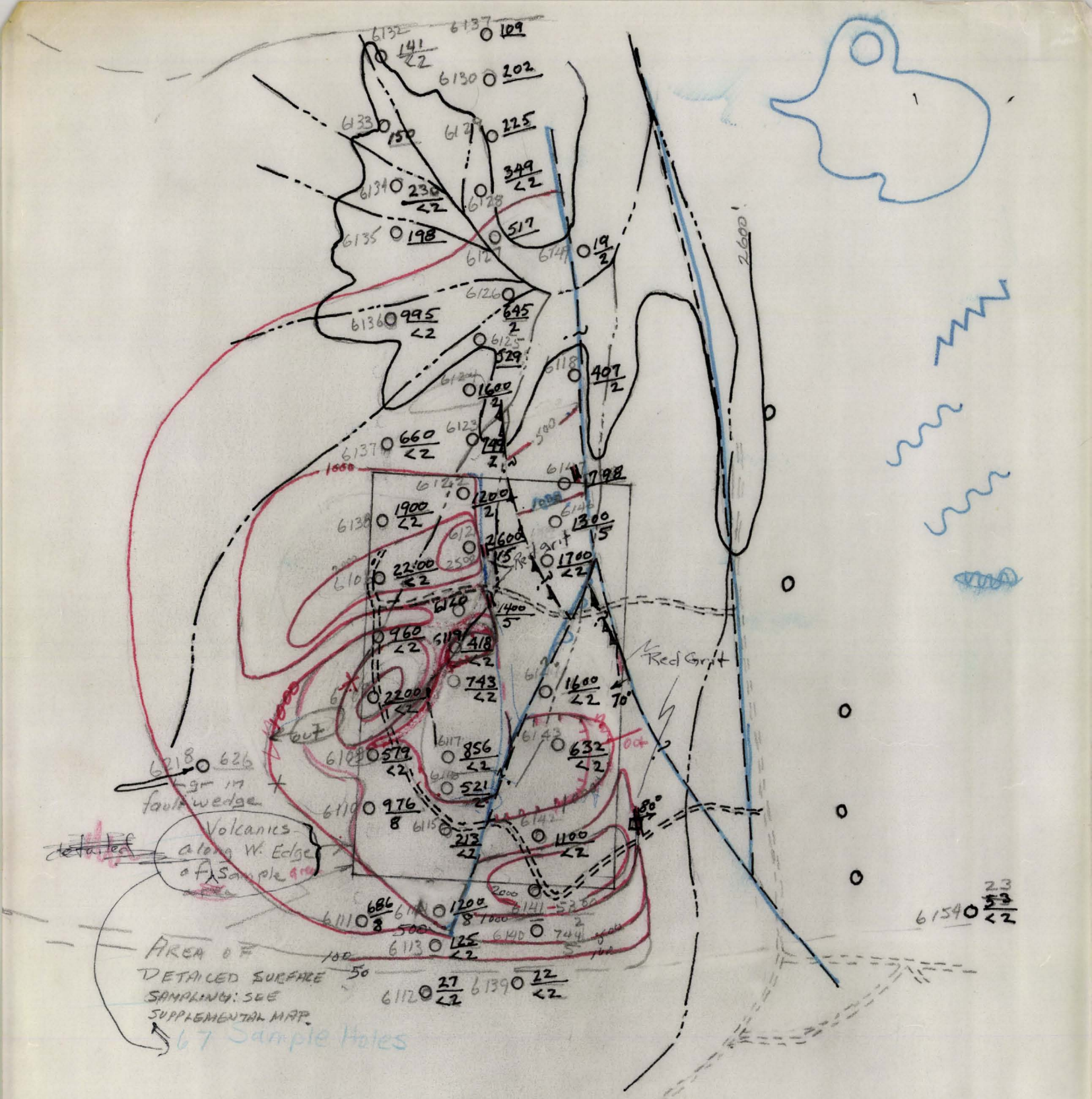
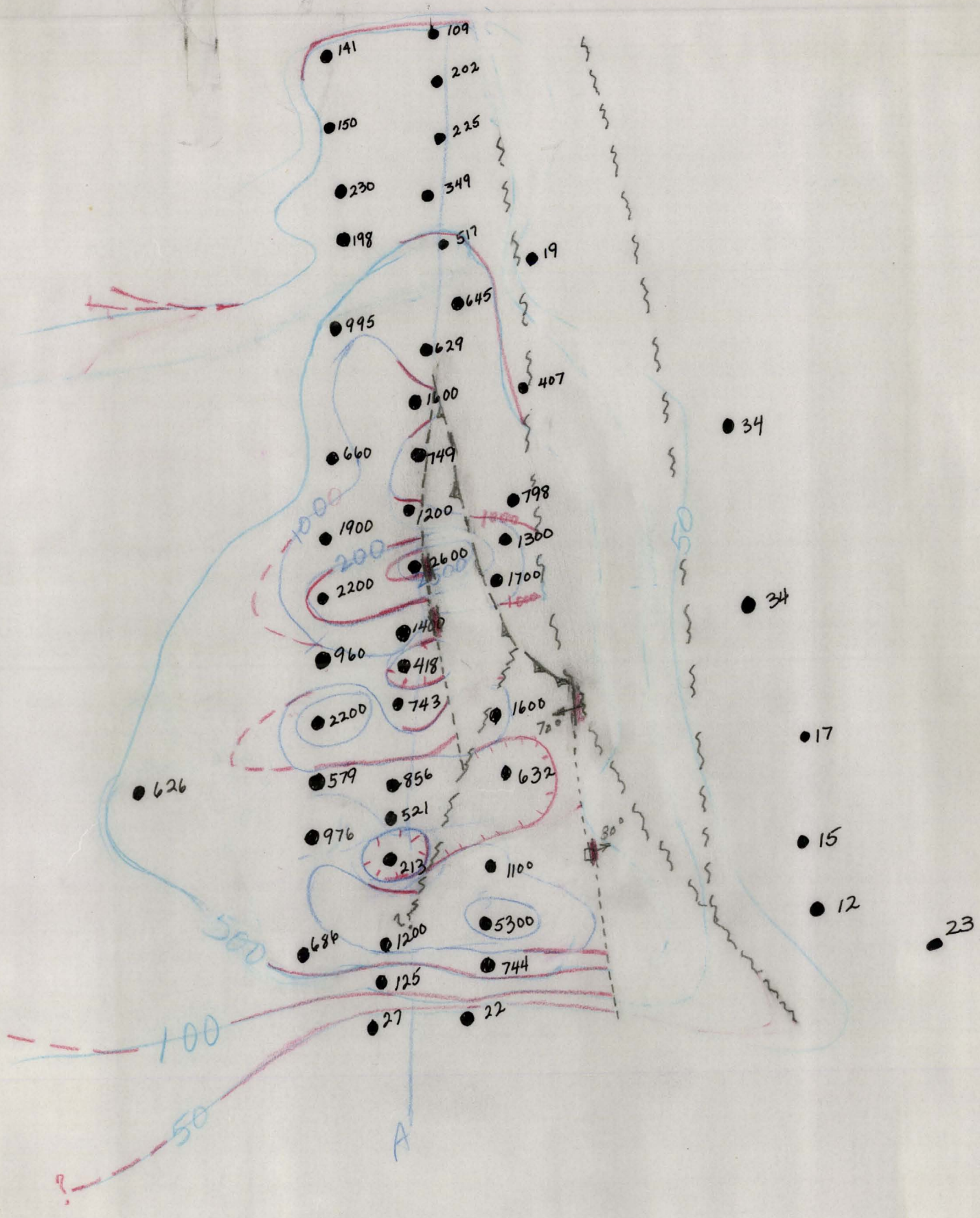
