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PRINTED: 12/30/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SAFFORD COPPER MINE

ALTERNATE NAMES:

GREATER ARROWHEAD GROUP
ARROWHEAD MINE
BRYCE
DOS POBRES
PATENTED CLAIMS MS 4579
PHELPS DODGE SAFFORD DEPOSIT

GRAHAM COUNTY MILS NUMBER: 98

LOCATION: TOWNSHIP 5 S RANGE 26 E SECTION 27 QUARTER S2
LATITUDE: N 32DEG 57MIN 44SEC LONGITUDE: W 109DEG 40MIN 24SEC
TOPO MAP NAME: SAFFORD - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER
COPPER SULFIDE
COPPER OXIDE

BIBLIOGRAPHY:

ADMMR GREATER ARROWHEAD GROUP FILE
ADMMR SAFFORD COPPER MINE FILE
ADMMR SUPERIOR SAFFORD PROPERTY FILE
USGS CRIB DATA
UNPAT. CLAIMS EXTEND INTO SEC. 7, 8, 17, 18,
19, 21, 25, 26, 29, 30 & 31 T5S-R26E
TITLEY, SR, ADVANCES IN GEO OF PORPHYRY P 335
PAT. EXTEND INTO SEC. 22,23,26-28, 33 & 34
BLM AMC FILE 4003
BLM MINING DISTRICT SHEETS 815 & 816
TITLEY & HICKS, GEOL PORPHYRY CU DPSTS P 251
ADMMR 2 PLAN MAPS (FLAT FILE DRAWER 18)
DRAFT EIS DOS POBRES/SAN JUAN, SEPT.1998 BLM
FINAL EIS DOS POBRES/SAN JUAN, DEC.2003 BLM

03-17-1999

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R. 26 E. 40'



SAFFORD PROJECT - PHELPS DODGE

GRAHAM COUNTY
LONE STAR DISTRICT
T5S R26E Sec. 27

E/MJ, November, 1973, p. 269
" January, 1975, p. 78
" October 1964 p. 145

Mining Annual Review, July, 1973, p. 297
" " " 1974, p. 307 (gen. info.)

Mining Engineering, 1/75, p. 10 (increase work)

Skillings Mining Review, February 22, 1975, p. 1,6 (gen. info. & personnel)

Graham MILS Index #98

AKA: Bryce, BLM Pat. Claims M S 4579, Dos Pobres, Arrowhead Mine, Greater Arrowhead Group,

Safford 15' Map (included in file)

Arizona Department of Mines and Mineral Resources

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM 6277 Chalcopyrite and Bornite

GRAHAM COUNTY

Lonestar District

Safford Copper Mine (file)
7 MILS # 98
5- AKA 12

SAFFORD COPPER - GRAHAM
SAN JUAN - GRAHAM

NEWS RELEASE



One North Central Avenue, Phoenix, AZ 85004 (602) 366-8100

For Immediate Release

Media: Peter J. Faur
(602) 366-7993

Investors: Stanton K. Rideout
(602) 366-8589

BLM Issues Record of Decision Approving Land Exchange For Phelps Dodge's Proposed Copper Mine Near Safford, Ariz.

PHOENIX, July 2, 2004 – Phelps Dodge Corp. (NYSE:PD) said today that the U.S. Bureau of Land Management has issued its Record of Decision supporting a land exchange with the company. This paves the way for a proposed copper mining operation near Safford, Ariz., to move forward.

When completed, the land exchange will transfer to the public valuable, environmentally sensitive land owned by Phelps Dodge in exchange for land of equal value next to the company's property near Safford. The land Phelps Dodge will receive will be used primarily for support facilities and as a buffer to the proposed mining operations.

"This is an important day for Phelps Dodge and represents a critical milestone in bringing this significant project into operation," said Timothy R. Snider, president and chief operating officer of Phelps Dodge Corp. The proposed project includes development of the Dos Pobres and San Juan copper ore bodies, located about eight miles north of Safford in southeastern Arizona. The company is completing a feasibility study and continuing efforts to secure all necessary permits.

The BLM decision initiates an administrative process that begins with a 45-day period for public comment.

Phelps Dodge Corp. is the world's second-largest producer of copper, a world leader in the production of molybdenum, the largest producer of molybdenum-based chemicals and continuous-cast copper rod, and among the leading producers of magnet wire and carbon black. The company's two divisions, Phelps Dodge Mining Company and Phelps Dodge Industries, employ more than 13,500 people in 27 countries.

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SAN JUAN (F) GRAHAM

SAFFORD CO (F) GRAHAM

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SAFFORD COPPER (F) GRANT

NEWS RELEASE

One North Central Avenue, Phoenix, AZ 85004 (602) 366-8100

For Immediate Release**Media:** Peter J. Faur
(602) 366-7993**Investors:** Stanton K. Rideout
(602) 366-8589**Bureau of Land Management Publishes Final Environmental Impact Statement
For Phelps Dodge's Proposed Copper Mining Operation in Safford, Arizona**

PHOENIX, Dec. 12, 2003 – Phelps Dodge Mining Company, a division of Phelps Dodge Corporation (NYSE:PD), said today that the U.S. Bureau of Land Management ("BLM") has published the Final Environmental Impact Statement ("FEIS") for a proposed copper mining operation near Safford, Arizona.

Publication of the FEIS, which analyzes the anticipated environmental impact of the proposed project, is a necessary step in acquiring permits for Phelps Dodge to develop the Dos Pobres and San Juan copper ore bodies. These ore bodies are located about eight miles north of Safford.

The FEIS explains how the resource will be developed and what measures will be taken to protect the public and the surrounding natural environment. The BLM coordinated development of the study in cooperation with the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency.

The BLM will publish its decisions about the project in a Record of Decision and Notice of Decision. Publication of these documents is likely to occur in several months.

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Arizona Department of Mines and Mineral Resources

1502 West Washington, Phoenix, AZ 85007 Phone (602) 255-3795
1-800-446-4259 in Arizona FAX (602) 255-3777 www.admmr.state.az.us

Verbal Information Summary

Mine: Dos Pobres (Safford Copper (f)) and San Juan (f) Date: January 16, 2004

County: Graham County

Engineer: Nyal Niemuth

Location: T5S, R26E, Sec. 27, 35 and others

Summary of notes from a program presented to the Maricopa SME January 15 entitled "Phelps Dodge's Safford leach project" by John Korolsky, Phelps Dodge,

Time Line

1950's Phelps Dodge first entered the district

1994 proposed land exchange

1996 submitted mining Plan of Operation

1998 draft EIS released

2002 USGS became a partner reviewing mitigation and monitoring of ground water impacts

Dec., 2003 FEIS published

Economics: The project will have a 16-year life. Production will be about 200 million pounds of copper per year. The project will create 350 direct jobs, including 100 contractors, and 275 indirect jobs. The Safford district is the largest undeveloped copper resource in the United States.

Operation: The project affects 3,400 acres and will have two pits. The Dos Pobres pit will be 1,400 feet deep and San Juan will be 1,000 feet deep. The mining rate will 250,000 tpd, crushing and conveying will be 100,000 tpd. The mine will produce and treat both crushed and run-of-mine leach material, the latter about 10,000 tpd. The crushed material size will be 0.5 inch. It will be agglomerated and use about 10 pounds of sulfuric acid per ton. The material will be placed in a retreat-stacking mode, unlike the advance stacking in use at Morenci, to avoid compaction. The single heap leach pad will be the largest lined pad at about 900 acres, nearly 1.5 square miles. One hundred yard long stackers, the world's largest, will be used to build it. Leach solution will be applied with drip emitters.

Permitting: All solution facilities will be double-lined and the entire project is designed to be a zero discharge facility. The biggest air quality concern is dust from the haul roads. The permitting required compliance with thirty laws and regulations. The view shed was an important planning consideration to get local support. People were afraid the mountains north of town would come down or that the heap leach pad would tower over the town of Safford like tailings do at some older operations.

Major permits necessary included the mining plan of operation and land exchange filed with the BLM; obtaining the 404 CWA permit and the 402 NPDES permit from the Army Corps of engineers; APP and Air Quality from ADEQ; and approval of the reclamation plan from the Arizona State Mine Inspector.

Water quality and quantity was an important issue, especially with the San Carlos Indians. Fortunately the ground water will come from "bathtub" graben that hydrologically separates the project from the Gila River, 8 miles to the south and the reservation to the north. Showing no significant impact required a very detailed ground water model. This was a big part of the study from 1996 to 2003. Dames and Moore developed the details using a USGS ground water mathematical model. Bob McNish was the BLM's hydrologic consultant. The impact to the Gila River will be 149 acre-feet per year. This is 0.05% of the historical annual flow of the Gila River. This impact is mostly due to preventing surface runoff from the mine project area. This will be more than offset by fallowing in rotation 200 acres of farmland. The net beneficial offset is 3 times the impact. The impact to the San Carlos Indian Reservation is projected to be insignificant and unmeasurable. An ongoing provision of the permitting is the **3M plan**. That stands for model, monitor, and mitigate, and is enforceable by the feds. Monitor data collected will be posted on the BLM website. If groundwater impacts are found to be outside of the models projection, the model will be recalculated.

Land exchange: Phelps Dodge owns 20,000 acres of land in the district. The company also owns the Lone Star and Sanchez copper deposits in the district. This project will impact 3,400 acres. Phelps Dodge will trade about 16,000 acres of land to obtain 4,000 acres of BLM land that will adjoin the project. The BLM receives environmentally sensitive and high value habitat land. These lands are in the Gila Box and Tavaschi Marsh (near Tuzigoot and Clarkdale) areas. The project will increase the amount of private land in Graham county and that is well received by local residents and governments.

Future events: The EIS process took 9 years. The project is key to Phelps Dodge's long-term strategy and southwestern US mining presence. It is part of the reason for the recent location on Phelps Dodge's mining headquarters to Safford. The company's metallurgical research facility is already located there. Construction is anticipated to occur about 2005-2007 and production should occur about 2007 – 2009. The record of decision is expected about mid 2004. That event will kick off the administrative and legal appeal process from actions that are likely to be filed.

Questions:

Where will the acid come from? From the Miami smelter and reduction in acid consumption at other operations.

What will be the water usage? The maximum water usage is 4,000 gallons per minute. The average usage is typically 3,600 gpm with most of that being used for dust control on the haul roads.

What about "concurrent reclamation" and future sulfide mining? Some reclamation will begin 3 to 4 years into the project life. The locations of the mine dumps and leach pad have been chosen to allow room to expand the pit in the future with out having to move them. Future sulfide mining will require changes to or new permitting.

Can the project go forward with out the land exchange? In summary the 2 are tied together in their approval. If a problem is found it will be fixed and the process continues forward.



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Summary from a talk given by Harry "Red" Conger, President Phelps Dodge Morenci to the AMIGOS luncheon March 10, 2000, Phoenix, AZ by Nyal J. Niemuth, ADMMR Mining Engineer

At present Morenci has 2,550 employees. Everyone, workers and management, is going to benefit equalization, team performance based merit pay, and new work rules. The Metcalf concentrator shut down in August 1999. Prior to the shut down Morenci was mining 840,000 tons/day, now 780,000 tons/day. Tire life is now up to 35,000 miles. The use of the Geographic Positioning System (GPS) on the shovels has greatly reduced misdirected ore i.e. leach rock to mill and vice versa. The new corporate goal is to maximize value in everything they do. Contract labor and supply inventory are being reduced. The key to expanding/changing the Morenci operation is the recently completed land exchange in the northern part of the property that allows expansion of the leach stockpiles.

Regarding the acquisition of Cyprus-Amex. The integration of the two companies is going smoothly, but in itself that generates no benefits to the merged companies. Benefits will come from managing all the mines' equipment as one fleet (the Cyprus GEM idea), for example some of the North American properties recently sent under-utilized mining equipment to Candelaria in Chile. Improvements in sourcing will be important including both purchasing and sharing inventory among nearby mines.

Morenci is being operated to minimize cost once again, as in the late 80's, not maximize production as in early 1990's. Production is targeted to be 780 million pounds this year, not the 1.1 billion pounds of the mid 1990's.

The change to all leaching at Morenci is going forward. The Metcalf mill's crushing plant is still being used, now for crushing leach material, sending 75,000 ton per day to the south leach stockpile. High-grade ore will be leached in 20' lifts. All leach will eliminate the capital and operating costs of many process steps. The goal is lower process costs. In 8 to 9 years the mine will have a large amount of chalcopyrite ore rather than chalcocite so milling will again need to be evaluated.

During the period 1999 through 2001, about \$1,220 million will be invested. Mechanical stackers will be installed. Fine crush leach expertise was gained from the staff at (the formerly Cyprus) El Abra mine in Chile where they worked with mechanical stackers and agglomeration. Morenci hopes to aggressively implement their knowledge into the all leach operation, avoiding problems and accelerate recovery by copying El Abra's success. Agglomeration technology will be incorporated now rather than implementing it later.

Ore will be crushed to 1.5" on permanent lifts to achieve a 70% recovery. If a 0.5" crushed is used an 80% recovery can be obtained. Recovery will occur over a period of 2.5 years from three lifts. It will take 8 months to build a lift and leaching will have 2 cycles per lift. The plan is to achieve a 9-cent per pound reduction in costs. Phelps Dodge like many copper producers is researching to be able leach concentrates. May be able to do some day but not yet. Acid supply will be in near balance with Morenci but will be in shortage when Safford goes on line. Will then make or buy acid.

High fuel costs are hurting operations at present. The mine uses 2.5 million gallons of diesel fuel per month.

Other Arizona Operations

Safford Safford continues to be pushed forward. Sometime in 2000 the EIS for the new mine an open pit and heap leach operation should be final. Startup will be dependant on the completion of the land exchange. It took about 5 to 6 years to complete the exchange for Morenci. It is necessary to have a long time frame to successfully plan a new major operation such as Safford.

New Cornelia at Ajo New Cornelia may be a future swing operation, operated when copper prices are high. At the present low copper prices (low 80cents/pound) the project is stopped.

Abstracted 6/30/80 JFW

MEMORANDUM

To: John H. Jett, Director
From: Ken A. Phillips, Mineral Resources Engineer *KAP*
Subject: Safford Branch, Phelps Dodge, Underground Mine Visit
5/29/80 -

In the company of Dick Beard, the underground and surface facilities of the Safford Branch of the Phelps Dodge Corporation were visited.

Phelps Dodge is developing an underground copper deposit in the Lone Star District, Graham County, Arizona. The deposit consists of approximately 400,000,000 tons of sulfide copper ore averaging 0.72% copper. The mine is known as the Dos Pobres. The ore minerals consist of chalcopyrite and slight bornite disseminated in quartz veinlets in andesite. Some molybdenite exists at the fringes of the ore body but no recovery is planned. The ore body is approximately 1500 feet in vertical extent. The top of the ore is over 1000 feet below the surface of the ground.

The ore body is being developed for block caving. Development is by two main shafts, the Number 1 (eastern) and Number 2 (western). The two shafts are nearly two miles apart and will eventually be connected by parallel haulage tunnels north and south of the ore block. Work is continuing at a reduced pace from the Number 1 shaft. Present work consists of continuing the parallel haulage tunnels on both the transfer level and the haulage level and the driving of cross cuts through the ore block from both the north and south tunnels. The sinking of the 25' diameter Number 2 main production shaft has been halted pending a decision for a planned production startup date. Sinking was stopped 1500 feet below the collar. The production shaft will be equipped with friction hoists mounted in the headframe.

