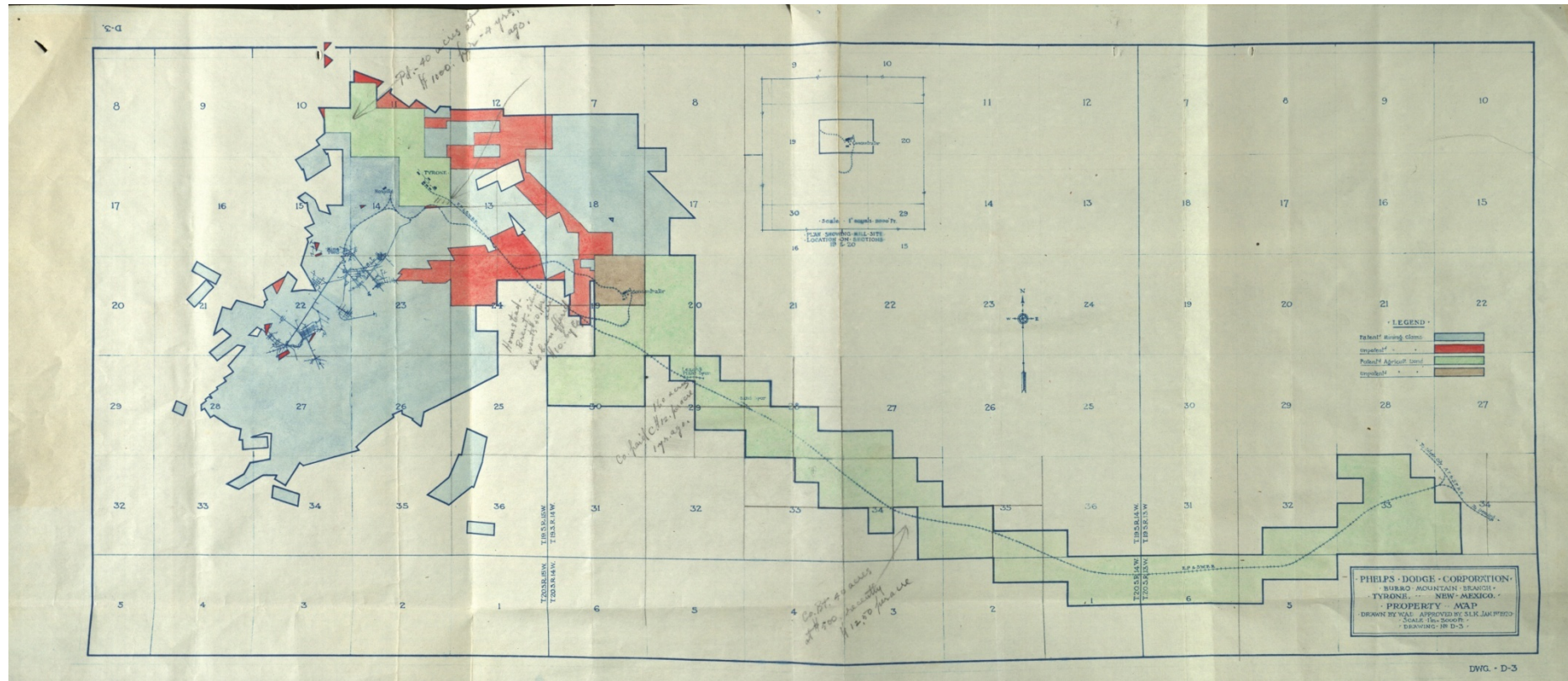
No. 308.

Southern Pacific Trains

El Paso, Texas.

Turrill
Photo.

Southern Pacific Railroad records, 1881 – 1974

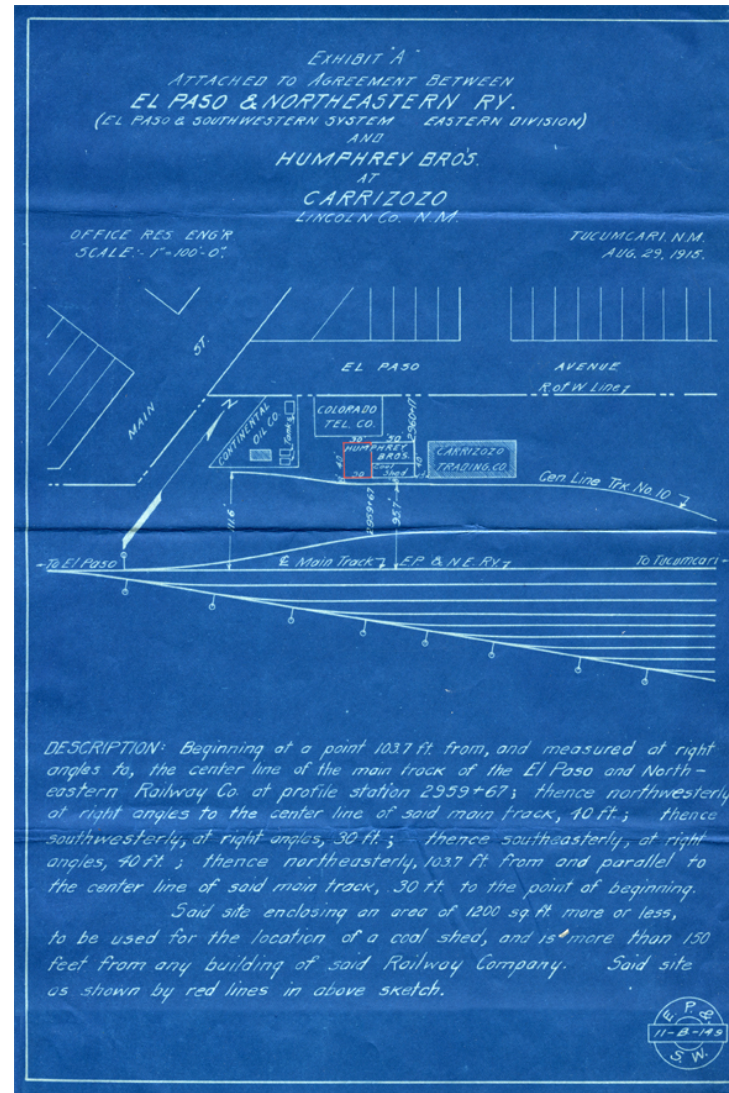


Southern Pacific Railroad records, 1881 – 1974



Night Shift at Junction Mine, Calumet & Arizona Mining Co.