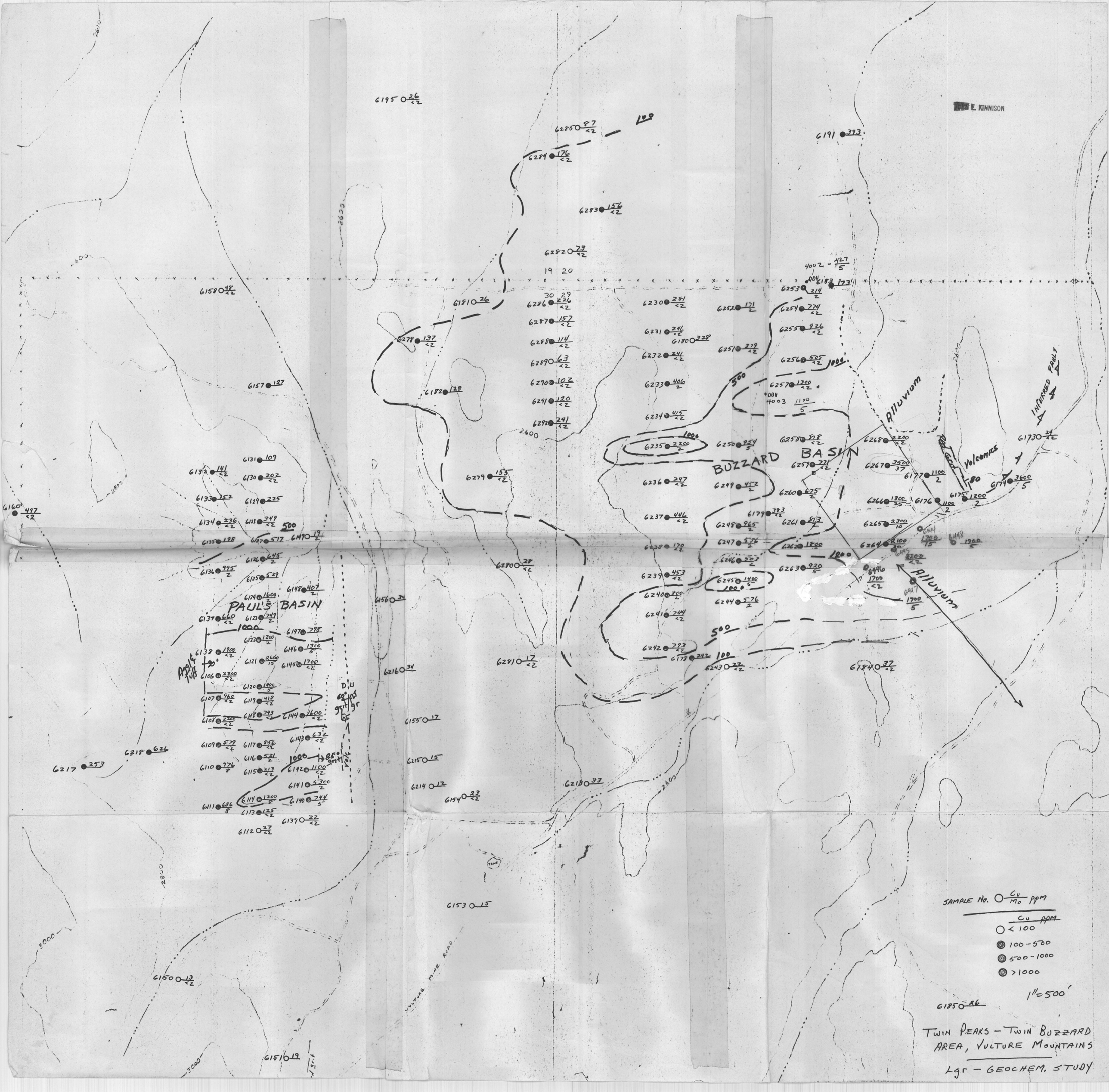