The haulage tunnels and crosscuts are advanced by drilling a 3 foot, 5 foot, or 10 foot round depending on the competency of the ground. Drilling is done *by UTT* by two drill jumbos. After the rounds are loaded and shot, mucking is done with a 3 or 5 yard loader. Muck is loaded into rail haulage cars or trucks and hauled to shaft pockets. The ground is supported by rock bolts, shotcrete and arched steel sets. Four inch steel pipe is used for logging. Some spiling is necessary in the worst ground. Many of faces and tunnels make considerable water, especially where they cut faults.

Development ore is being stockpiled. Thus far, the stockpile contains approximately 250,000 tons. It is expected that about 1 million tons will have been stockpiled before the mill starts. The mill will start at a rate of 10,000 tons/day with expansion planned to 20,000 tpd and possibly to 30,000 tpd if the mine can support such a level. The metallurgy is simple. The mill will be a sulfide flotation plant.

The mine is presently making 890 gallons of water per minute. Mine water is used for all purposes except drinking.

The underground visit was made with Fred ~~W~~ierthaler and Keith Lemon. The surface plant was toured with Jack Riddle.

KAP:mw

cc: DMR Tucson

SAFFORD PROJECT

On mine visit to Phelps Dodge, Safford Project, spoke with Bruce Nichols, Chief Engineer, visited site of new offices and No. 2 shaft. GWI WR 6/18/75

PD Safford, the sinking headframe a shaft no. 2 has been dismantled and in its place a headframe and Swedish Hoist will be installed. Development work is proceeding. GWI WR 10/13/76

KAP WR 5/29/80: In the company of Richard Beard, toured the Phelps Dodge Safford Branch underground copper mine and surfact plant. (A separate report will be written.)

NJN WR 9/2/81:

)
Bill Kay of San Francisco (whom I suspect is associated with Gold Depository and Loan Inc.) was in and recorded the conversation between himself, Dick Beard, and myself. He was very interested in the area around and including Kennecott's Lone Star Copper deposit and Phelps Dodge's Dos Pobres mine. According to Mr. Kay, Phelps Dodge failed to record 1980's assessment work for some of their unpatented claims which are near the Dos Pobres patented property. The group Mr. Kay is representing located claims in this area upon discovering Phelps Dodge's failure to record the assessment work. Mr. Kay also reported his group is sampling the Buckeye-Apache Mine, Cochise County.

MG WR 3/9/84: I have heard that an out-of-court settlement between Phelps Dodge and the Gold Depository & Loan Co. was made to exchange interest in two mining properties. Phelps Dodge reportedly dropped all interest in the Buckeye-Apache property (Cochise Co) and Gold Depository & Loan dropped all interest in the Dos Pobres (Safford) property.

MG WR 9/28/84: Equipment has been pulled by the Phelps Dodge Corp. from the Dos Pobres (Safford) mine (Graham CO). Water is being allowed to flood the developed workings.

NJN WR 1/29/88: Dave Lowell, geologist, categorized the Dos Pobres porphyry (Safford Copper Mine - file) Graham County as being relatively gold rich. The "high grade" gold corresponds to the high grade copper and is contained in the upper portion of the inverted funnel shape of the deposit.

Phelps Dodge Safford project - mine visit. GWI WR 2/16/71

Lone Star - Development work at Phelps Dodge Safford project continues at the planned rate. GWI QR 4/1/71

Mine visit. Phelps Dodge Safford project. GWI WR 4/19/71

Mine visit - PD Safford project. GWI WR 6/14/71

Phelps Dodge Corp. continues their Safford project. A new contractor, L.A. Patton of Bayard, New Mexico, will do the level driving. The hoists, compressors, new headframe and the rest of the mine plant are in place. During this period more holes were drilled from the surface through the ore-bearing area. GWI QR 6/30/71

The Safford Mining area (Lone Star) is beginning to look like a future big district in Arizona. Phelps Dodge is drifting towards their ore body for an experimental cave. The surface plant certainly does look like a going operation. GWI QR 9/71

Active mine list - October 1972 - Safford Project under development, empl. 12

Mine visit. Safford PD project trip ug. GWI WR 10/19/71

In the Lone Star district, Phelps Dodge continues their large exploration and development. GWI QR Jan.-March -72

Mine visit. Phelps Dodge Safford project. GWI WR 2/14/72

Phelps Dodge Safford project development continues with development of a block for caving GWI 4 $\frac{1}{2}$ '72

First was a mine visit to the Phelps Dodge Safford property. At the Safford property we talked to Mr. Skip Clark the engineer in charge for Phelps Dodge and Mr. M.L. Hinkins who is his assistant. Phelps Dodge Corporation has approximately 10 employees on the job but the contractors who work for them had between 50 and 60 employees on the job. At the present time they are doing development work for the new block cave system underground that they expect to work on. They have experienced some difficulty with heavy ground. GWI WR 10/10/72

Mine visit to Phelps Dodge Safford project. Talked to S. Clarke, Engineer in charge. GWI WR 12/21/72

Phelps Dodge will spend \$4 to \$5 million in a development program at its Safford, Arizona, copper property. Extensive underground drifting, drilling and testing of mining methods are planned in an evaluation of the large, low-grade deposit. Eventual production, if undertaken, would be by block caving methods. Metals Week Oct. 14, 1968

Copper Creek, Mercer Ranch project of Phelps Dodge Corp. in the Northern Galiuro Mts. Roads have been built and drilling continues. This has the appearance of the beginning of a large project. Lone Star district, Phelps Dodge were just a few feet of completing their 1800' circular shaft. Sycamore Canyon - Claim staking for the most part. However, Phelps Dodge continued assessment work on their claims in the area. GWI QR 9/69

Active Mine List - Oct. 1969 - Development

The shaft on the Phelps Dodge Safford Project has neared completion. GWI QR 2/27/70

Phelps Dodge Safford Project shaft completed along with shaft station. Two hoists will be installed along with a new head frame. One double drum hoist will be used for the skips and one for men and supplies. The development work will be done on a new contract to be let. The road from the paved county highway has been much improved. GWI QR 4/1/70

Active Mine List - May 1970 - Development - E. Clark in charge.

Visited the Safford Project (PD Corp) More drilling being done. GWI WR 6/13/70

Construction work for the surface plant for the Safford Phelps Dodge project continued through this quarter. The hoists were in place, the large compressors and building were being installed. New equipment was observed in the mine yard. The hoists were both double drum. The old head frame that the contractor used for sinking was still in place, but was scheduled for early removal along with hoist and other sinking equipment. GWI QR 6/30/70

Construction work at the Phelps Dodge Safford project continues. GWI QR 10/1/70

Active Mine List - Oct. 1970 - 10 men - E. Clark in charge.

Visited the Safford Project - New head frame up, pouring cement for bins. GWI WR 12/12/70

The Phelps Dodge Safford Project continues on schedule. During the quarter the contractor hoisting equipment has been removed, two company hoists put into operation. The permanent headframe installed, concrete muck bins poured, and the contractor selected for the mine development work. Three large rotary drills have been working over the mineralized area to be developed. GWI QR 12/31/70

SAFFORD PROJECT

GRAHAM COUNTY

Phelps Dodge started sinking their 1875 ft., 18' diameter shaft at their Safford project. Boyles Brothers has the contract, upon completion of their work the steel headframe, hoist house and hoist will be removed. Present plans call 3600' x-cutting, 8000' drifting, 30,000' ug drilling and the caving of a test block. GWI QR 12-1968

The shaft at the Safford Project of the Phelps Dodge Corporation was down over 600 feet by the end of the period. The first loss of life on the project occurred to one of the contractor's men during this period. Bryce Willis of Clifton was doing contract work on the surface, building roads, etc. GWI QR 3-1969

Active Mine List April 1969 - E. Clark in charge - P.O. Box 151, Safford (Phelps Dodge)

PHELPS DODGE NOW CONTROLS 494 SAFFORD

COPPER CLAIMS

All details in connection with the purchase of 299 unpatented mining claims in the Safford, Arizona, area have been completed by Phelps Dodge Corporation. The purchase price of approximately \$3,500,000 was negotiated with the owners two years in advance of the date of option held by Phelps Dodge since 1957.

This block gives the company control of 494 claims in the area, since Phelps Dodge located 195 adjacent claims in 1957. The company has been exploring the property by core drilling under contract to Sprague and Henwood Drilling, Inc. of Grand Junction, Colorado.

The claims are in the Lone Star Mining district, approximately 10 miles north and a little east of the city of Safford. They are located in Sections 17, 20, 21, 22, 23, 26, 27, 28, 29, 33, 34 and 35 of Twp. 5S, R26 E.

The company considers the Safford claims and the copper ore to be an asset for the far-distant future, and does not contemplate undertaking any mining operations for many years. The mineralization is copper sulphides and the property will be an underground mine.

Taken from MINING WORLD, March, 1961 - p 56.

Capital expenditures by the mining division of Phelps Dodge Corp. amounted to \$7,374,000 in 1961. Of this amount \$3,588,000 was paid early in 1961 for the purchase of 299 unpatented mining claims located near Safford, Ariz. A copper deposit within the area covered by the claims was discovered early in 1958, and subsequent development drilling in 1958 and 1959 proved it to be large, although of low grade. These claims are considered by Phelps Dodge to be an asset for the future, and they do not contemplate any mining operations for many years.

Taken from MINING WORLD, Sept, 1962, p 64

See: MINING WORLD, Dec. 1962, p 36



Safford Project Circular

Quick Facts

- Description:** A proposed copper mining operation to develop the mineral resources of the Dos Pobres and San Juan deposits.
- Owner:** Phelps Dodge Mining Company, a business division of Phelps Dodge Corporation.
- Location:** Approximately eight miles north of Safford, Arizona, in the foothills of the Gila Mountain Range.
- Property:** Approximately 20,000 acres of Phelps Dodge property with the right to operate on public land via a Mine Plan of Operations. However, under a land exchange alternative being considered by the Bureau of Land Management, the Company would acquire approximately 17,000 additional acres of federal public land adjacent to the property in a dollar-for-dollar exchange for about 3,900 acres of Phelps Dodge land at various Arizona locations.
- Mine:** Two open pit mines:
– Dos Pobres – 4,200 feet diameter. Final depth 1,400 feet.
– San Juan – 5,000 feet by 3,800 feet (oblong). Final depth 1,000 feet.
- Ore:** 626 million tons of ore averaging less than 0.4% copper; 385 million tons non-ore.
- Process:** Mine for leach (solution extraction/electrowinning) with crushing and conveying systems.
- Mining rate:** 181,000 tons per day average.
- Annual Production:** Up to 250 million pounds of 99.999 percent pure copper cathode.
- Employment:** 250 full-time employees earning an average \$36,000 and benefits annually, and an additional 100 contract employees. Construction will require an average of 470 employees over a 15-month period. An average of an additional 275 indirect jobs will be generated by the project within the community.
- Annual Payroll:** \$9 million for PD employees and an additional \$2.5-\$3 million for contract employees. Construction payroll is estimated at \$25 million.
- Construction Cost:** Approximately \$370 million, including engineering.
- Sales/Tax Revenues:**
– \$137.7 million state and local taxes over life of project.
– \$282.5 million in federal income and payroll taxes over life of project
– \$13.1 million by employees over life of project.
– Increased tax revenues to Graham County and local cities and towns estimated at \$3.6 million annually.
- Mine Life:** Approximately 16 years.
- Startup:** Dependent on permitting, with estimates ranging from two to five years from publication date of draft Environmental Impact Statement (9/98)
- Information:** Call or write the Phelps Dodge Safford office, (520) 428-0205, 625 Main Street, P.O. Box 151, Safford, AZ 85548.



Safford Project Circular

Overview of the Safford Project

The Safford Project is a proposed copper mining operation located eight miles north of Safford, in southeastern Arizona. The project will develop the mineral resources of the Dos Pobres and San Juan deposits, enhancing the area's economy and producing copper needed to make many of the items essential to daily life. Project planning, which started in 1993, took a significant step forward in September 1998 with the release of a Draft Environmental Impact Statement (EIS). That document was completed by federal agencies in accordance with the National Environmental Policy Act. The next step for the agencies is to gather public comments to include in a final version of the EIS. Key information about the project is listed below.

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- The project will combine open pit mining and solution extraction/electrowinning (SX/EW) technologies and will include a rock-crushing and material handling system, and infrastructure and support facilities. This SX/EW process is smelter-free, uses modern, proven technology, and yields a 99.999 percent pure copper product for use in the manufacturing and electrical industries. The project will produce up to 250 million pounds of copper annually at world competitive costs for approximately 16 years.

SCHEDULE

- Construction of the plant and mine facilities will require approximately 15 months to complete and may start upon completion of the Project's permitting requirements. The mining operations phase, which would likely begin sometime three to five years from now, is currently expected to last 16 years.

JOBS & ECONOMY

- About 250 full-time workers will be employed when the mine is fully operational. Those workers will earn an average of \$36,000 annually. This workforce, meanwhile, will be supplemented by local area businesses which will provide services on a contract basis with a payroll of \$2.5 to \$3.0 million annually (representing about 100 additional jobs). An average of an additional 275 indirect jobs will be generated by the project within the community. Over the project's life, local expenditures for goods and services will reach in excess of \$100 million, and some \$3.6 million will be added annually to tax revenues of Graham County and its local cities and towns, supporting local government and education.

ENVIRONMENT

- The Safford Project will adhere to all applicable environmental regulations and will protect air and water resources. Our promise, from construction and operation through eventual reclamation of mined land, is to be a responsible natural resource developer and member of the community.
- The processing system is designed to conserve water. Impacts to the surrounding environment will be minimized. Water for mining will come from wells in bedrock aquifers located on Phelps Dodge property, and will be recycled and retained on the property.
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Safford Project Circular

Economic Benefits

The positive economic impact of the Safford Project on Graham County, its cities and towns, and area businesses and residents will be substantial. This circular describes how the area will benefit economically from the project.

CURRENT SITUATION

- Graham County had a Civilian Labor Force of 11,425 in 1996, of which about 1,100 or about 9.7 percent were unemployed. In the most recent Census Data available (1990), the median household income in the county was approximately \$3,600 below that of Arizona as a whole. On the more positive side, about one-third of Phelps Dodge employees who work in neighboring Greenlee County already live in Graham County and, like mining employees overall, earn salaries above that of the average Arizonan. This project will create additional Phelps Dodge employment opportunities for local residents, and opportunities for local businesses to provide goods and services to the company, or otherwise receive direct or indirect economic benefits.

FUTURE JOBS

- The project will employ approximately 250 workers earning an average of \$36,000 per year plus benefits over the project's anticipated 16-year life -- about 80 percent of whom will be hired from Graham or Greenlee counties. Salaries, over 16 years of operation, will total about \$144 million.
- A contract payroll of \$2.5 to \$3.0 million annually will provide jobs for another 100 workers. Over the life of the project, the contract payroll will amount to about \$44 million.
- An average of an additional 275 indirect jobs will be generated by the project within the community.
- Although it may be several years before the project begins hiring for operations, there will be job opportunities during the 15-month construction phase. An average of about 470 workers are expected to be employed during this period (with a jump in employment during the peak eight months of construction). Phelps Dodge expects contractors will award about 40 percent of the jobs included in the \$25 million construction payroll to residents of Graham and Greenlee Counties.