Southern Pacific Railroad records, 1881 – 1974



John H. McNeely papers



John H. McNeely papers



El Paso City Directories, 1885 – Present

6 WORLEY'S 1913 DIRECTORY

The Mine & Smelter Supply Co.

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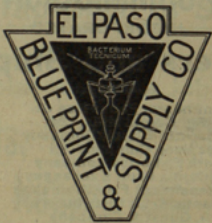
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El Paso City Directories, 1885 – Present

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TROY STEAM LAUNDRY

PHONE 27 III OVERLAND

634 WORLEY'S 1913 DIRECTORY

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Ball B. E. Mrs. 560 Mesa av
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Calisher Department Store Co. nw cor N Stanton, Texas
Ernest's, 215 San Antonio
Globe The, 266-10 E. Overland
Green E. A. Miss, 50 Buckler blk
Kaminske Julius, 112 Texas
POPULAR DRY GOODS CO. 301-13 San Antonio (see adv left top corner cards)
Mason Lula Miss, 702 Mesa av
WHITE HOUSE THE, Pioneer Plaza

MINERAL WATERS
EMPIRE BOTTLING WORKS, 400-2 Mills (see adv page 14)
HOUCK & DEITER CO. 125-127 San Francisco (see adv page 5)
SOUTHWESTERN LIQUOR CO. 108 San Antonio (see adv front cover and back fly leaf)

MINING COMPANIES
Central Mining Co. 7-12 City Natl Bank bldg
Columbia Copper Co. 204 Mills bldg
Cotoche Mining Co. 429 Roberts-Banner bldg
Creston Colorado Co. 713-14 Mills bldg
Dolores Mines Co. 713-14 Mills bldg
El Payo Mining & Development Co. 713-14 Mills bldg
Fortuna Mining Co. 7-12 City Natl Bank bldg
Herschell Mining & Milling Co. 207 Mesa av
La Dura Mill & Mining Co. 713-14 Mills bldg
La Republica Mining Co. 28 City Natl Bank bldg
Las Adargas Mines of Mexico (ltd), 316-20 Trust bldg
Memphis Mining Co. 605 American Bank bldg
Mines Company of America, 713-14 Mills bldg
North Star Gold & Silver Mining Co. 314-15 Caples bldg
North Tigre Mining Co. 7-12 City Natl Bank bldg
Organ Mountain Mining Co. 605 American Bank bldg
Peacock Copper Mining Co. 1-2 Buckler blk
Rio Tinto Copper Co. 429 Roberts-Banner bldg
Shannon Mining Co. 7-12 City Natl Bank bldg
United Gold & Silver Mining Co. 314-15 Caples bldg
Venesta Gold Mines, 314-15 Caples bldg

634 WORLEY'S 1913 DIRECTORY

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Case W. H., 511 Trust bldg
Cox W. Rowland & Staff, 11-12 Chamber of Commerce bldg
Devore E. H., 205 Mills bldg
Fishback Martin, 204 Mills bldg
Hart J. S., Old Ft. Hill
Koch W. T., 527 Trust bldg
Kohlmeier Fritz, 204 Mills bldg
Macdonald W. M., 216 Wyoming
Parker & Parker, 7-12 City Natl Bank bldg
Parsons & Kane, 4 Colos blk
Rice J. A., 516-529 Trust bldg
Tomlinson & Co., 314-15 Caples bldg
Wright L. A., 813-14 Mills bldg

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LEWIS & CROWDER, 708 Mills bldg
LUDLOW-SAYLOR WIRE CO. 507-508 Mills bldg (see adv page 9)
MINE & SMELTER SUPPLY CO. 410-14 San Francisco (see adv page 6)
PRESCOTT FRED M STEAM PUMP CO. 510 Mills bldg
ROBERTSON J. E. & CO. 508 Mills bldg (see adv page 9)
SULLIVAN MACHINERY CO. 506-8 San Francisco (see adv page 11)

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MONUMENTS
PIONEER MARBLE & GRANITE WORKS. 3619 Madera (see adv page 24)

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OF EL PASO, TEXAS 213

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210 San Francisco St. Phone 334

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Harry Robert to porter T & P Ry r 3122 Du-rain
Herrill Charles M. brkrmn E P & S W r 3505 El Paso
Hisco Joseph del man Southern Package Dely Co rms 412 S Kansas
Hiron Olanta Miss dom Roma Hotel
Hiron Salvador del man Southern Package Dely Co rms 412 S Kansas
Hortox Charles H. wrapper White House h 1319 Myrtle av
Hortox Louis A. school foreman city park Dept r 1319 Myrtle av
Hortox Frank E. mgr City Blacksmith Shop r 1414 E. San Antonio
Hiron Antonio r 1328 E 5th
Hiron Aurora Miss h 1328 E 5th
Hiron Berta Miss dom h 1328 E 5th
Hiron Fidel lab r rear 815 Hills
Hiron Francisco bartndr Melendez & Gallo rms 601 Broadway
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