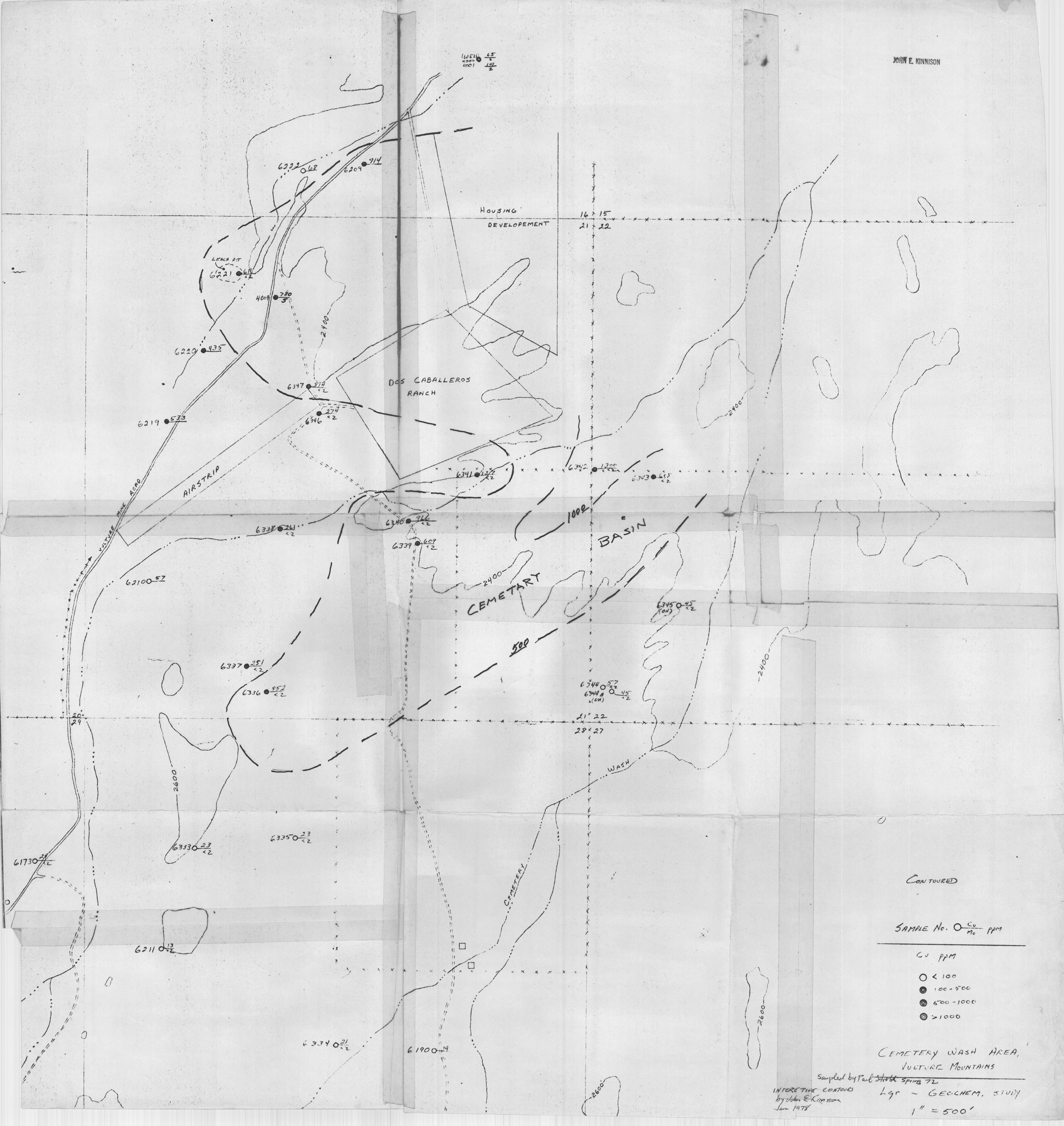

INTERPRETIVE FAULTS PARTLY BASED ON H. WINTER'S DRILLING; and partly on outcrops (Not shown on this map).

67


141
109
202
150
225
230
349
198
517
19
645
995
629
407
1600
34
660
749
798
1200
1900
1300
2600
1700
2200
34
1400
960
418
743
1600
2200
17
626
579
856
632
521
976
15
213
1100
12
5300
23
686
1200
744
125
27
22
A
100
50
?


E. KINNISON
BUZZARD BASIN
PAUL'S BASIN
Alluvium
Volcanics
INFERRED FAULT
VULTURE MINE ROAD
SAMPLE No. Cu/Mo PPM
Cu PPM
< 100
100-500
500-1000
> 1000
1" = 500'
TWIN PEAKS - TWIN BUZZARD AREA, VULTURE MOUNTAINS
Lgr - GEOCHEM. STUDY

JOHN E. KINNISON




CONTOURED

SAMPLE No. Cu/Mo ppm

Cu ppm

- < 100
- 100 - 500
- 500 - 1000
- > 1000

CEMETERY WASH AREA, VULTURE MOUNTAINS

Sampled by Paul ~~Stroh~~ Spring 72

INTERETIVE CONTOURS by John E. Kinnison Jan 1978

Lgr - GEOCHEM. STUDY

1" = 500'

(Maricopa) - Vulture Mtn Geol.

DN

J. E. K.

# INTER-OFFICE MEMORANDUM

TO John E. Kinnison
AT Tucson

DATE August 23, 1972 AUG 25 1972

FROM Joseph J. Durek
AT Oakland, 2026 KE

COPIES TO

SUBJECT COPPER-ARIZONA
Comments on Field Review of the Vulture Mountains

---

The following comments are of impressions gained during my visit to the Vulture Mountains on August 17-20, and they are largely a repetition or amplification of our oral review in Tucson:

Copper Transport. The presence of chrysocolla in fractures in unaltered granite where iron oxides are absent is clearly the result of transport and reprecipitation. The distance traveled is theoretically unlimited, but percolation in unaltered rock might be restricted to hundreds of feet. Iron oxides, chiefly hematite, were disconcertingly abundant in many places in the Vulture deposits, however, although direct evidence of former sulfides was not easily discernable. This factor led me to conclude that transport might be generally limited to tens of feet or less. Evidence found at all locations included sparse cavities after pyrite, micro-veinlets containing dense hematite with staining into the walls, scattered irregular blebs of hematite concluded to be after pyrite, and local hematitic flooding believed inconsistent with long transport.

Porphyritic Intrusives. The finding of mineralized and altered porphyritic or aplitic intrusives associated with the known copper exposures is accepted as strong circumstancial evidence that they represent the local sources of the copper, even though they may appear quantitatively deficient as now known or exposed. The common orientation of N65°E and the alignment of the copper deposits suggests that a narrow swarm of dikes may be present parallel to the granite contact. These differ from the low-angle, north-striking dikes which may be of volcanic origin. The intrusives appeared to be elongate, but it is believed that all of them may be dikes:

> Cemetery Basin. It is proposed that a porphyritic dike was intersected by all of the drill holes north of the pit and is exposed in a trench about 100 feet north of the former gate. In the trench, it is in fault contact with the granite, and no exposures were found in a rapid reconnaissance east of the road. However, copper stains were present in granite exposures near the edge of the

road and in float near the eastward andesite contact. Some of the granitic rock contains much hornblende, and this may be a diorite with some mapping significance. The west face of the pit is in fault breccia (N30°E) and the footwall has a porphyritic texture which is obscured by the strong argillic alteration and friability. I terminated my examination when two prospectors arrived (I expressed passing curiosity, but on my way to visit the Vulture Mine on a day off.), and the entire area should be more carefully examined. There may be left-lateral displacement of the dike along the N40°E fault, and there may be a fault between the pit and the road. The airphotos show a low mound along the wash southwest of the pit, and this may be a continuation of the dike (or the granite contact).

Buzzard Basin. There is an 18-inch porphyritic dike in the exposure showed to me at the edge of the wash. It is below the large bush and strikes N65°E. The extensive geochemical anomaly is almost unbelievable, and other intrusives must be present in this area of low relief and poor exposures. The two westward lobes of the 500 ppm and 1,000 ppm contours may reflect dikes, and the broader high near the grit exposure should be examined for evidence of a local source. This grit should postdate the mineralization and may locally contain detrital or reprecipitated copper.

Paul's Basin. In the prospect pit there is a steeply-dipping fault slightly oblique to the erosional surface of the granite, and angular remnants of a basic dike remain. Most of the stockpiled ore near the road is from this dike. The dipping sand layer next to the granite is thinly-banded due to rhythmic precipitation of limonite and might be of some origin other than stream deposition. The adjacent conglomerate is suspiciously unconsolidated for a Tertiary origin, and the alleged arkosic equivalent up the hill is so coherent that it resembles granite. No new interpretation is offered, but this exposure must be viewed critically when used in a broad interpretation of structure or chronology.

It is probable that a dike crosses the road 200 feet south of the pit, although the large amount of bulldozer work done to expose chrysocolla has obscured its form. Principal fracturing and a small exposure west of the road suggest a N65°E strike, which projects to a concealed

intersection with the grit. There is abundant hematite associated with the exposed oxidized copper.

At the main copper exposures, a siliceous remnant of a welded contact is exposed in the bank near the claim post, and porphyry is exposed in the bed of the wash. Hematitic veinlets and flooding with some boxwork after pyrite attest to local mineralization. East of the cuts, the small reddish hill marks a vaguely porphyritic rock in which texture is obscured by silicification and chloritic alteration. It is in fault contact with granite at it eastern border and a chloritic, hornblende intrusive to the west. Strongly developed sheeting and elongation suggest a dike striking N65$^{o}$E.