OTHER BENEFITS: TAX REVENUES, LOCAL EXPENDITURES AND COMMUNITY CONTRIBUTION

- Currently, only about 7 percent of the 3 million acres of land in Graham County are taxable. With the addition of this project, the County (along with local cities and towns) will receive \$3.6 million per year in tax revenues that it does not receive today. Other tax impacts (over the life of the project) will include nearly \$138 million paid by Phelps Dodge in state and local taxes and just over \$282.5 million in federal income and payroll taxes. Approximately \$13 million in additional state and local taxes will be paid by Phelps Dodge employees. Local expenditures for goods and services, meanwhile, will exceed \$100 million.
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- Communities around the Safford Project already benefit from Phelps Dodge's community involvement and contributions program, and from the many Phelps Dodge employees who already live in the community. Once hiring begins for the Safford Project (which may be several years from now), Phelps Dodge will continue to encourage its employees to volunteer and contribute financially to their communities (that is, through matching gifts programs, community giving campaigns in the workplace, involvement in civic organizations, and other support). ♦♦♦



Safford Project Circular

Quick Facts – Economic Benefits

Construction Cost: Approximately \$370 million, including engineering & payroll.

Construction Payroll: Approximately \$25 million over a 15-month period.

Jobs: 350 direct (250 PD and 100 contractor), 275 indirect.

Annual Payroll: \$9 million for PD employees and an additional \$2.5-\$3 million for contract employees during operation.

Tax Revenues:	\$ 54.2 million	local property taxes
	\$ 5.9 million	state & local sales taxes
	\$ 53.3 million	state income taxes
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	\$ 6.3 million	state & local construction taxes
	\$150.9 million	TOTAL STATE & LOCAL TAXES GENERATED
	\$282.5 million	FEDERAL INCOME & PAYROLL TAXES

Taxes Returned to Local Community: \$57.6 million (estimated).

Mine Life: Approximately 16 years.

Schedule: Startup dependent on permitting, with estimates ranging from two to five years from publication date of draft Environmental Impact Statement (9/98).

Information: Call or write the Phelps Dodge Safford office, (520) 428-0205, 625 Main Street, P.O. Box 151, Safford, AZ 85548.



Arizona Department of Mines and Mineral Resources

1502 West Washington, Phoenix, AZ 85007 Phone (602) 255-3795

Toll Free in Arizona 1-800-446-4259 FAX (602) 255-3777

Safford/Copper Mine (F) Groh

November 24, 1998

Tom Terry, Project Manager
Bureau of Land Management
711 14th Avenue
Safford, Arizona 85546
Attn: Dos Pobres/San Juan Mine Comments
Dear Tom Terry:

The Arizona Department of Mines and Mineral Resources supports the development of the Dos Pobres/San Juan copper mine.

We believe the Dos Pobres/San Juan copper mine can be developed and operated in a manner that will be safe for Arizona's environment, will produce a valuable basic raw material for society, and will be good for the southeastern Arizona economy. We encourage the Bureau of Land Management to continue the permitting process toward timely, economically sound, and environmental responsible development of Arizona's copper resources.

Copper produced from the Dos Pobres/San Juan Mine can reduce the use of copper from mines in countries with far less safe environmental practices. Production of mineral resources mined in the USA and Arizona is the most environmentally safe in the Western Hemisphere. As people improve their quality of life, upgrade or build new homes, factories, and businesses, and develop safer ways to produce and conserve energy they will use more copper. That copper should be produced by Arizona workers, under Arizona and US environmental oversight.

Sincerely:

Ken A. Phillips
Chief Engineer and Acting Director

Safford Copper Mine (F) Gordon



P.O. Box 151, Safford, Arizona 85548 • (520) 428-0205 • FAX (520) 428-7827

October 12, 1998

Mason Coggin
Dept. of Mines and Mineral Reso
1502 W. Washington
Phoenix, AZ 85007

Dear Mr. Coggin:

You may have heard that Phelps Dodge Mining Company has been involved with permit activities for the Dos Pobres/San Juan Mine north of Safford, Arizona. An important milestone was reached in late September with the release of a draft Environmental Impact Statement (EIS). The U.S. Bureau of Land Management (BLM) issued the two-volume document in conjunction with other federal agencies in accordance with the National Environmental Policy Act. The comprehensive study is the basis for obtaining numerous state and federal environmental permits relating to the protection of water, air and other resources. The next step for the agencies is to gather public comments to include in a final version of the EIS. It is important that comments supportive of the project be part of the official record. A 60-day public comment period began on September 25.

Three public open houses have been scheduled by the agencies to gather comments on the EIS. The times and locations for these opportunities to comment are:

October 27	October 28	October 29
4:00 – 8:00 pm	4:00 – 8:00 pm	4:00 – 8:00 pm
BLM Safford Field Office	BLM Tucson Field Office	BLM Phoenix Field Office
711 14 th Avenue	12661 East Broadway	2015 West Deer Valley Road
Safford, Arizona	Tucson, Arizona	Phoenix, Arizona

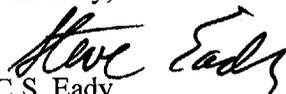
We invite you to drop in to at least one of these meetings and offer your comments on the EIS. The format is designed so that your visit can be as long or as brief as you desire. You may also send written comments directly to the BLM in care of Tom Terry, Project Manager, Bureau of Land Management, 711 14th Avenue, Safford, Arizona 85546, or you may comment electronically to him at tterry@az.blm.gov. The comment period lasts 60 days and ends on November 25, 1998.

We have enclosed some information that highlights the economic significance of this proposed world-class operation.

If you have questions for BLM, please call Mr. Terry at (520) 348-4400. If you would like to talk to someone from Phelps Dodge, please call (520) 428-0205. Thank you in advance for your participation.

This is a significant and encouraging development, but it is only one of many hurdles we must clear before the Safford Project becomes a reality. Actual operations could still be from two to five years away depending on the permitting process.

Sincerely,


C.S. Eady
Senior Geologist



Safford Project Circular

Quick Facts

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SCHEDULE

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JOBS & ECONOMY

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	\$282.5 million	FEDERAL INCOME & PAYROLL TAXES

Taxes Returned to Local Community: \$57.6 million (estimated).

Mine Life: Approximately 16 years.

Schedule: Startup dependent on permitting, with estimates ranging from two to five years from publication date of draft Environmental Impact Statement (9/98).

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Bureau of Land Management • Arizona

Update: Phelps Dodge Mining Plan of Operation

August 1996

Summary:

Phelps Dodge Corporation, a mining company, has submitted a Mining Plan of Operation to BLM which outlines their intended use of public lands adjacent to their mining properties near Safford, Arizona. As an alternative of the Mining Plan of Operation, Phelps Dodge has proposed a land exchange in which Phelps Dodge would acquire approximately 15,000 acres of public lands (selected land) adjacent to their existing Dos Pobres, San Juan, and Lone Star properties located near Safford. In exchange, BLM would acquire approximately 3,000 acres of privately held land (offered land) occurring in four parcels located in Graham, Cochise, Santa Cruz and Pima counties.

Background:

Phelps Dodge Mining Company, the mining and metals division of Phelps Dodge Corporation, is one of the world's largest producers of copper and continuous-cast rod. In the United States, Phelps Dodge Mining Company operates three open-pit copper mines, three concentrators, three solution extraction/electrowinning plants and two smelters.

Phelps Dodge is seeking to utilize and consolidate its land holdings within and adjacent to their existing Dos Pobres, San Juan and Lone Star properties. Phelps Dodge intends to use a portion of the selected land to support and expand mining-related operations, with the remainder used for site security and environmental buffers. Through the exchange, BLM has the opportunity to acquire lands containing important natural resources and other values which would meet desired management-objectives.

The proposed exchange is consistent with BLM's Safford District Resource Management Plan (RMP), which identifies the selected lands for potential disposal. The offered lands are located within three Long-Term Management Areas (LTMA's) identified by the RMP.

BLM will prepare an Environmental Impact Statement (EIS) to analyze the mining plan of operation and the exchange alternative. Also included in the EIS study, will be an application under the Clean Water Act for a Section 404 permit.

Current Status:

Three public open house meetings will be held during September 1996, in Safford, Phoenix, and Tucson to provide information to the public concerning the proposed mining plan of operation and exchange. A Draft Environmental Impact Statement will be published in April 1997. The Final EIS will be prepared and distributed to the public in November 1, 1997. A Record of Decision will be published in January 1998.

BLM Position:

BLM has authority to approve the proposed land exchange under Section 206 of the Federal Land Policy Management Act of 1976, after considering whether the exchange will 1) provide the opportunity to achieve better management of federal lands; 2) meet the needs of state and local residents and their economies; and 3) secure important objectives, including but not limited to, protection of fish and wildlife habitats, cultural resources, watersheds, and wilderness and aesthetic values. After careful analysis and consideration, which includes the preparation of an EIS, the BLM will be in a position to finalize its decision.

Contact:

Carol Kershaw, BLM Arizona State Office
602/650-0235

Denise Meridith, BLM Arizona State Director
602/650-0500



INC. ENVIRONMENTAL CONSULTANTS

343 South Scott Avenue • Tucson, Arizona 85701
(520) 325-9194 • FAX (520) 325-2033

Safford Copper Mine (F)
K

also copy to San Juan Mine (F)

October 4, 1996

Richard Beard
AZ. DEPARTMENT OF MINES AND
MINERAL RESOURCES
1502 W. Washington
Phoenix, Arizona 85007

**RE: ENVIRONMENTAL IMPACT STATEMENT FOR THE PROPOSED DOS POBRES/SAN
JUAN MINING PLAN OF OPERATIONS AND SAFFORD LAND EXCHANGE PROJECT**

Dear Mr. Beard:

I am writing to you on behalf of the BLM as part of their public scoping efforts for the above-referenced project. To ensure that adequate coordination efforts are made with both state and federal agencies such as yours, I am following up on an earlier notice (a BLM press release) about the project that was sent to your agency in August 1996.

The proposed project being analyzed in the EIS is described in the enclosed information sheet, with attached comment sheet and maps showing the locations of the lands proposed for mining and the lands proposed for exchange. This information was provided at the scoping meetings which were held on September 5, 10, and 11, 1996, in Safford, Tucson, and Phoenix, respectively. Please note that we had contacted your agency previously in December 1994, when the proposed project was a land exchange only. Since that time, however, the project has evolved into a Mining Plan of Operations with a land exchange alternative, with BLM as the lead agency and the Army Corps of Engineers as a cooperating agency in preparing the EIS. BLM is rescoping the project due to the significant changes in the Proposed Action.

As noted on the information sheet, the current public scoping period ends on October 12, 1996. If you have comments or concerns about the project, we hope you will submit them to the BLM address on the comment sheet as soon as possible. Should you have any questions about the project or the environmental review process, please feel free to contact me (Project Manager for the BLM's Third-Party contractor, SWCA, Inc., Environmental Consultants) or Mr. Tom Terry, BLM's Project Leader at (520) 428-4040.

Sincerely,

Tina Lee
Project Manager

cc: T. Terry, BLM, Safford DO w/o encl.
M. Blaine, COE, Tucson FO w/o encl.



DSR:\WP51\51-61700\AG-SCOP.LTR

INFORMATION SHEET

Safford Land Exchange and Dos Pobres/San Juan Mining Plan of Operations

What is the Safford Land Exchange and Dos Pobres/San Juan Mining Plan of Operations project?

Phelps Dodge Mining Company (PD) is planning to develop the Dos Pobres and San Juan copper ore bodies which are located primarily on private lands owned by PD. PD seeks to either acquire additional public lands in the vicinity of these ore bodies through a federal land exchange or utilize them for mining purposes as allowed under the General Mining Law of 1872. As part of the proposed exchange, PD also seeks to consolidate its existing land holdings in the Safford Mining District in support of long-range planning activities.

To this end, PD has submitted two proposals to the Safford District of the Bureau of Land Management for their consideration and action. The first is a land exchange to acquire approximately 17,000 acres of public lands adjacent to and surrounding PD's existing Dos Pobres, San Juan, and Lone Star properties. The second is a Mining Plan of Operations (MPO) to use a portion of the public lands that are proposed for exchange for mining and mining-related uses for development of the Dos Pobres and San Juan ore bodies.

Where is the project located?

The approximately 17,000 acres of public lands that Phelps Dodge has selected to acquire through the proposed land exchange are located northeast of Safford, Graham County, in the foothills and bajadas of the Gila Mountains. A portion of these lands, roughly 5,000 acres, is also identified for mining development in the MPO. The location of both the public lands selected for exchange (called selected lands) and the lands identified for mining is depicted on the display boards.

The approximately 5,200 acres of private lands that Phelps Dodge is offering to the public for the exchange (called the offered lands) are located in Graham, Pima, Cochise, Santa Cruz, Yavapai, and La Paz

counties, in areas that the BLM would like to maintain its long-term management presence. Seven of the 14 offered properties comprise the base package of offered lands. The remaining seven properties are optional, that is, any combination of these properties could be added to the base package as necessary to equalize the appraised values of the offered and selected lands.

The locations of both the base and optional offered lands are identified on the meeting display boards. Detailed maps of the selected and offered lands will be provided in the draft Environmental Impact Statement, a document described later in this pamphlet.

Why is the BLM considering this proposed project?

The BLM considers land exchange proposals on a case-by-case basis. The BLM is authorized to complete land exchanges under Section 206 of the Federal Land Policy Management Act (FLPMA) of 1976, after considering whether the exchange will 1) provide an opportunity to achieve better management of federal lands; 2) meet the needs of state and local residents and their economies; 3) secure important objectives, including but not limited to, protection of fish and wildlife habitats, cultural resources, watersheds, and wilderness and aesthetic values; and 4) comply with the Safford District Resource Management Plan, as amended.

For the mining component of the project, there are several federal laws and regulations that allow PD to exercise their mining rights through a BLM-approved MPO: the Mining Law of 1872, the Mining and Minerals Policy Act of 1970, the Federal Land Policy Management Act of 1976, and the National Materials and Minerals Policy Research and Development Act of 1980.

(Continued over )

What is the National Environmental Policy Act (NEPA)?

NEPA is an Act passed by Congress in 1970 that requires public review and involvement in the analysis of potential environmental impacts that would result from a federal action. The land exchange, BLM's authorization of the MPO, and the U.S. Army Corps of Engineers' issuance of a Section 404 permit (described below) would be federal actions subject to NEPA. NEPA requires that the impacts resulting from the land exchange and mining under the MPO be disclosed to the public through a public environmental document, such as an Environmental Impact Statement (EIS). Preparation of an EIS is the responsibility of the federal agency making the decision (in this case, the BLM), with the U.S. Army Corps of Engineers participating as a cooperating agency.

What is the U.S. Army Corps of Engineers' role in this project?

The U.S. Army Corps of Engineers (COE) administers the Clean Water Act Section 404 permitting program in Arizona. Congress enacted the Clean Water Act to "restore and maintain the chemical, physical and biological integrity of the Nation's waters." Section 404 of the Clean Water Act regulates the discharge of dredged or fill material into waters of the U.S. and establishes a permit program to ensure compliance with environmental requirements.