Other Deposits. Until contrary evidence is found, I am inclined to consider both the prospect area north of the Vulture Mine and the former Phelps Dodge property as similar in origin and associated with the southern Laramide granite contact. However, these are not contact-type deposits, but they are related to the multiple-faulted contact zone and possibly to local dikes. What is known in this south area is not itself promising, but a circumstancial case could support a tilted or obliquely-intruded granite with a northwest-dipping contact (northward embayment of the granite contact in basins and dominant attitude of faults and schist foliation). This could result in an exaggeration of the granite width, a footwall environment in the south, and an apparent separation of contact-related phenomena by progressive erosion.

No similar prospects have been detected near the exposed northern contact, but the unexposed area north of the chrysocolla zones is believed to warrant attention.

Eldred Wilson has suggested a Laramide age for the veins of the Vulture mine, and this permits a simpler interpretation of the other quartz-specularite veins present northeastward along the Laramide contact. Veins of this type are commonly in Precambrian schist or granite, and they have been considered by many to be Precambrian in age. There is no compelling evidence or need for this assignment here.

Regional Factors. The northeastern attitude of folding and foliation of Precambrian rocks is responsible for the unusual alignment of the ranges to the northwest. These persist to the Vulture Mtns., where Tertiary Northwestern alignment is superimposed. The Precambrian alignment has probably persisted since Mazatzal time, and it has apparently influenced all Laramide features we have observed. This total conformity with a prior structural fabric makes the recognition of a magma source or related stress field difficult. The existing link is the porphyry dikes, and their

distribution or attitude may be our best hope of some solution. Dick Moore, of the Arizona Bureau of Mines, is credited with the reconnaissance mapping of the Vulture Mtns. for the State geology map. Although I suspect he has borrowed from prior sources, a general inquiry, avoiding comment on the presence of porphyritic rocks except perhaps as an inquiry of his knowledge regarding their presence, might be useful. For example, the evidence for his mapping of the volcanics as Cretaceous rather than Tertiary should be understood, for this would be reason to change our Laramide granite to one of Nevadan age. This "looks" like a silicic Tertiary section, with unconformable basalt on top. If Damon confirms that the Laramide age is for the granite, this will be sufficient evidence. I keep remembering my 34 m.y. date for what I though was Raper's core of the Vulture granite. (It had a similar appearance.) This is Oligocene or a very young Laramide, and it would support a Tertiary age for the volcanics.

Further Work. The mapped area contains evidence of copper mineralization associated with small porphyritic intrusives, and these features give reason for optimism. However, they are markedly deficient in size, and the very weak alteration requires that they be considered only remote features of a possible porphyry system or only evidence that favorable processes were at work in the range.

I suggest we first utilize our completed field work by a brief field review in the mineralized area, searching for new evidence on which to base a projection into concealed areas or on which to conclude that only special but local controls exist. I have in mind all mineralized or related features such as veins and dikes, but also faults and fracture patterns. Only a "sampling" of these attitudes or distributions is necessary, rather than an intensive study, and much of the information may be now in hand. However, evidence of broad alteration could give us the least equivical lead, and easily detected features such as incipient chloritization of biotite or silicification should be noted and its extent determined. We are now looking for porphyritic stock satellitic to the granite intrusive or the alteration effects of such a stock. Evidence of a strong, regional, cross-cutting structure could be a lead, but the volcanic ridges may obscure this. The most pronounced example is the Hassayampa River valley, but this may be a young feature. Unfortunately, superficial reasoning points to the populated Wickenburg area, but the area north of Buzzard and Cemetery Basins invite consideration.

Finally, if we are unable to make any case for the central mapped area or adjacent gravels, a brief reconsideration of other parts of the range (guided principally by photo inspection) is desirable before vacating this area. Paul's sampling will permit an estimate of the amount of oxidized copper at surface, but I believe this must be evaluated as exposed without expectation of vertical improvement.

JJD:la

file jek

DN

# INTER-OFFICE MEMORANDUM

TO J. E. Kinnison
AT Tucson, Arizona

J. E. K.

SEP 20 1972

COPIES TO File
Blue

DATE August 7, 1972

FROM J. Sandy
AT Tucson, Arizona

SUBJECT Magnetic and Geologic Trend of Cupriferous Laramide Grani in the Vulture and Big Horn Mountains and its Relation t Parallel Trends

A strong northeasterly magnetic trend, bearing N57°E, coincides exactly with the trend of Laramide granite that passes through the Vulture and Big Horn Mountains. The long axis of the magnetic trend passes just north of Wickenburg and extends for 25 miles to the northeast and 25 miles to the southwest. Almost continuous outcrops of this Laramide granite, which averages 2 miles in width, have been traced for 37 miles of this trend, 11 miles to the northeast and 26 miles to the southeast from Wickenburg.

The magnetic trend is a "low" (200-300 gammas) surrounded by slightly higher values (500 gammas). Thus, the Laramide granite appears to be slightly less magnetic than the Tertiary volcanics and the Precambrian complex which occur in this area.

Parallel trends of this same magnetic magnitude are present for 60 miles to the southeast of Phoenix and for 35 miles to the northeast and southwest of Florence. Parallel outcrops of Laramide granite occur in the Harquahala and Harcuvar Mountains. These major trends may represent faults or other zones of weakness into which Laramide granite was intruded.

The remarkably long aspect ratio and consistent width of the Vulture-Big Horns Laramide granite intrusion (37 miles x 2 miles) may indicate a rift between crustal plates with little or no strike-dip or dip-slip movement, only horizontal separation. Copper has been found along the entire length of outcrop. This suggests that parallel structures may also contain copper if their genetic origin was similar.

JS/bl

JEK file Vulture Mtn - geology

For Wickenburg Photos
Cooper Aerial

Wild —
RC 10

Clear Vignetting filter

Universally - Film Kodak Aerocolor negative
#2445

6" focal —
Universal
Wild Aviogon for 5.6

Telephone Transmit data to Dunlap for T O'Neil

J. E. K.
JUL 10 1972

J. J. Durek
Oakland, California

June 23, 1972

John E. Kinnison
Tucson, Arizona

File
Blue

Preliminary Geologic Report,
Vulture Mountains, Maricopa
County, Arizona

The enclosed geologic map, although preliminary in nature, is forwarded with the following comments, in order that you may be informed of our current status in the vicinity of Wickenburg. The geologic map in large measure represents photo-geologic interpretation, augmented by spot field checking in critical areas, and in the area between Wickenburg and Paul's Basin by relatively accurate field reconnaissance. Inasmuch as I believe there exists a tenuous lead to covered mineralization, I have assigned Mr. Richardson to the task of deciphering the volcanic and structural geology in that part of the Vulture mountains from O'Haco valley on the west to the Hassayampa river on the east. Hopefully his detailed work, perhaps coupled with the over-all relationships of that part of the Vulture mountains to the broader distribution of base and precious metals in the Vulture and Wickenburg mountains, will provide a target for either geophysical work, or drilling, or both.

## GENERAL GEOLOGY

Pre-mineral bedrock consists of essentially two divisions: 1. pre-Cambrian basement, intruded by 2. Laramide granite.

The pre-Cambrian is divisible into three principal sub-units. Rather typical coarse-grained pre-Cambrian granite is present over rather wide areas. This unit, however, in places grades somewhat imperceptibly into a finer-grained complex of granite or gneissic granite. A third basement unit, which is relatively distinctive, consists of a northeasterly-trending belt of metamorphic rocks--largely schist.

Laramide granite intrudes the pre-Cambrian along what appears in plan as an elongate northeast-trending belt. The actual length of granite outcrop is, however, misleading in terms of its original size. As will be explained later, the Laramide granite and overlying volcanic rocks have been rotated to angles varying between vertical and 45°, and sliced apart by low-angle faults. Thus, the present surface exposure represents a series of cross sections of the original intrusive body. Reconstruction of these faults and correction for tilt would greatly reduce the apparent length of the intrusive mass. George Richardson has ascertained through verbal comment that Paul Damon's laboratory has fixed the age of the Laramide granite at 62-67 million years. The age dating was done for Bill Rehrig of Continental Oil. Rehrig, by the way, has been working for some time in a reconnaissance fashion in the Vulture mountains, although to our knowledge he or Continental do not at this time have an exploration objective.

The volcanic geology is complex, and with the exception of a basal unit, our reconnaissance work has failed to decipher the volcanic column. The volcanics are

clearly post-mineral, as they are deposited upon a surface cut on Laramide granite, and are themselves unmineralized. In support of this inference, we have learned from Rehrig that Damon's laboratory places the volcanics at approximately 19 million years--a very young date--comparable to the flat-lying basalts at "A" mountain near Tucson and elsewhere.

Exposures in O'Haco valley at the base of the volcanic sequence, limited exposures in prospect pits in Paul's valley, and partial exposures in Buzzard basin define an easily recognizable base of the volcanic sequence. A red-colored sedimentary unit forms what amounts to a basal conglomerate. This formation consists largely of coarse grits, occasionally traversed by boulder-filled channels and lenses. Poor soil exposures suggest that rather fine red mudstone is locally present. Evidentally the pre-volcanic erosional topography produced weathered, basin-like surfaces upon the Laramide granite, and somewhat more rugged topography in the pre-Cambrian granite and gneiss. Nearly all of the recognizable boulders in the red grit consist of pre-Cambrian rocks. The thickness of this unit ranges from about 25 feet to perhaps as much as 100 feet. Overlying the red grit and conglomerate is a single thin unit (5-15 feet) which consists of finely banded yellow tuff, probably waterlain. The sequence of red grit and yellow tuff make a recognizable unit even in relatively poor outcrops, but the overlying thick volcanic sequence has not yielded, at this point, to subdivision.

You will probably note that no structural data other than the trend of volcanics is indicated. A few low-angle faults have been directly observed in the area of Twin Peaks, and these offset locally recognizable volcanic beds down dip. For the most part, however, the presence of low-angle gravity faults, as diagrammatically displayed on a preliminary cross section forwarded to you with the last monthly report, is an inferred condition. Characteristically, the area of outcrop of these faults is at the base of volcanic slopes, and is generally covered with float and talus. However, there is hardly any other interpretation, and I feel that closer field work will reveal outcrops of these faults.

## MINERALIZATION

Two principal areas of copper mineralization occur southwest of Wickenburg, and of these one area is of primary concern.

An area of copper oxides, not currently of interest, crops out in the vicinity of Turtle Back wash due south of Wickenburg. A portion of a generally pyritized zone was drilled by Phelps Dodge a few years ago, and this area is outlined in red on the geologic map. They sunk about twenty-five holes in the area of profuse copper staining and samples from air-rotary rejects suggest copper in the range of .1-.2% and anomalous molybdenum. The mineralization does not appear to affect Laramide granite, and may well be pre-Cambrian.

Mineralization which is of current interest consists of copper oxides which have been located now in three separate but adjoining basins. These are outlined on the geologic map by red semicircles.

Attached you will find two geochem maps which cover these three basins. The following factors are pertinent:

1. There is evidence of narrow quartz seams with pre-existing sulphides coincident with the higher copper geochem values in the central part of Paul's basin. However, the oxides are distributed well beyond these rather restricted zones of fissuring. Only a few such mineralized seams have been found in Buzzard basin.

2. The contact between the overlying grit at the base of the volcanic sequence and the underlying granite is well exposed by prospect pits in the southern part of the copper anomaly in Paul's basin. The bottom several inches of grit, as well as the underlying granite, is traversed by seams and specks of clearly exotic copper silicates which are accompanied by more or less manganese oxides in seams and as stain on mica. The contact in Buzzard basin between the overlying grit and underlying granite is not exposed, but as shown by the geochem map both copper and molybdenum are concentrated beneath this contact. Copper values fade gradually to the west of Buzzard basin and ultimately disappear into normal background.

3. Copper oxides occur in a similar manner in Cemetery basin, but are not as concentrated as in Buzzard or Paul's basin. The overlying grit is not exposed, and outcrops are sparse.

My interpretation of the above points, at this time, is as follows. I do not believe the small amount of quartz veining is sufficient to have provided a sulphide source for the quantity of copper silicates which actually exist, and which is largely if not entirely exotic. The copper beneath the red grit in both Buzzard and Paul's basins appears to be clearly exotic and is accompanied in Buzzard basin by an enrichment of molybdenum. Structural uncertainties preclude an analysis of copper values west of Paul's basin. However, west of Twin Peaks in O'Haco valley, there is clearly no concentration of transported copper at the base of the grit. The "fade-out" of copper values westerly in Buzzard basin, and their concentration near the overlying grit, suggests the possibility that surface or ground water precipitated copper and molybdenum in this localized area, which we now view in a vertical cross section due to tilting. The depth of penetration by such copper-bearing waters would be as much as 3,600 feet based on simple measurement, which seems excessive. However, internal structural complications may be partly responsible for this apparent depth of penetration.

Combining the above thoughts with the apparent low-angle fault slices leads me, at this time, to believe that each of the three basins which now contain abundant copper oxides are actually three separate gravity slices, perhaps 500 -1,000 feet thick. These faults, combined with tilting, now separate an area which was once a continuous basin for the deposition of exotic copper oxides. During the formation of present topography there may have been a second redistribution of copper oxides, and this also may account for some but not all of the widespread oxide distribution--particularly in Buzzard basin.

Although to date we have not seen any sign of porphyry--unmineralized or not--I would nonetheless propose that one source of such abundant copper would be a porphyry copper deposit. Our objective is to reconstruct (if possible) the original geometry of the area of deposition of this exotic copper, and then to speculate on its source.

although

Theoretical considerations--as well as observed occurrences--indicate that lateral transportation of copper from porphyry copper deposits is restricted in distance. Most described deposits occur within a quarter mile at the edge of the primary deposit. Those at Chiuquicamata are up to two miles from the pit. Exotic deposits which were probably derived from Ajo appear as much as four miles south of the pit, some of this separation may be structural. Thus we have a spatially restricted area in which to search, and part of this area is covered by fault plates of volcanics, as well as alluvial cover in other areas.