Because some of the washes that traverse the lands that PD plans to mine are likely to be considered waters of the U.S., PD is required to obtain a Section 404 permit from the COE in order to implement the mining activities proposed in the MPO. Prior to issuing this permit, the COE must also analyze potential impacts of these activities and is a cooperating agency with the BLM in preparing the EIS. It should be noted that the COE has no jurisdiction over the proposed exchange.

What issues will be considered in the EIS ?

Issues and concerns that are typically analyzed in an EIS include, but are not limited to: vegetation, wildlife, threatened and endangered species, water and air resources, socioeconomic and community

resources, cultural resources, and mineral resources. Any other substantive issues for this project that arise during the public comment period will be considered in the EIS.

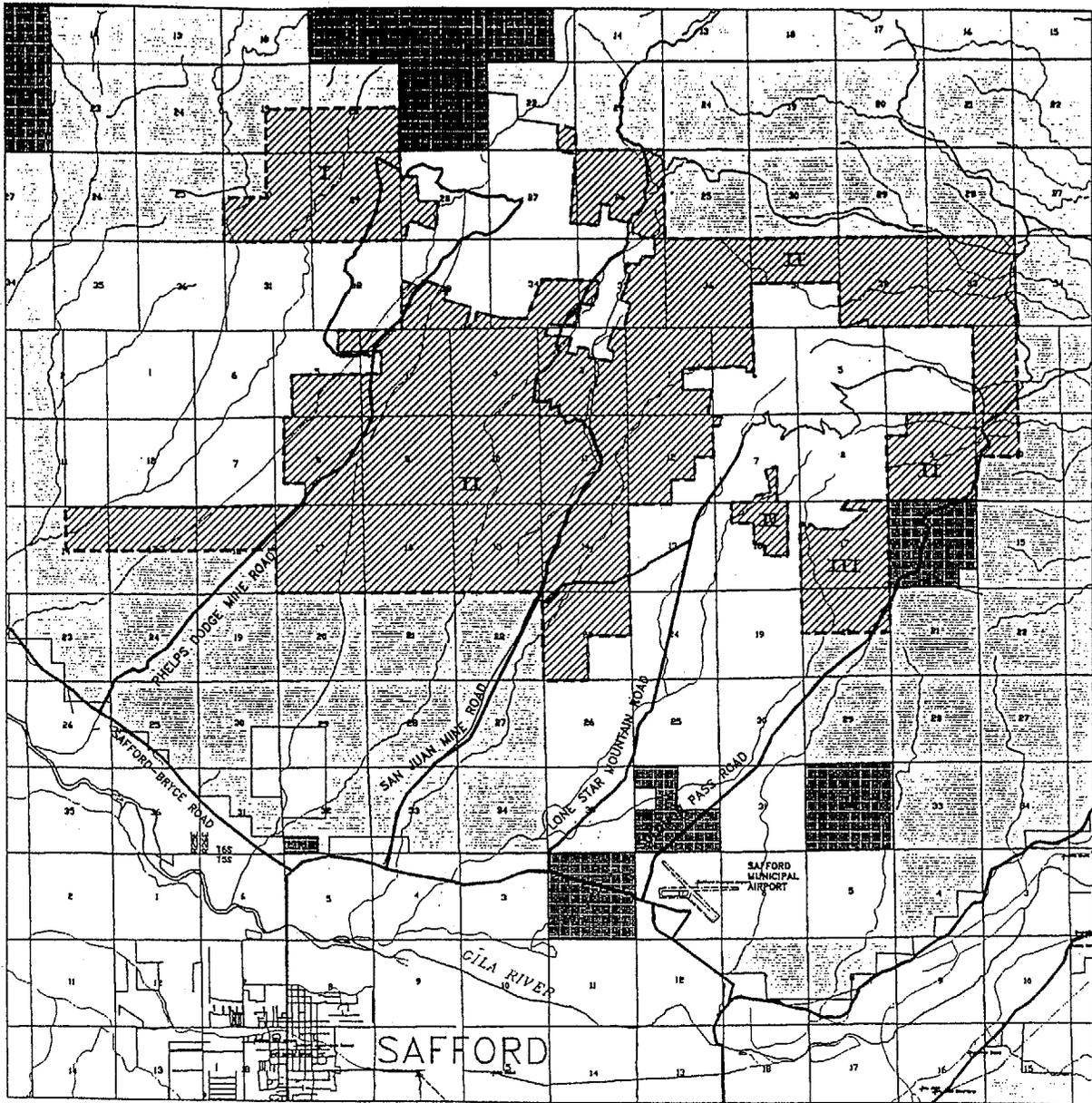
Issues to be analyzed in the EIS are identified by several sources: the general public, including private citizens, elected officials, and special interest groups; Indian tribes; the lead and cooperating federal agencies; an interdisciplinary team composed of agency resource specialists; and other federal and/or state agencies. The BLM and COE seek input from these sources on their concerns about the project throughout the scoping process.

How can I comment on the project?

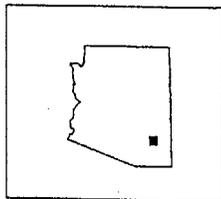
You have two major opportunities to comment on this project during the NEPA analysis process: 1) during this initial public scoping period; and 2) during the public review/comment period when the Draft EIS is completed. Comments can be submitted in person or in writing at one of the three public meetings being held in Safford, Tucson, and Phoenix, or mail your comments to the BLM by October 12, 1996, using the pre-addressed comment forms (attached). Comments will be compiled and all substantive comments will be considered in the Draft EIS. When the Draft EIS is completed, you will have the opportunity to review it and make additional comments at that time. There are also public review and protest/appeal periods for the Final EIS and the Records of Decision, respectively. A display board depicting the NEPA process outlines these public comment periods and gives projected dates for completion of the Draft and Final EISs.

Contact for more information: Tom Terry, BLM Project Leader, Safford District, (520) 428-4040 or Tina Lee, SWCA Environmental Consultants, (520) 325-9194.

Se puede obtener información acerca de la propuesta en español, llame a Scott Evans del Departamento de Administración de Tierras, (520) 428-4040.



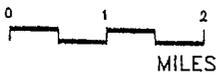
KEY



LOCATION MAP



Scale



- DRAINAGES
- ROAD
- ROAD (4WD)

- BLM LAND
- STATE LAND
- PRIVATE LAND
- SELECTED LAND

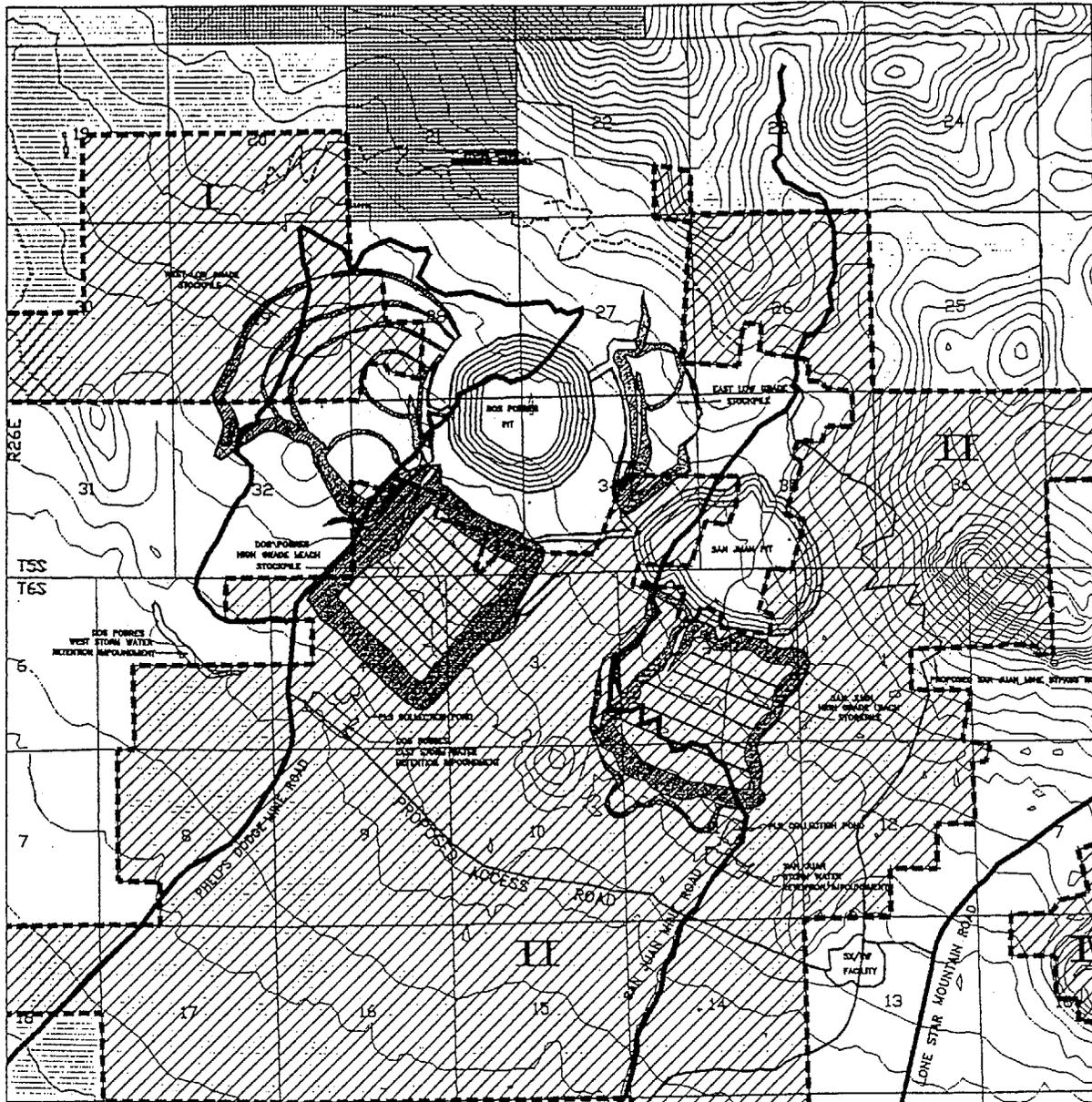


**BLM-PHELPS DODGE SAFFORD
LAND EXCHANGE/MPO/404 PERMIT
ENVIRONMENTAL IMPACT STATEMENT**

FIGURE 1. SELECTED LANDS LOCATION MAP SHOWING LAND OWNERSHIP.

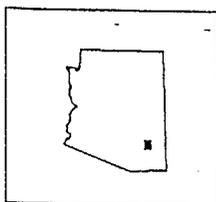


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FILE NAME: info	CHECKED BY TL	REV. DATE 7-10-96
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KEY

LOCATION MAP

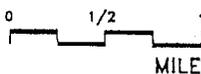


-  CONTOUR
-  EXISTING ROAD
-  PROPOSED ROAD
-  DIVERSION CHANNEL

-  BLM
-  STATE
-  PRIVATE
-  SELECTED LAND BOUNDARY



Scale



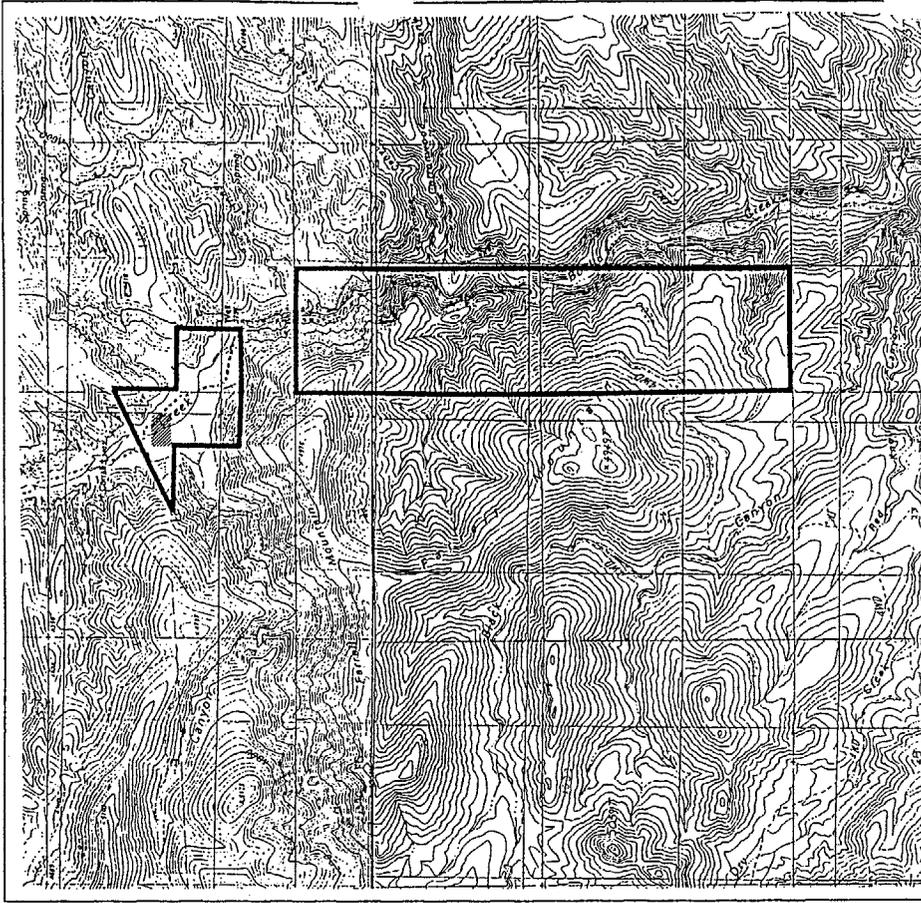
CONTOUR INTERVAL 100 FEET



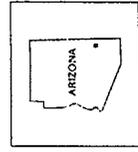
**BLM-PHELPS DODGE SAFFORD
LAND EXCHANGE/MPO/404 PERMIT
ENVIRONMENTAL IMPACT STATEMENT**

FIGURE 3. MINING PLAN OF OPERATIONS FOR SAN JUAN/
DOS POBRES MINES.