## CONCLUSION

The foregoing, in a simplified way, describes the gross features of the Vulture mountains as they are related to our current exploration objectives. Although there are many qualifications, as well as additional commentary which I could make at this time, I believe it is premature to go into detail. Our objective is the source of widespread exotic copper oxides which appear to have originated beneath a former surface which is now tilted and sliced apart by low-angle faults.

It is not now possible to meaningfully speculate on the chances of success in this program, but obviously such a difficult task makes the undertaking hazardous. We will be in a better position to evaluate our chances after Mr. Richardson has made more progress in deciphering the details of geology in the area involved.

JEK/bl
Encls.

JEK 3-7-A-1,2

DN

J. E. K.

JUL 02 1972

# INTER-OFFICE MEMORANDUM

TO John E. Kinnison
AT Tucson

DATE June 29, 1972

FROM Joseph J. Durek
AT Oakland, 2026 KB

COPIES TO

SUBJECT Comments on the Vulture Mountains Areas

---

I am encouraged by the completed work in the Vulture Mountains, and support its continuation. I will submit the airphoto contract for signature, immediately. The following comments are merely thoughts that arose during review of your preliminary report.

The structural interpretation of gravity faulting is perceptive and appears to fit well at this preliminary stage. I believe this is a common feature in orogenic regions, but it is difficult to recognize because bedding-plane faulting is common. Whether these features differ from the "thrusting" in western Arizona and eastern California is uncertain, but some differences may already be evident.

The stepped repetition of tilted segments of volcanic flows is your principal line of reasoning, and unloading might be from the Bradshaw massif, rather than locally. In your sections, the cause of the doming or uplift of the volcanics is unclear unless they were Cretaceous rather than Tertiary. However, field observations of the contact and Paul Daymon's date of 19 M.Y. for a least some portion of the volcanic rocks certainly support a Tertiary age. Also, the tilted vesicular basalt remnant to the north is almost certainly Upper Tertiary, and this requires a youthful rotation unless it is an isolated landslide block. The rhyolite might indicate a local volcanic center; otherwise you must deal with Upper Tertiary crustal dilation rather than compressive arching or doming to initiate the sliding. Perhaps instability resulting from northwest-thrusting block faulting, such as along the Hassayampa River channel.

To the west, the low-angle faults are typically mineralized, as at Swansea and Mineral Hill. This could be the case in the Vulture Mountains, and it would be reason for reduced optimism. However, the strong points at present are the widespread anomaly and the Laramide intrusive. The granitoid texture causes me to expect vein rather than disseminated mineralization, but more detailed mapping is indicated. I would initially consider the mineralization in gneiss drilled by Phelps Dodge to be part of the Laramide system.

Be certain that the volcanics can be excluded as a source, although I have no expectation that they are. I have seen prospects on very hematite granite for which I have concluded the hematite appeared to be exotic but was thermally exsolved due to former overlying andesitic flows. I accepted this only after subjecting weathered granite to an oxy-acetylene torch.

The schist and gneissic foliations might assist in reconstruction, especially where segmented rotation is suspected. However, I suspect the gneiss is only poorly or locally developed. Tilting within the Laramide granite might be confirmed by a study of fracture patterns.

Incipient rock alteration should be noted, for any progression would be valuable. Chloritic alteration of biotite may be first noted, but watch for weathering or supergene effects. Consider a petrographic study if observations indicate it is warranted.

The high copper anomaly and relatively very high molybdenum anomaly at the mouth of Buzzard Basin suggest minimum transport. Your reasoning could put a source, or the core of the intrusive, to the northeast or toward Wickenburg.

I agree with your reasoning about the limited distance of copper transport in meteoric water. I believe it will move only in percolating solutions above the water table, and it will precipitate with manganese when neutralized by ground water or reaction with unaltered rocks. When the mixed black oxide, melaconite, is present, I use the ratio of manganese-copper-iron to suggest distance of transport.

The iron precipitates early and its presence suggests proximity to source; the manganese persists well beyond the range of copper. The increasing blackness of the streak is an indication of increasing ratio of copper to manganese. Ferrous iron is mobile but it hydrolizes and precipitates as goethite or oxidizes and forms hematite. Most calcite should precipitate beyond the copper, commonly near the water table. The gypsum solubility is exceeded only locally, and it probably forms from evaporating films. The stability fields of malachite and chrysocolla are similar to tenorite (or the black cupric oxide which is generally amorphous), and the mineral formed is dependent on available anions. These oxide minerals are always transported to some degree, in that they will not form in the immediate environment of decomposing sulfides.

The elongation of the Laramide granite, even after possible reconstruction, suggests a northeast trend of possible interest beyond the prospect area. A northwest intersection appears likely in the prospect area (possibly enhanced by more detailed mapping there), but the area east of the river in the Bradshaw or Hieroglyphic Mountains should be considered, also.

Tom has commented on his examination of a strongly enriched vein in granite northeast of Wickenburg (possibly near Constellation) which might provide information on depth of oxidation, etc. The weathered profile in the project area might indicate relative duration of exposure and confirm sheeted displacements.

Rehrig is agressive, and I am wary of his presence in the area. Obtain land status information to permit expeditious acquisition if it becomes desirable . I understand we are not facing any immediate competition in this area, but if an adverse staking program is detected we should be prepared to make a quick decision about our response.

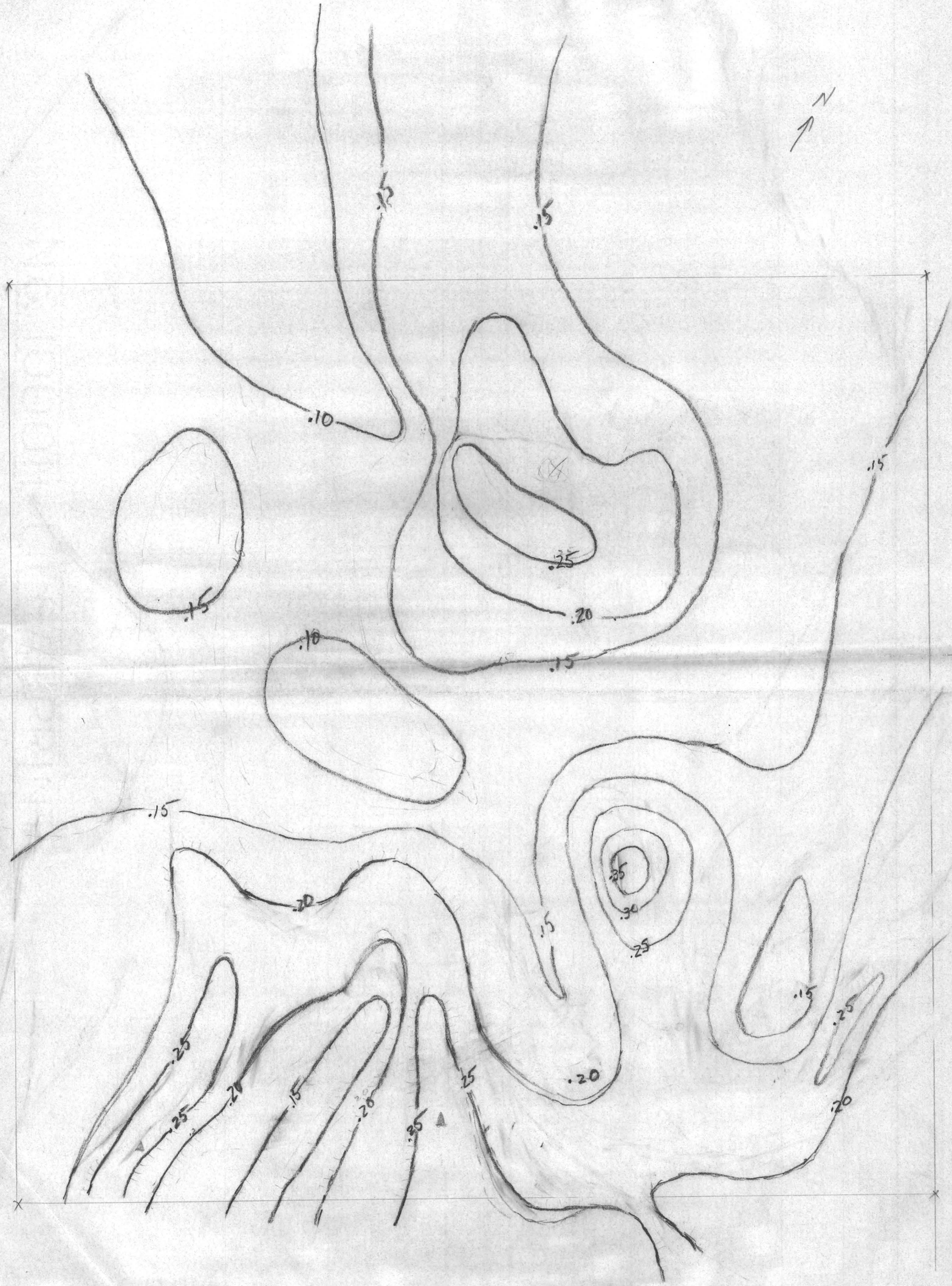
Do not overlook the potential for a small oxide leaching operation. I believe that 10,000,000 tons averaging 0.5% Cu would justify a formal cost evaluation. This would entail only 70 acres to a depth of 50 feet.

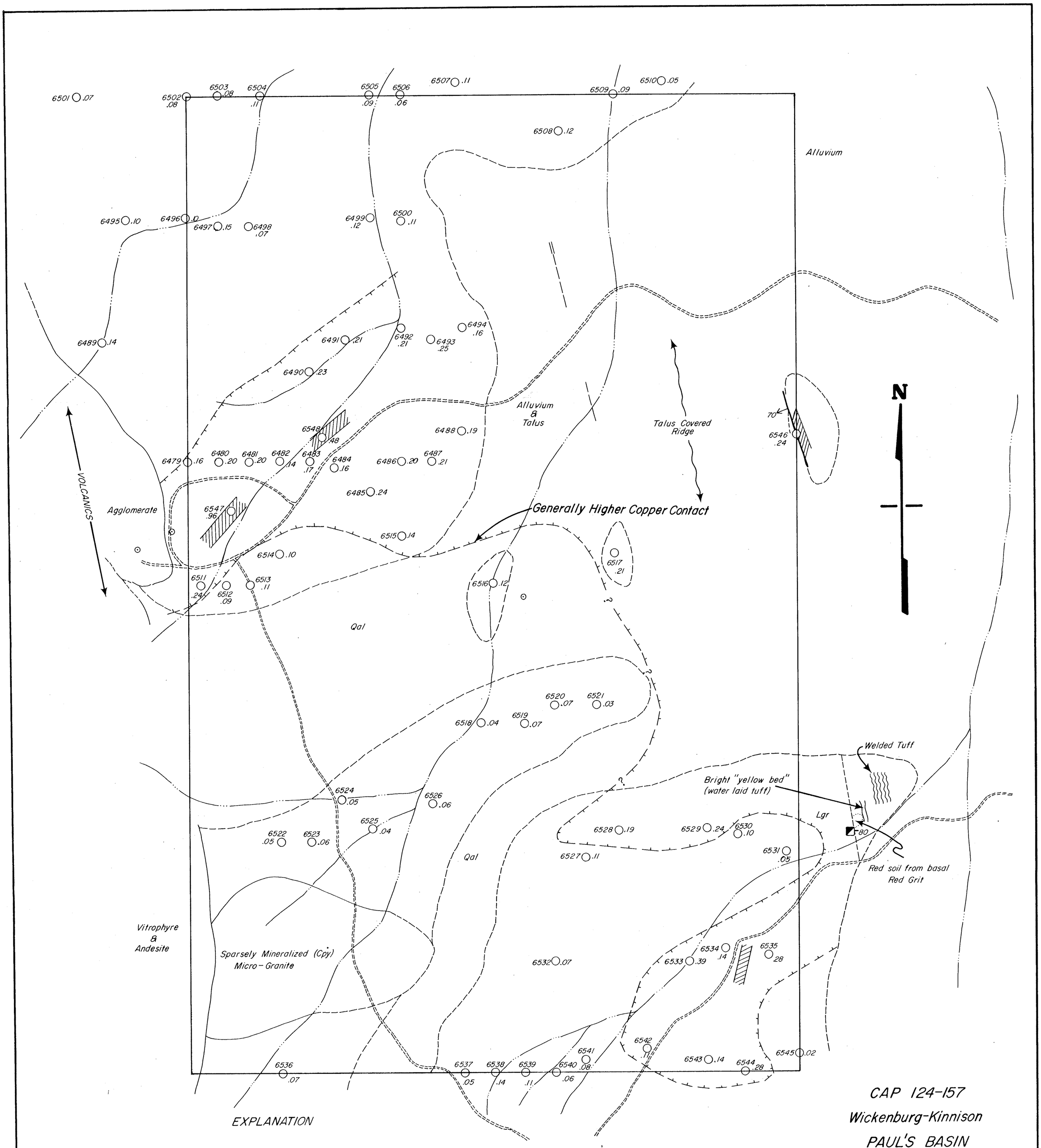
Caution George in the use of large-scale aerial photographs in areas of high relief. There will be distance and angular distortion on slopes, and a photo overlay might have to be adjusted to fit a topographic base such as an enlarged segment of a quadrangle map which could be derived from photos having a scale of 1:48,000 and taken from 40,000 feet.