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	FILE NAME: DFTI D:\ACARL\STP\ENV\IMP\MAP_JONES.MXD	CHECKED BY TL	REV. DATE 7-17-96



LEGEND
 5-ACRE EXCLUSION AREA



LONE STAR MTN. / BONITA SPRING
 10/14/1988

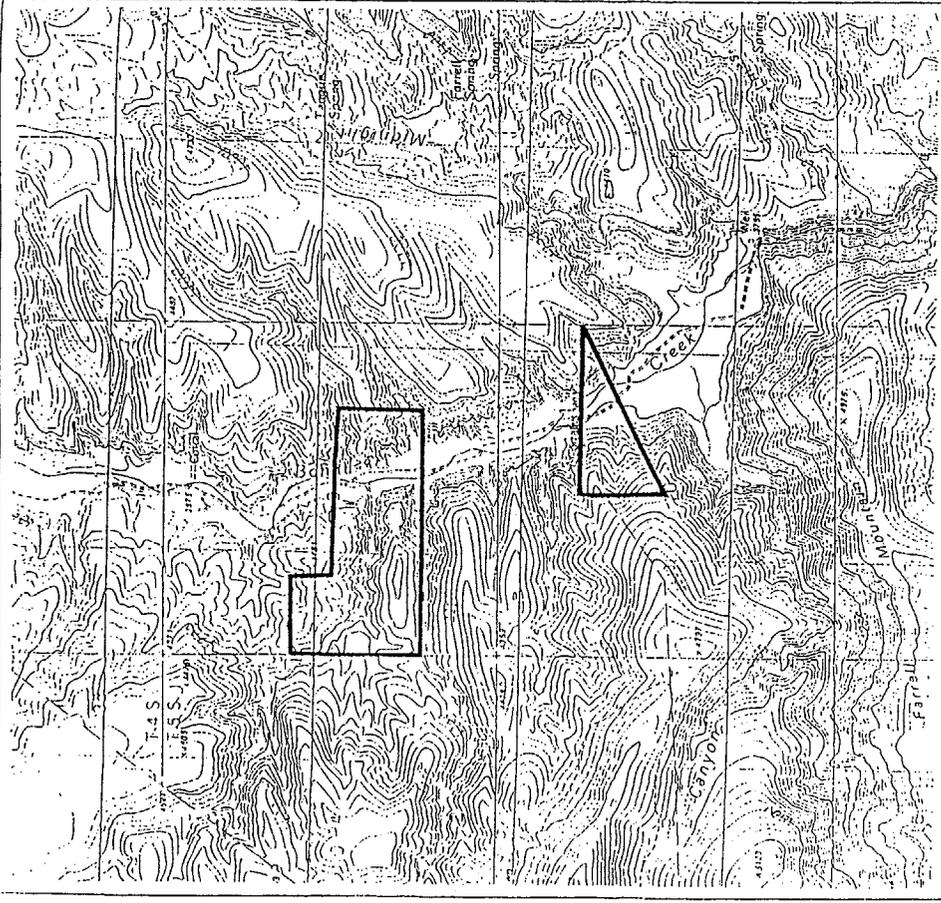
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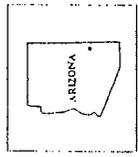
SAFFORD LAND EXCHANGE EIS

FIGURE 1a. BONITA CREEK PARCELS - CURTIS PROPERTY

	DATE	10/14/1988
	FILE NAME	SAFFORD EIS
DATE	10/14/1988	10/14/1988



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 FEET
 CONTOUR INTERVAL 40 FEET

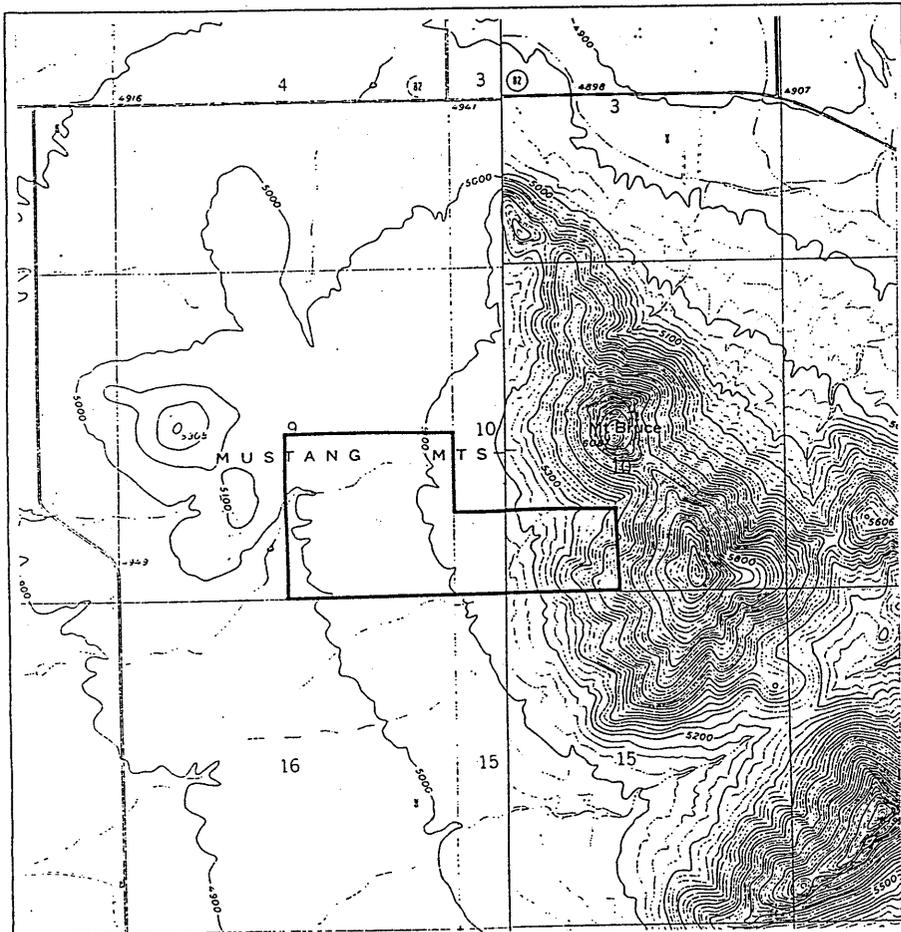


BONITA SPRING
 10/14/1988

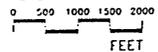
SAFFORD LAND EXCHANGE EIS

FIGURE 1b. BONITA CREEK PARCELS - AMADO PROPERTY

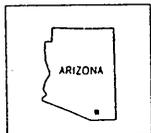
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	FILE NAME	SAFFORD EIS
DATE	10/14/1988	10/14/1988



Scale



CONTOUR INTERVAL 40 FEET

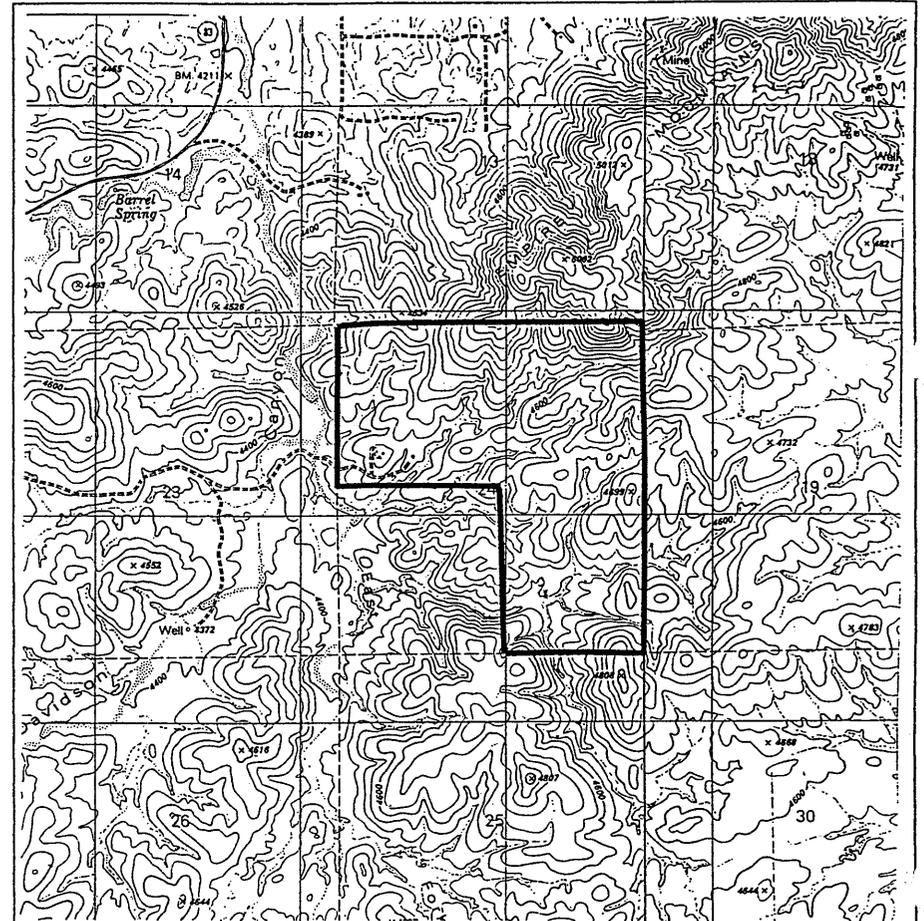


MUSTANG MTNS./
ELGIN
1958

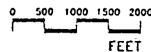
SAFFORD LAND EXCHANGE EIS

FIGURE 2. SCHOCK PARCEL

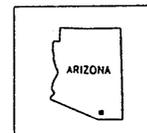
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	FILE NAME	CHECKED BY	REV. DATE



Scale



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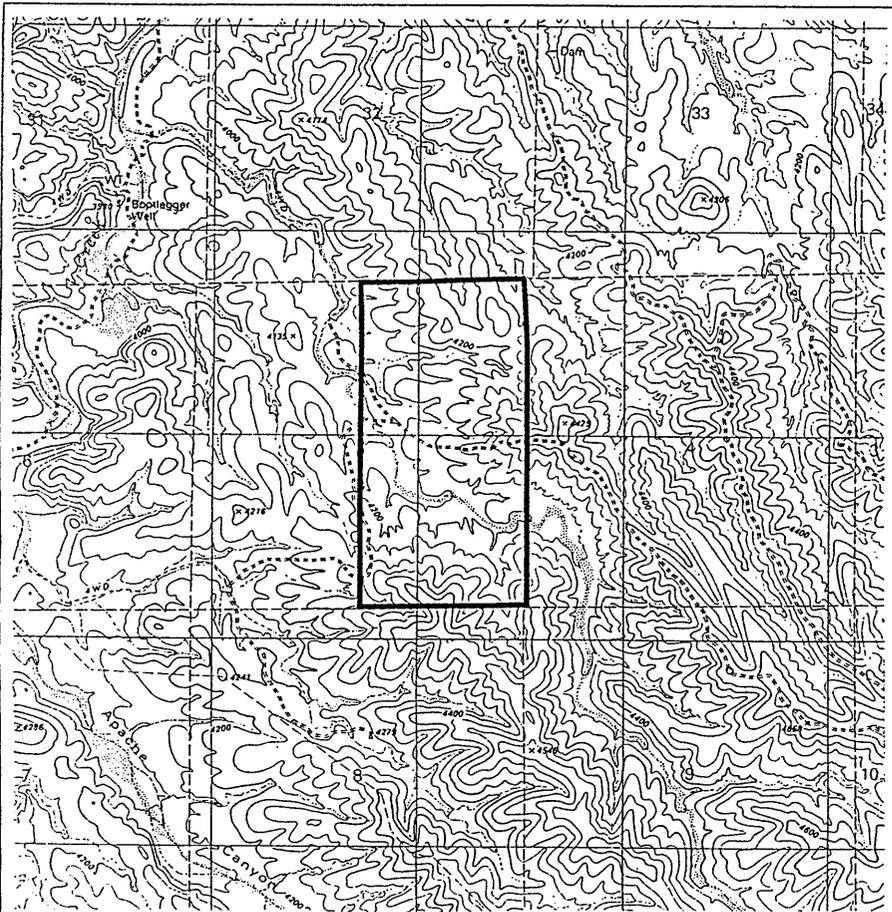


EMPIRE RANCH
1981

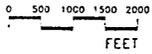
SAFFORD LAND EXCHANGE EIS

FIGURE 3. DAVISON RANCH PARCEL

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	FILE NAME	CHECKED BY	REV. DATE



Scale



CONTOUR INTERVAL 40 FEET



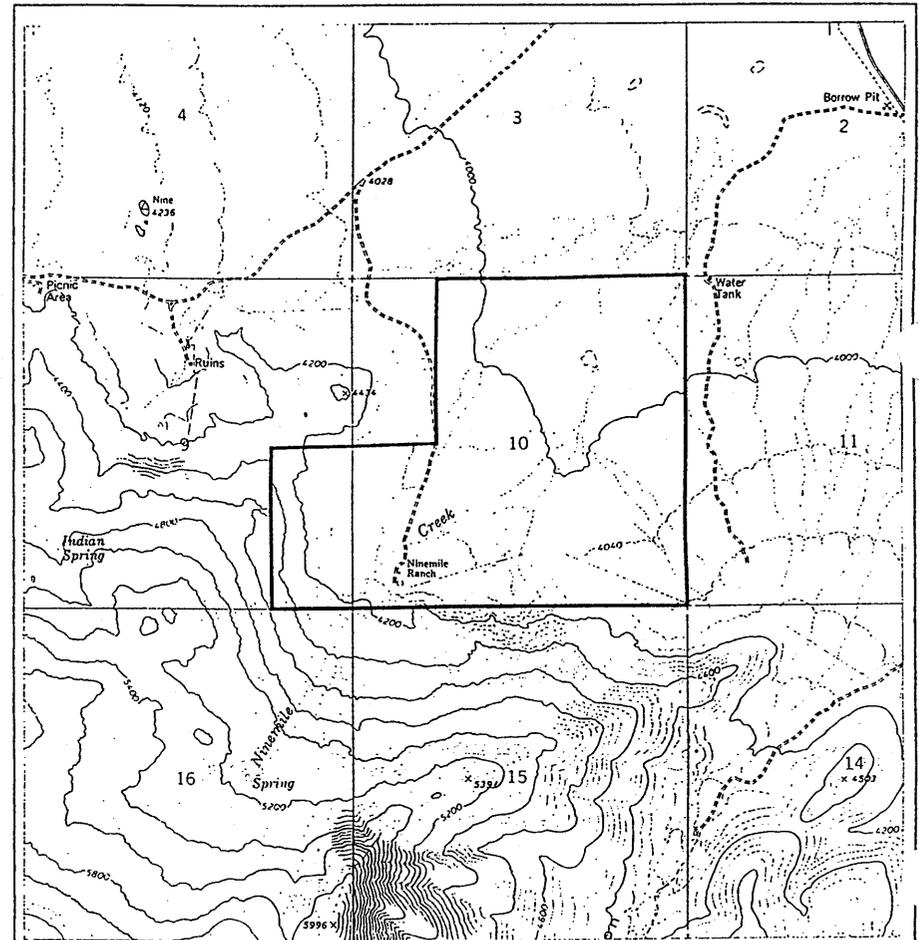
THE NARROWS

1981

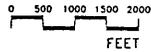
SAFFORD LAND EXCHANGE EIS

FIGURE 4. FEULNER PARCEL

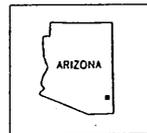
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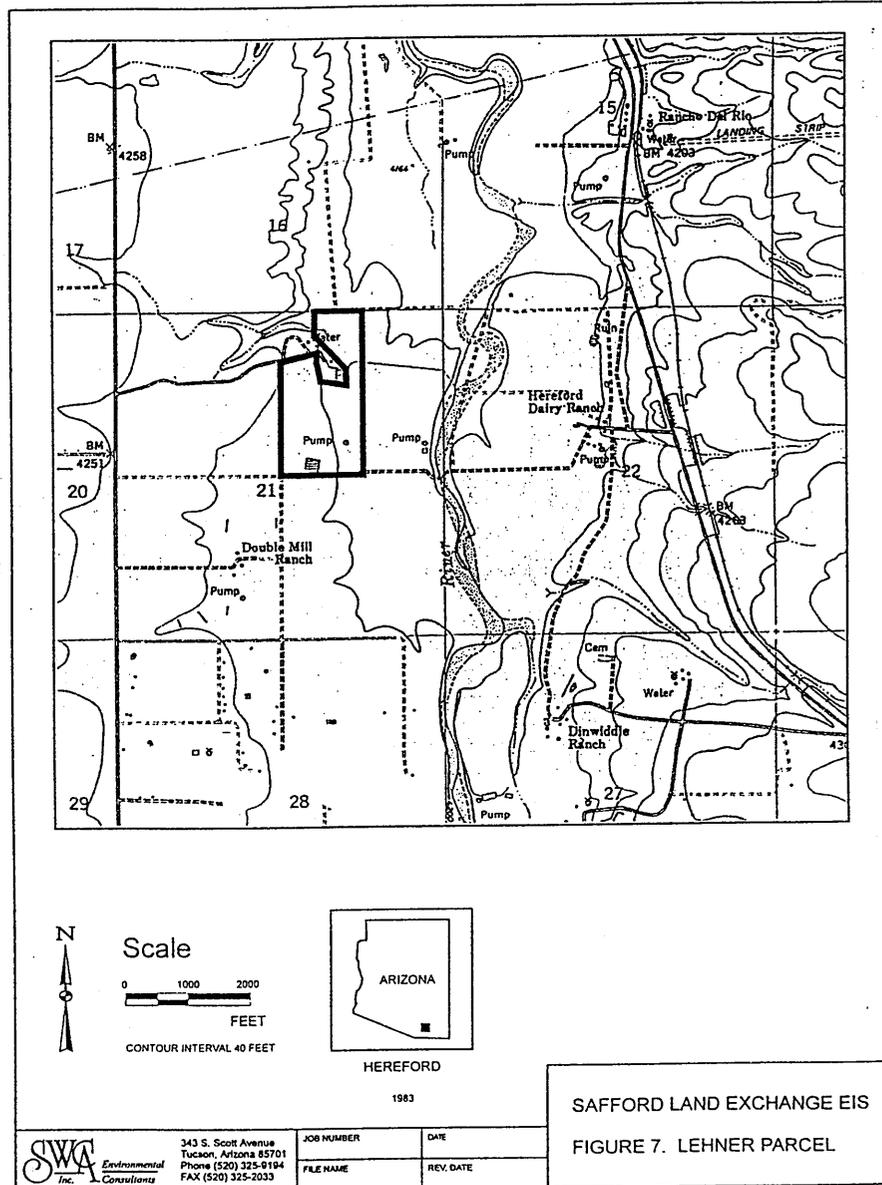
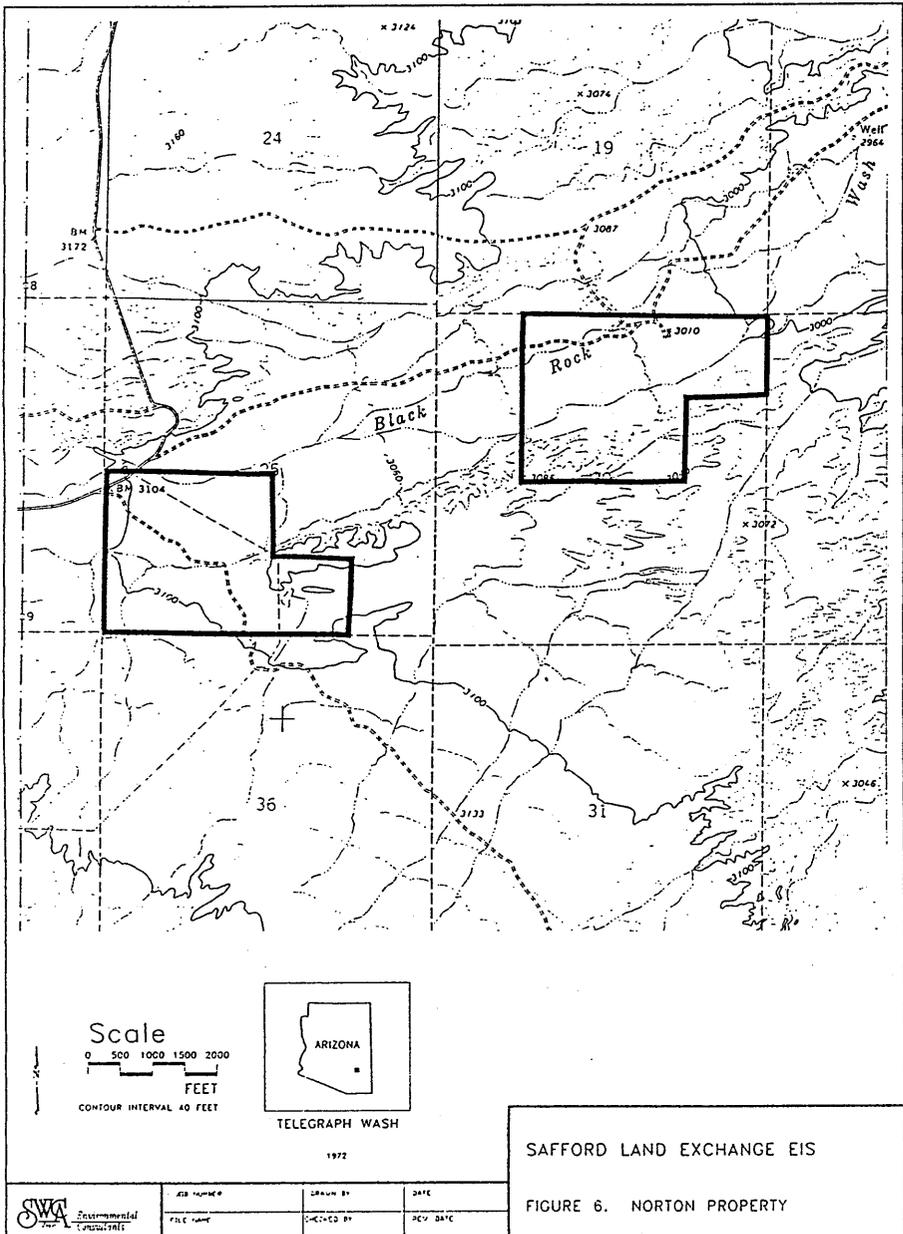
BOWIE MTH. NORTH

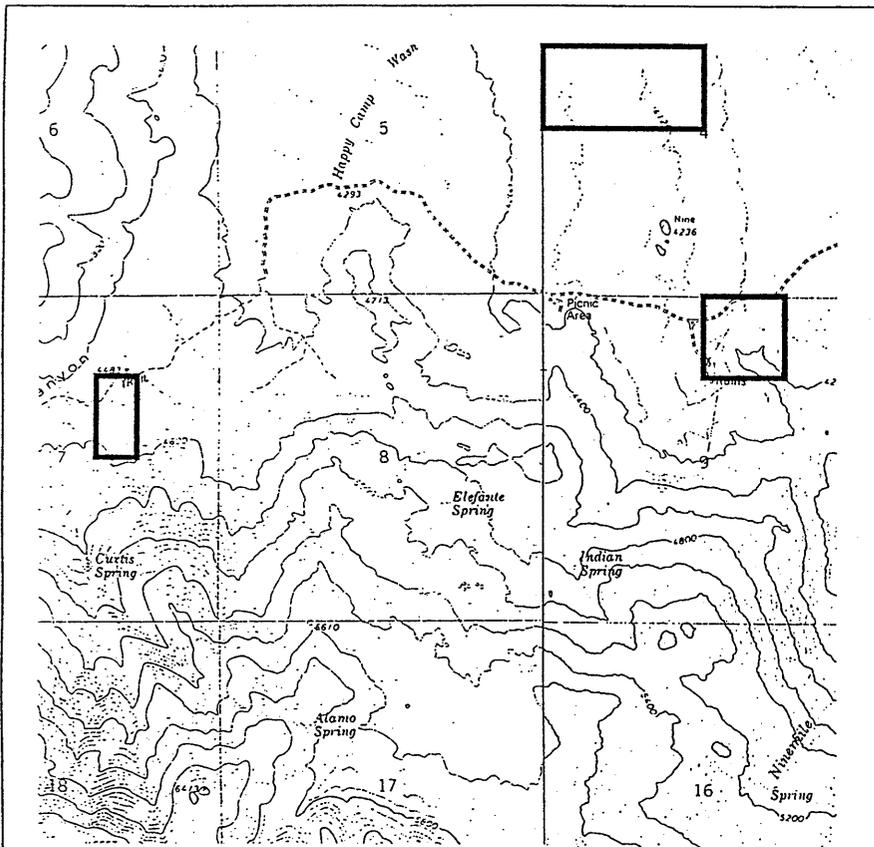
1979

SAFFORD LAND EXCHANGE EIS

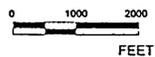
FIGURE 5. MUSNICKI PARCEL

	JOB NUMBER	DRAWN BY	DATE
	FILE NAME	CHECKED BY	REV. DATE





Scale



CONTOUR INTERVAL 40 FEET



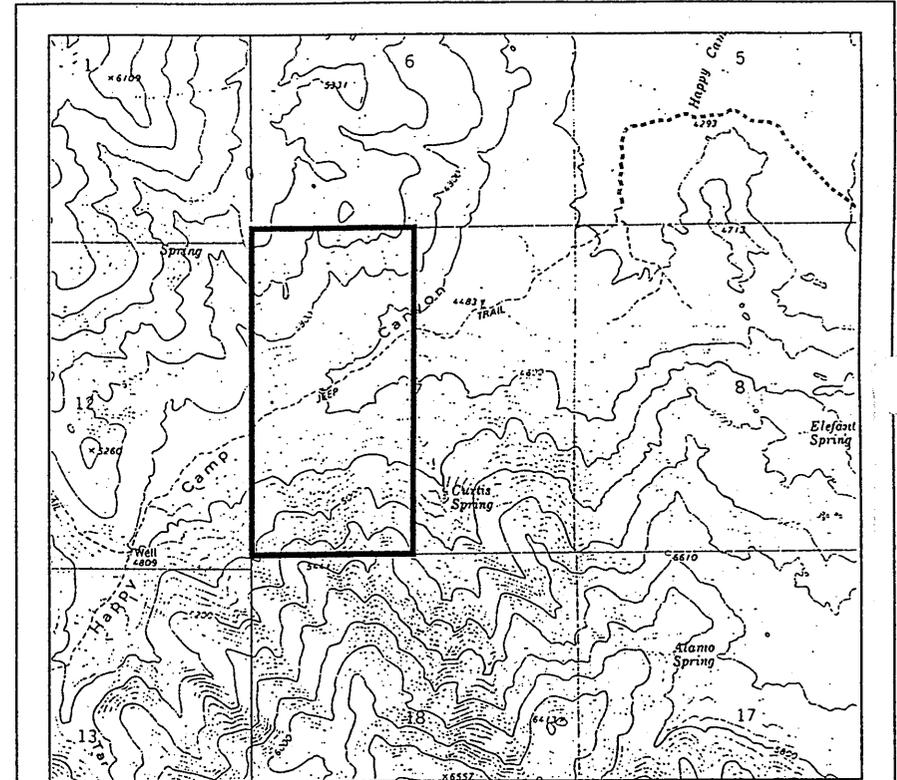
DOS CABEZAS/
BOWIE MTN. NORTH
1978/1979

SAFFORD LAND EXCHANGE EIS

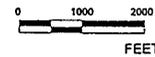
FIGURE 8. FREELAND PARCELS

SWA Environmental Consultants
343 S. Scott Avenue
Tucson, Arizona 85701
Phone (520) 325-0194
FAX (520) 325-2033

JOB NUMBER	DATE
FILE NAME	REV. DATE



Scale



CONTOUR INTERVAL 40 FEET



DOS CABEZAS

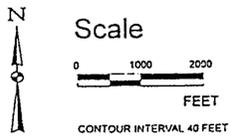
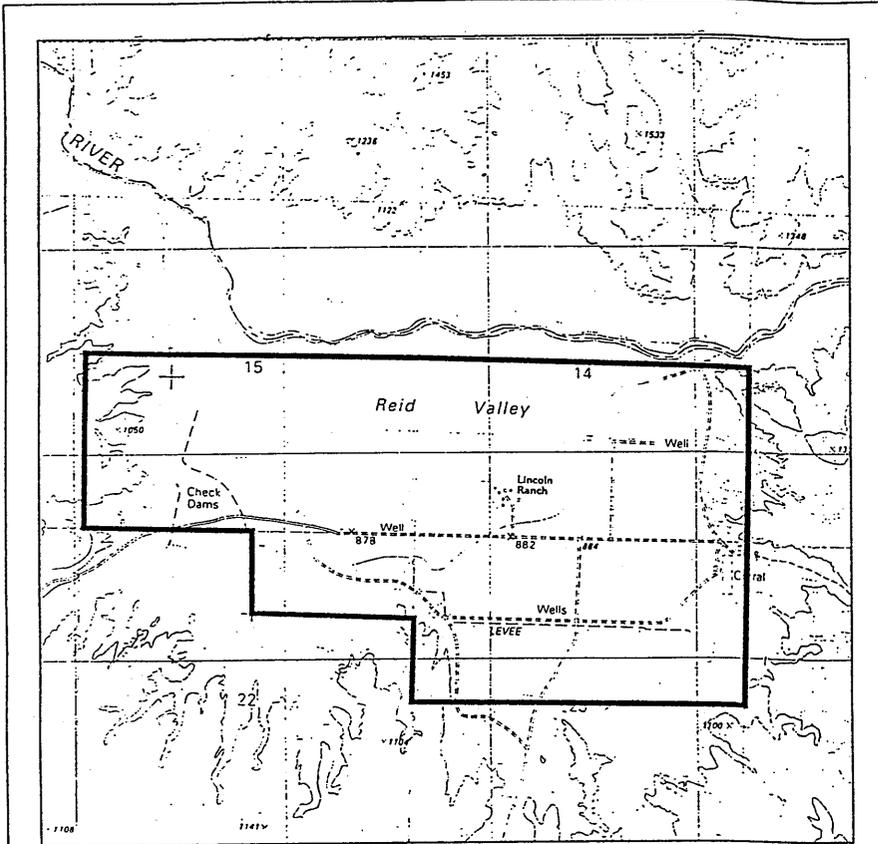
1978

SAFFORD LAND EXCHANGE EIS

FIGURE 9. BUTLER-BORG PARCEL

SWA Environmental Consultants
343 S. Scott Avenue
Tucson, Arizona 85701
Phone (520) 325-0194
FAX (520) 325-2033

JOB NUMBER	DATE
FILE NAME	REV. DATE



REID VALLEY

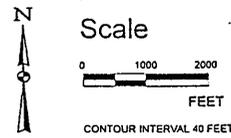
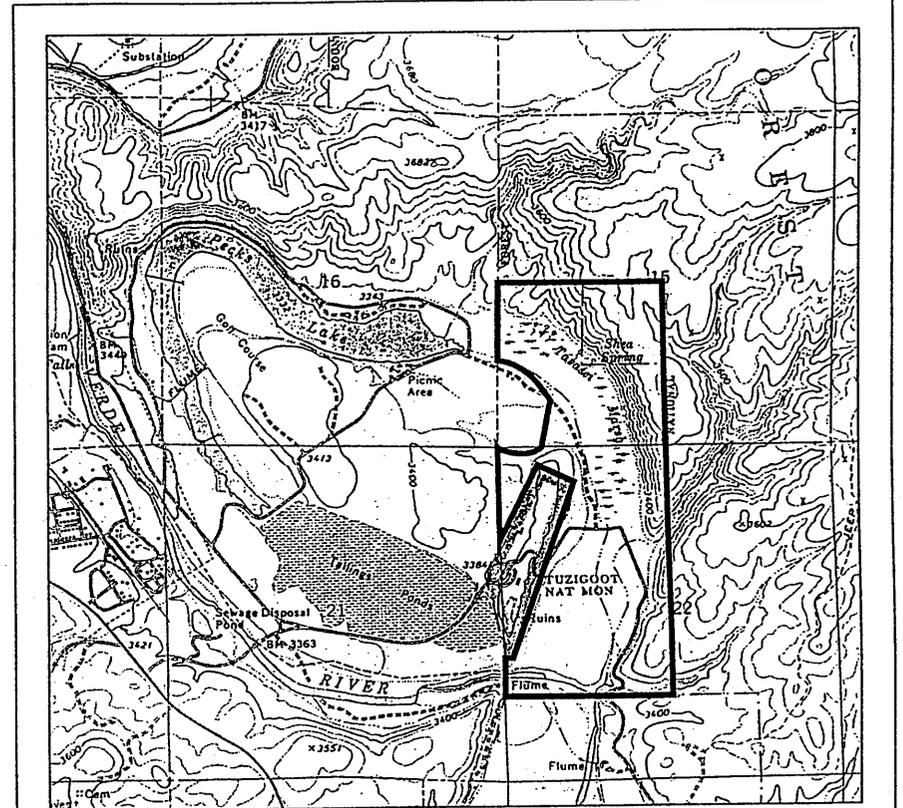
1990

SAFFORD LAND EXCHANGE EIS

FIGURE 10. LINCOLN RANCH PARCEL

SWA Environmental Consultants
 343 S. Scott Avenue
 Tucson, Arizona 85701
 Phone (520) 325-9194
 FAX (520) 325-2033

JOB NUMBER	DATE
FILE NAME	REV. DATE



REID VALLEY

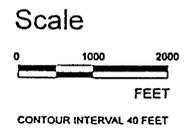
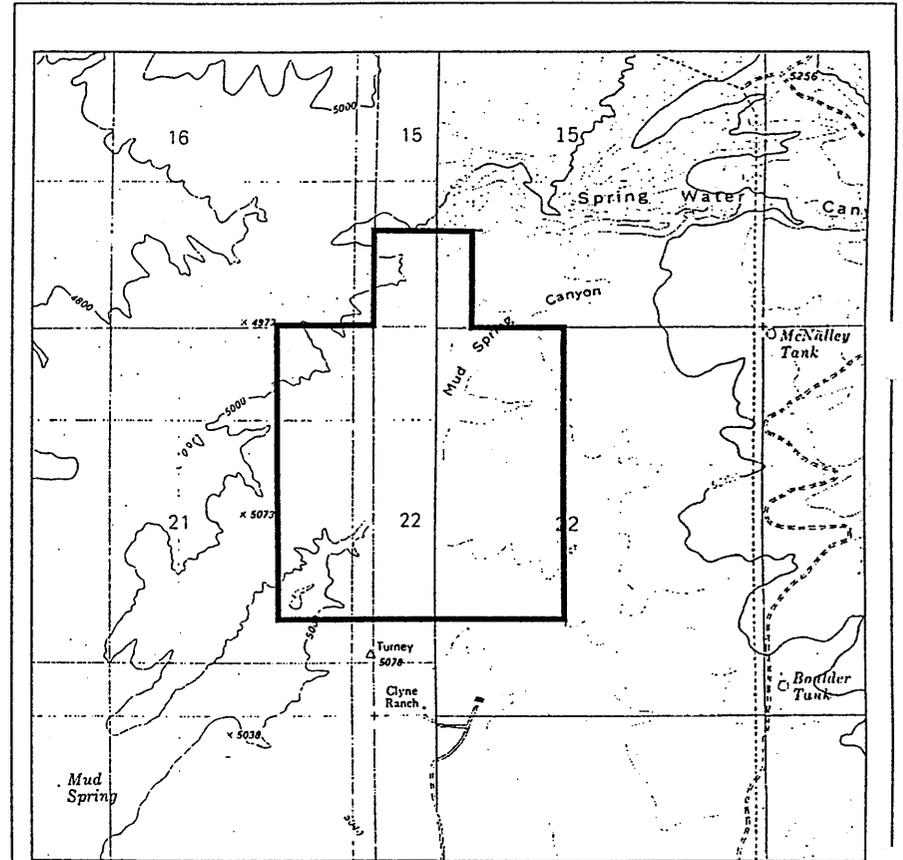
1990

SAFFORD LAND EXCHANGE EIS

FIGURE 11. TAVASCI PARCEL

SWA Environmental Consultants
 343 S. Scott Avenue
 Tucson, Arizona 85701
 Phone (520) 325-9194
 FAX (520) 325-2033

JOB NUMBER	DATE
FILE NAME	REV. DATE



SPRING WATER CANYON/
APACHE PEAK
1981/1973

SAFFORD LAND EXCHANGE EIS

FIGURE 12. CLYNE II PARCEL

	343 S. Scott Avenue Tucson, Arizona 85701 Phone (520) 325-9194 FAX (520) 325-2033	JOB NUMBER	DATE
		FILE NAME	REV. DATE

Postage
Required

Margaret Jensen, Gila Resource Area Manager
Bureau of Land Management
Safford District Office
711 14th Avenue
Safford, Arizona 85546

RE: Safford Land Exchange and MPO

P. D. SAFFORD BRANCH (1)



Safford Branch, P. O. Box 151, Safford, Arizona 85548

STATE MINE INSPECTOR

SEP 04 1984

STOP

August 31, 1984

Mr. James H. McCutchan
State Mine Inspector
State of Arizona
705 Capitol Building, West Wing
Phoenix, Arizona 85007

Dear James:

Phelps Dodge Corporation has suspended main-
tenance operations at the Safford Branch legal I.D.
No. 02-00299. Maintenance ceased on August 29, 1984
and a limited number of employees will remain on
the property in support of the Small Mines Division.

Yours truly,

S. Soriano

S. Soriano
Safety Inspector

SS:lw

RECEIVED
OCT 02 1984
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Send

P.D. SAFFORD BRANCH (E)



STATE MINE INSPECTOR

Office of State Mine Inspector

SEP 04 1984

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

Stop

RECEIVED
OCT 02 1984
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303 DEPT. MINERAL RESOURCES
submitting this written notice to the Arizona State Mine Inspector
(705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our
intent to start stop (please circle one) a mining operation.

COMPANY NAME Phelps Dodge Corporation

CHIEF OFFICER S. C. Holmes

COMPANY ADDRESS P.O. Box 151, Safford, AZ 85548-0151

COMPANY TELEPHONE NUMBER 428-6900

MINE OR PLANT NAME Safford Branch

MINE OR PLANT LOCATION (including county and nearest town, as well
as directions for locating by vehicle)

12 miles north of Safford, AZ

TYPE OF OPERATION Underground PRINCIPAL PRODUCT Development

STARTING DATE November, 1974 CLOSING DATE August 29, 1874

DURATION OF OPERATION _____

PERSON SENDING THIS NOTICE S. Soriano

TITLE OF PERSON SENDING THIS NOTICE Safety Inspector

DATE NOTICE SENT TO STATE MINE INSPECTOR August 28, 1984

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR
SUSPENDING OPERATIONS: When mining operations are commenced in
any mine or when operations therein are permanently suspended, the
operator shall give written notice to the inspector at his office
prior to commencement or suspension of operations.



P.O. SAFFORD

K on MS

ARIZONA DEPARTMENT OF HEALTH SERVICES

Division of Environmental Health Services

RECEIVED

APR 4 1983

DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

BRUCE RABBITT, Governor
JAMES E. SARN, M.D., M.P.H., Director

JOINT NOTICE OF PROPOSED ACTION

by the

U.S. Environmental Protection Agency
Region 9 [M-5]
215 Fremont Street
San Francisco, CA 94105
415/974-7410

State of Arizona
Department of Health Services
1740 West Adams Street - Room 200
Phoenix, AZ 85007
602/255-1277

On Application for National Pollutant Discharge Elimination System (NPDES) Permit to Discharge Pollutants to Waters of the United States

On Application for Certification for Compliance with Applicable Effluent Limitations and Appropriate Requirements of the State of Arizona

The Environmental Protection Agency (EPA), Region 9, San Francisco, California, and the Arizona Department of Health Services (ADHS) are jointly issuing the following notice of proposed action under the Clean Water Act (CWA).

The Environmental Protection Agency, Region 9, San Francisco, California, has received a complete application for a National Pollutant Discharge Elimination System (NPDES) permit and has prepared tentative determinations regarding the permit.

On the basis of preliminary review of the requirements of the Clean Water Act, as amended, and implementing regulations, the Regional Administrator, Region 9, Environmental Protection Agency, proposes to issue an NPDES permit to discharge to the following applicant, subject to certain effluent limitations and special conditions.

Public Notice No. 3-83-AZ

April 4, 1983

Phelps Dodge Corporation
Safford Branch
P. O. Box 151
Safford, Arizona 85546
NPDES Permit No. AZ0022331

The applicant operates a copper mine located approximately 24 kilometers (15 miles) north of Safford, Graham County, Arizona. The proposed discharge will consist of mine drainage water. The discharge, at latitude 32° 58' 02" N, longitude 109° 41' 41" W, will be to Watson Wash, tributary to the Gila River. The protected uses for the Gila River (New Mexico to San Carlos Lake) are Partial Body Contact, Aquatic Life and Wildlife, Agriculture Irrigation and Agriculture Livestock Watering. The permit contains limitations for copper, zinc, lead, mercury, chromium, total suspended solids, and pH. This permit, as proposed, will expire April 30, 1988.

The Department of Health Services is An Equal Opportunity Affirmative Action Employer. All qualified men and women, including the handicapped, are encouraged to participate.

The State of Arizona is considering a request to certify the discharge described above, pursuant to Section 401 of the Clean Water Act. The certification will set forth any limitations and monitoring requirements necessary to assure compliance with water quality standards under Section 303, areawide waste treatment management plans under Section 208(e), effluent limitations under Sections 301 and 302, standards of performance under Section 306, or prohibitions, effluent standards or pretreatment standards under Section 307 of the CWA, and any other appropriate requirement of State law.

The State may certify a draft permit and specify conditions which are more stringent than those in the original draft permit, where the State finds such conditions necessary to meet the requirements of the CWA. For each more stringent condition, the certifying State agency shall cite the CWA or State law references upon which that condition is based. Review of appeals of limitations and conditions attributable to State certification shall be made through the applicable procedures of the State.

The Administrative Record, which includes the application, draft permit conditions and other relevant documents, is available for public review Monday through Friday from 9:00 a.m. to 4:00 p.m. at the EPA address below. A copy of the draft permit and other pertinent documents may be obtained by calling or writing to the addresses below.

Persons wishing to comment upon or object to the proposed determinations or request a public hearing pursuant to 40 CFR 124.12 should submit their comments or request in writing within thirty (30) days from the date of this notice, either in person or by mail to:

U.S. Environmental Protection Agency
Region 9 [M-5]
Attn: GPA Permits Clerk
215 Fremont Street
San Francisco, CA 94105
Telephone: 415/974-7410

State of Arizona
Department of Health Services
Attn: BWQC Permits Unit
1740 West Adams Street - Room 200
Phoenix, AZ 85007
Telephone: 602/255-1277

All comments or objections submitted within thirty (30) days from the date of this notice will be considered in the formulation of the final determinations regarding the application. If the response to this notice indicates a significant degree of public desire for a public hearing, the Regional Administrator shall hold one in accordance with 40 CFR 124.12. A public notice of such hearing will be issued at least thirty (30) days prior to the hearing. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The permit will become effective thirty-three (33) days following the date of mailing by the EPA of the final permit. If no comments requested a change in the draft permit, the permit will become effective three (3) days from the date of mailing.

A request for an evidentiary hearing may be submitted to the Grants and Permits Administration Clerk, [M-5], within thirty-three (33) days following the mailing of the final determination, in accordance with 40 CFR 124.74. If granted, applicable provisions of the permit will be stayed pending the hearing.

Please bring the foregoing notice to the attention of all persons you know would be interested in this matter.



INTRODUCTION

This inspection is based on an investigation made pursuant to clause (1) of Section 4 of the Federal Metal and Nonmetallic Mine Safety Act (80 Stat. 772).

A State Plan was in effect in Arizona during this investigation.

Cecil P. Gay, shift boss, age 44, SSN 526-38-3386, was fatally injured at approximately 5:45 p.m., December 28, 1975, when he was struck on the back of the head and neck by a falling object. Gay was standing on the top deck of the Galloway stage suspended in the shaft.

Gay, survived by his wife and five dependent children, had been employed by the Cementation Company of America, Incorporated, for 10 months as a shift boss. He had approximately 20 years of mining experience at various jobs, including several years at shaft sinking operations.

The Tucson field office personnel of the Mining Enforcement and Safety Administration were notified of the accident at 7 p.m., December 28, 1975, by a deputy State mine inspector. An investigation was started the same day. Information for the report was obtained from an inspection of the accident site and by interviewing company officials and employees.

GENERAL INFORMATION

The Safford Branch Shaft No. 2, part of a new mine being developed 11 miles northwest of Safford, Arizona, was owned by the Phelps Dodge Corporation. S. C. Holmes was General Superintendent.

The No. 2 shaft was being sunk by the Cementation Company of America, Incorporated. The 25-foot finished diameter circular shaft had been sunk 1419 feet utilizing a three-deck Galloway stage. A water ring was being installed on the 1380 foot level at the time of the accident.

Operating officials were:

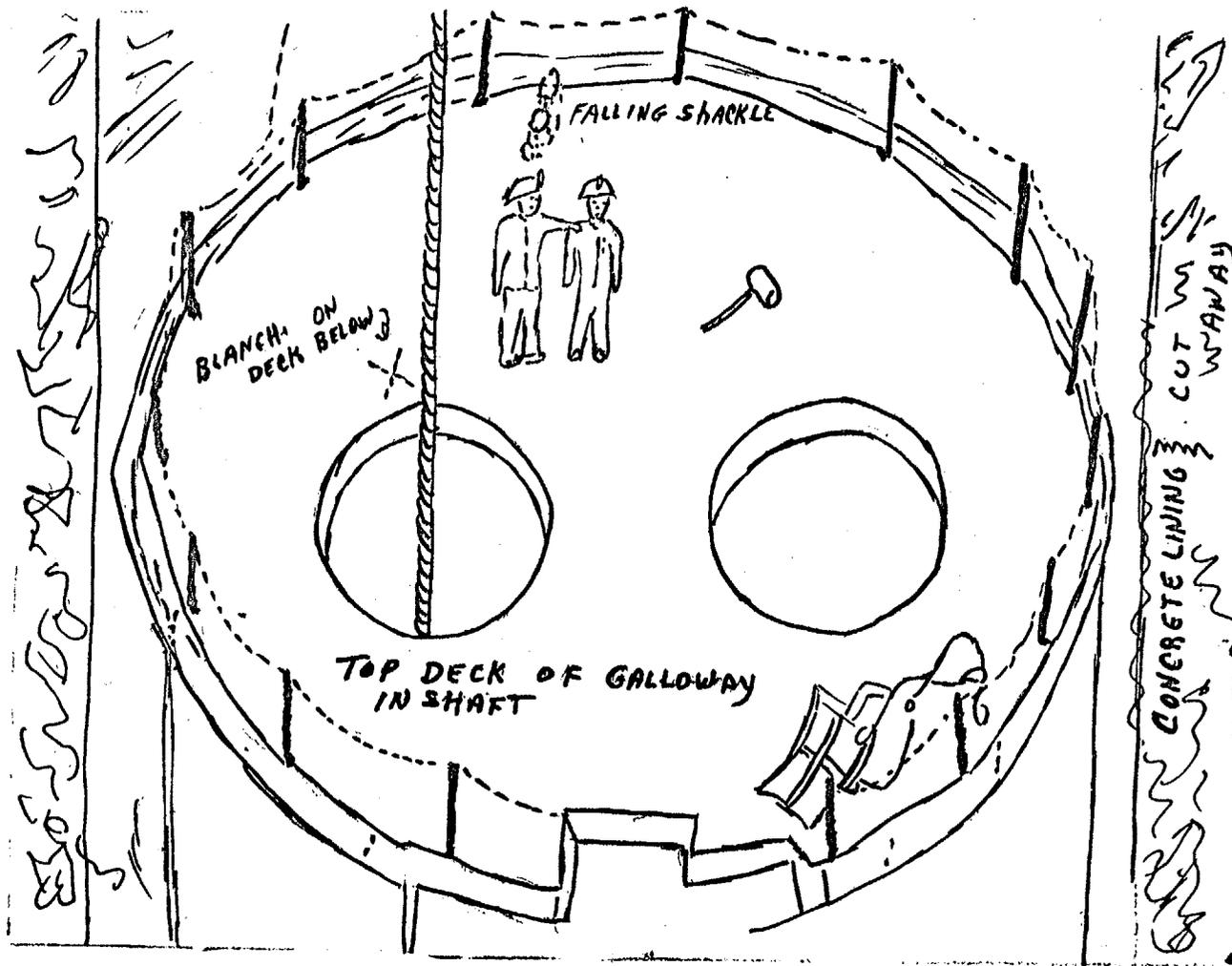
J. G. S. Hynd, Western Regional Manager
W. O. Henderson, Area Manager
Peter Gillett, Project Manager
C. McDonough, Project Superintendent

Eighty employees worked at the mine three 8-hour shifts a day, seven days a week.

Participating in the investigation were:

Cementation Company of America, Incorporated

W. O. Henderson, Regional Director
C. McDonough, Project Superintendent
Dennis Blanchette, Assistant Superintendent



FATAL SHAFT-SINKING (FALL-OF-MATERIAL)
ACCIDENT
Shaft No. 2 (sinking operation)
Cementation Company of America,
Safford, Arizona
December 28, 1975

Phelps Dodge Corporation

S. Soriano, Safety Engineer

Arizona State Mine Inspection Department

Pat Miranda, Acting Chief Deputy State Mine Inspector

John Taylor, Deputy State Mine Inspector

Ignacio Benitez, Deputy State Mine Inspector

Mining Enforcement and Safety Administration

Chester A. Pascoe, Metal and Nonmetal Mine Inspector

Vernon R. Gomez, Metal and Nonmetal Mine Inspector

A Federal Health and Safety inspection was completed at this mine October 23, 1975.

PHYSICAL FACTORS INVOLVED

The Safford Branch, No. 2 shaft was a 25-foot diameter shaft, serviced by a double drum hoist, with two sinking buckets. Work in the shaft was performed from a Galloway stage, a three-deck platform suspended near the bottom of the shaft. The normal work procedure required that employees should not work on the top deck of the Galloway, because overhead protection is not provided between the top deck and the collar of the shaft. The shaft was 1419 feet deep and the top of the Galloway was positioned at 1380 feet.

The collar of the shaft was provided with two steel doors which opened to the front and were kept closed except when hoisting and lowering men and material.

DESCRIPTION OF ACCIDENT

Cecil P. Gay (victim), reported for work at 4 p.m., December 28, 1975, to perform his duties as shift boss. The evening shift underground crew went to their designated work areas at the 2,355 station (elevation designation) of the shaft. Larry Parent, miner, went with Gay to install the water ring around the perimeter of the shaft, 22 feet above the sill of the 2355 station. Work was proceeding normally. Shaft sinking operations were not in progress during this period; they had been temporarily stopped because of other construction work. At 5:45 p.m., Gay was standing on the top deck of the Galloway with Parent, waiting for two sections of the water ring to be lowered from the surface. The top lander had closed the shaft doors immediately after the hoistman had raised the No. 1 sinking bucket above the collar. The water ring sections were secured to the eye on the bottom of the No. 1 bucket with 3/4-inch shackles and 1/2-inch cable slings. The bucket was hoisted to a higher position in the headframe for clearance and the shaft doors were reopened. The top lander gave a release signal for the No. 1 side, and the hoistman, on receiving a signal to hoist No. 2 bucket to the collar, raised the bucket to a position level with the

top deck of the Galloway. He then clutched in the No. 1 side of the two-drum hoist to counterbalance the buckets and was preparing to lower the No. 1 bucket with the water ring sections when the accident occurred.

Parent stated that Gay was standing next to him with his hand on his shoulder when he (Parent) heard something hit and Gay fell backwards away from him. He saw a 3/4-inch shackle, which he had not noticed before, resting on the Galloway top deck and thought that perhaps it was the object which struck Gay. He immediately called for help. Dennis Blanchette, assistant superintendent, was on the second deck of the Galloway, talking on the intercom to Steve Mesich, top lander, on the surface, when he heard Parent shout. Blanchette gave the hoistman the 9-bell emergency signal, followed by station signals. He ordered Mesich to send down a stretcher and call for the ambulance. The stretcher was sent down with the water ring sections at approximately 5:48 p.m. Part of the underground crew removed the water ring sections from under the bucket while the rest of them put Gay into the stretcher. The underground crew assisted in loading Gay into the No. 1 bucket and then the entire crew was hoisted to the surface. Gay was carried to the dryhouse and first aid was administered until the ambulance arrived at 6:03 p.m. Gay was transported by ambulance to the Mount Graham Community Hospital in Safford, Arizona, and pronounced dead on arrival.

Reportedly there was no one in the near vicinity of the shaft collar at the time of the accident.

Inspection of the accident site and statements from the witnesses led the inspection party to believe that a 3/4-inch-diameter steel shackle, weighing approximately two pounds, fell from somewhere in the shaft or from the collar of the shaft, striking Gay on the back of the head and neck, after penetrating his hardhat. Death was probably instantaneous.

CAUSE OF ACCIDENT

The direct cause of the accident could not be determined but the accident investigation team felt that a 3/4-inch shackle fell from somewhere in the shaft or from the collar of the shaft causing the fatal injury.

OBSERVED VIOLATIONS OF FEDERAL HEALTH AND SAFETY STANDARDS

Violations on which the deputy State mine inspector took action are indicated by the symbol (SN) for State Notice.

- (SN) 57.11-1 (M) Equipment and material in or around the shaft shall be removed or secured.
- (SN) 57.19-110 (M) Person shall perform their work duties from a position where overhead protection is provided.

ACKNOWLEDGEMENT

The cooperation of all persons contacted during the investigation is gratefully acknowledged.

/s/ Chester A. Pascoe

Chester A. Pascoe
Metal and Nonmetal Mine Inspector

/s/ Vernon R. Gomez

Vernon R. Gomez
Metal and Nonmetal Mine Inspector

Approved:

E. Levi Brake

E. Levi Brake
Subdistrict Manager

1
ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: M. L. Hinkins
Address: Box 151 Safford
2. Mine: PD Safford project 3. No. of Claims - Patented _____
Unpatented _____
4. Location: North of Safford
5. Sec _____ Tp 5S Range 26E 6. Mining District Lone Star
7. Owner: Phelps-Dodge Corp.
8. Address: _____
9. Operating Co.: same
10. Address: _____
11. President: _____ 12. Gen. Mgr.: PD-2 Bryce Willis II
13. Principal Metals: copper 14. No. Employed: Boyles- 30
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: Boyles grouting station (250#) water pressure experienced.
Volume not expected to be high.
Water from mine pumping going to Producer Minerals.

- Visited the Safford Project (PD Camp) on 4/7/70.*

Date: 4-7-70

G. L. Linn
(Signature)

(Field Engineer)

ZON/ DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

Coggin

1. Information from: M. L. Hinkins who replaced Mason Scroggins who has moved to Phoenix
Address: Phelps-Dodge Corp. P. O. Box 151 Safford.
2. Mine: Safford Project 3. No. of Claims - Patented Being pat.
Unpatented _____
4. Location: ~~110 #1111#~~ North of Safford
5. Sec. 10 sections see prev report. 6. Mining District Lone Star
Range TP
7. Owner: Phelps-Dodge Corp
8. Address: as above
9. Operating Co.: same
10. Address: same Eng in Charge _____
11. President: _____ 12. Gen. Mgr.: Skip Clark.
13. Principal Metals: Copper 14. No. Employed: 2
15. Mill, Type & Capacity: none
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: A contract will be let for the driving of the drifts into the mineralized zone. The old Oliver headframe from Bisbee will be installed over the shaft. Double drum man and skip hoists will be installed. and the contractors hoist and headframe removed. The man hoist will probably come from Denver and the Skip hoist from Nordberg.
18. Misc. Notes: Fiber Glass pipe will be used for mine ventilation. It is manufactured in Safford by Al Haralson. The large size is 4' by 10' weighs 170# has a bell and split joint that makes it easily installed. Boyles will finish up their present contract by May when the other contracts will start. The shaft has bottomed at 1875' with the level being 1760 this will be called the 2500 level as that is its elevation above sea level. A pump station is being installed. The road from the paved county road is rapidly being improved by Bryce Willis of Clifton. Mr. Willis has from 10 to 12 men working on his contract and Boyles approx 30.

2-10-70

Date: _____


(Signature)

(Field Engineer)

ARIZONA DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Mason Scroggins
Address: _____
2. Mine: P.D. Safford Project 3. No. of Claims - Patented _____
Unpatented _____
4. Location: 6 miles North of Safford
Several Sections
5. Sec _____ Tp _____ Range _____ 6. Mining District Lone Star
7. Owner: Phelps Dodge Corp.
8. Address: Douglas Az.
9. Operating Co.: Same
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Eng in chg. - Elton (Ship) Clark
Mason Scroggins assistant engineer in charge
Bayles Brothers 30 - Bryce Willis 15 & P.D. 2 (Employees)
18. Miscl. Notes: _____
Shaft at 1840 concrete 6' from bottom 40' to go
Then 2500' level station will be cut.

The shaft on the Phelps-Dodge Safford project has neared completion.
QWI Quarterly Report 2/27/70

Date: 10-14-69

JW
(Signature)

(Field Engineer)

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Eldon (Skip) Clark & Personal visit
Address: Box 151 Safford.
2. Mine: Safford P.D. Project. 3. No. of Claims - Patented ?
Unpatented _____
4. Location: Lone Star Mining Dist North of Safford.
5. Sec _____ Tp _____ Range _____ 6. Mining District Lone Star
7. Owner: Phelps Dodge Corp.
8. Address: Box 151 Safford.
9. Operating Co.: Phelps Dodge Corp.
10. Address: Box 151 Safford
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: 2
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: _____
Shaft Bottom 1150
Concrete Bottom 1134
Shaft will be sunk to 2500' level 1760 below collar +
a 3000' x-cut + 2000' other work planned.
O.D Drilling from Grizzley or Sub-level will be done
Approx 2500 sub level will be driven.

Date: 6-3-69

Glen [Signature]
(Signature)

(Field Engineer)

1
MINERAL RESOURCES
DEPARTMENT OF MINES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Bryce Willis
Address: Box 1325 Clifton
2. Mine: PD Safford Project 3. No. of Claims - Patented ?
Unpatented ?
4. Location: North of Safford Several sections not completed
5. Sec. _____ Tp. _____ Range _____ 6. Mining District Lone Star
7. Owner: Phelps Dodge Corp
8. Address: Douglas Arizona
9. Operating Co.: Same
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Copper 14. No. Employed: 2 Company
15. Mill, Type & Capacity: none
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____
- _____
18. Misc. Notes: Shaft down 638' on date of visit. Expect to have station cut
on bottom by the end of the year 1969
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Date: 4-1-69

[Signature]
(Signature)

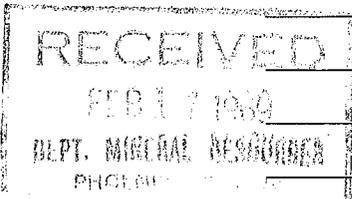
(Field Engineer)

Robert W. ... [Handwritten notes]

X

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: ELTON (SKIP) CLARK & H. MASON COGGIN assistant.
Address: P. O. BOX 151 SAFFORD 85546
2. Mine: SAFFORD PROJECT 3. No. of Claims - Patented _____
Unpatented _____
4. Location: NORTH OF SAFFORD
5. Sec _____ Tp 5&6S Range 26E 6. Mining District LONE STAR
7. Owner: PHELPS DODGE CORP.
8. Address: DRAWER 1217 DOUGLAS 85607
9. Operating Co.: SAME
10. Address: _____
11. President: _____ 12. Gen. Mgr.: ~~HOWARD PHILLIPS~~ J. A. Lentz
13. Principal Metals: Copper 14. No. Employed: 2
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____
18. Misc. Notes: 16' Dia. Concrete Shaft. Concrete to 204, bottom under muck pile
218' Boyles Bro. has 38 men employed. Bryce Willis 12 men. Very good
road to property being constructed. The steel head frame, hoist and hoist house
belong to the contractor and will be removed upon completion of the contract.
- Note: The Safford ~~Rotary Club~~ Chamber of Commerce visited the property while
engineer was there. Guy Anderson and Howard Phillips were in the group.



Date: 2-4-69

[Signature]
(Signature)

(Field Engineer)

ZONA DEPARTAMENT OF MINES RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Elton (Skip) Clark in charge.
Phelps-Dodge Corp. Safford Project, P. O. Box 151, Safford 85546
Address: _____
As above.
2. Mine: _____ 3. No. of Claims - Patented _____
Unpatented _____
4. Location: North of Safford.
5. Sec _____ Tp 5&6 S Range 26E 6. Mining District Lone Star
7. Owner: Phelps-Dodge Corp.
8. Address: Drawer 1217 Douglas, Arizona 85607
9. Operating Co.: Same
10. Address: _____
11. President: _____ 12. Gen. Mgr.: Walter Lawson
13. Principal Metals: _____ 14. No. Employed: 1
15. Mill, Type & Capacity: none
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: The shaft site has been prepared. At the time of visit the shaft bottom was 35' below the collar. Steel forms were being placed for the 16' round concrete shaft. The hoist house was being constructed. Present sinking is done with a truck mounted crane and bucket. The concrete mixing plant is
18. Misc. Notes: in place. Trailers have been moved in for offices etc. Boyles brothers have the shaft contract. It will be sunk approx 1600'
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Date: 12-3-68

G. W. Irvin
(Signature)

G. W. Irvin
(Field Engineer)