JJD:la

Paul
See more
text

.15
.20
.25
.30
.35
.40
.45
.50
.55
.60
.65
.70
.75
.80
.85
.90
.95
.100


N
.15
.15
.10
.15
.25
.20
.15
.15
.10
.15
.20
.15
.35
.30
.25
.15
.25
.25
.20
.15
.20
.25
.35
.25
.20
.20




EXPLANATION

CU% (Hawley & Hawley Standard Assay)

- .01 – .09
- .10 – .14
- .15 – .19
- .19

(Only Laramide Granite sampled)

- Trenches in Lgr
- Sample number & location
- Drill Hole
- Exposure of Basal Red Grit
- Approximate outcrop areas of Lgr

# CAP 124-157

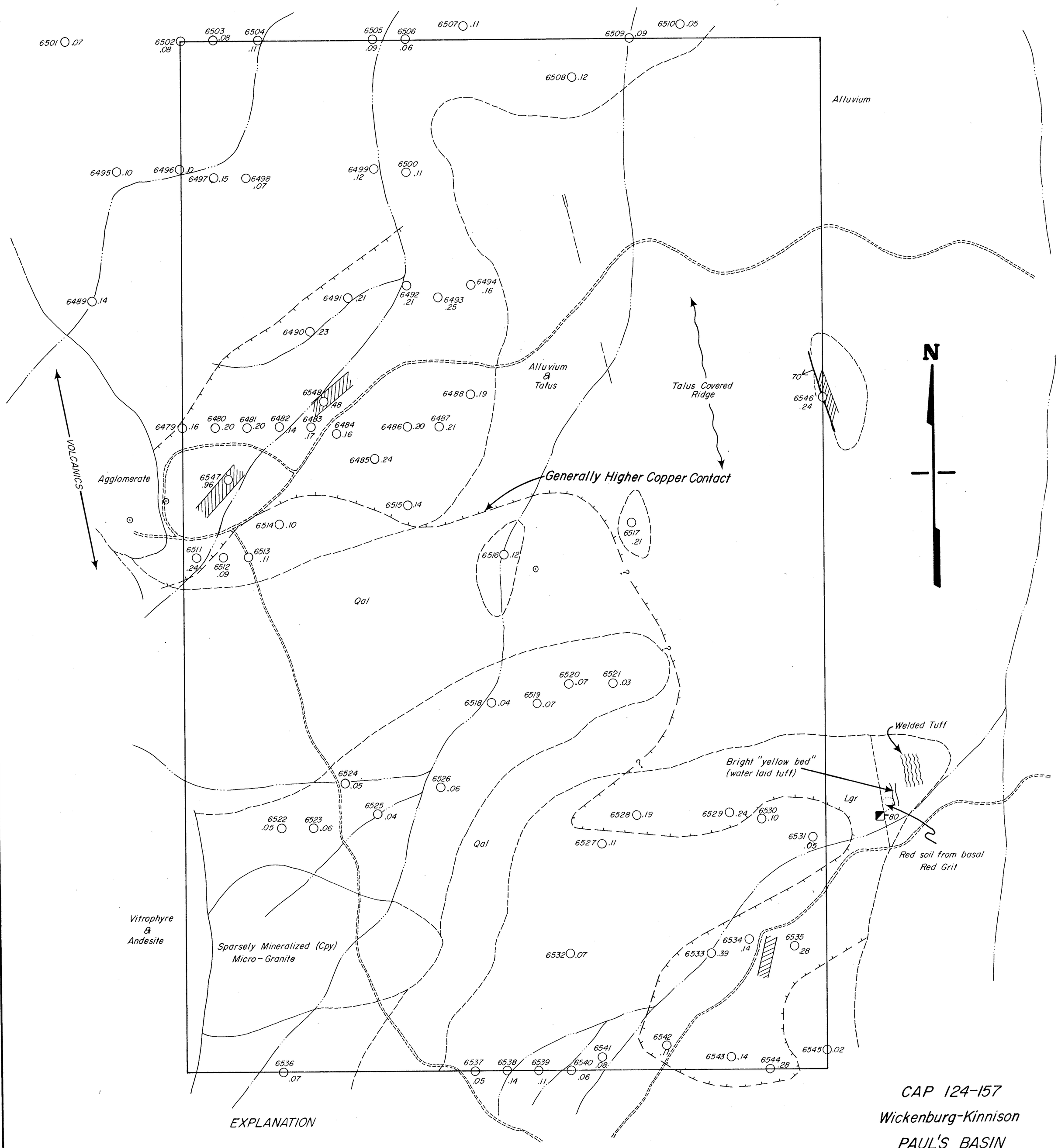
## Wickenburg-Kinnison

## PAUL'S BASIN GEOCHEM MAP

Vulture Mtns.-Maricopa Co.

Wickenburg, Arizona

SCALE 1" = 100' DATE 8-18-72
FIELD SAMPLING BY PAUL STROBEL
INTERPRETATION BY J.E. KINNISON 12-2-77




EXPLANATION

CU % (Hawley & Hawley Standard Assay)

- .01 – .09
- .10 – .14
- .15 – .19
- .19

(Only Laramide Granite sampled)

- Trenches in Lgr
- Sample number & location
- Drill Hole
- Exposure of Basal Red Grit
- Approximate outcrop areas of Lgr

# CAP 124-157

## Wickenburg-Kinnison

## PAUL'S BASIN

## GEOCHEM MAP

Vulture Mtns.-Maricopa Co.

Wickenburg, Arizona

SCALE 1" = 100' DATE 8-18-72
FIELD SAMPLING BY PAUL STROBEL
INTERPRETATION BY J.E. KINNISON 12-2-77

Wickenburg Kommission
Superseded and updated

## COST SUMMARY

TOTAL PROJECT EXPENSE THROUGH JANUARY 30, 1978

C.A.P. 124-157 (Wickenburg-Kinnison)

| | |
|---|---|
| Drilling (Includes Roads and Sites) | $ 28,509.73 |
| Assaying | 563.35 |
| Geophysical | 3,009.49 |
| Supervision | 5,179.05 |
| Land Investigation | 1,812.72 |
| *Other | 12,627.87 |
| TOTAL | $ 51,702.21 |

*Other includes Labor, Supplies, Vehicle, Rent, Accounting, Insurance, Telephone, Travel and Lab Studies (Geochemical and Geologic work).

Does not include $369.85 supervision and $2.00 supplies in December, 1974.

PROJECT Wickenburg Kinnison 124-152 PAGE 1

D.D.H. No. WK-1 SCALE 1"=100' BY LCA

LOCATION 1300'E; [redacted]'S of [redacted] COLLAR EL ±24[redacted] DATE 8-31-77 TO 9-7-77

% Core Recovery | Mineralztn | Alteration | Structure | Rock Type

NW COR SEC 18 T 7N R5W. MARICOPA COUNTY.

0 — Strong Clay

0-80 GRAVEL - VERY LIGHT LAVENDER PRINCIPALLY COMPOSED DARK FINE GRAINED EXTRUSIVE LITHOLOGIES & STRONG CLAY CONTENT.

100 — Strong Clay

80-200 MODERATELY CLAYEY GRAVEL - LIGHT GRAY LAVENDER - PRINCIPALLY COMPOSED EXTRUSIVE LITHOLOGIES. NOTE OCCAS. MED GRAINED PORPHYRY.

Sr. Clay

200 — Sr. Clay Cont.

200-305 GRAVEL - LT GRAY LAV. COLOR STRONG CONTENT OF DARK FINE GRAINED EXTRUSIVE LITHOLOGIES AND 10-15% COARSE FRESH GRANITE FRAGS

300

305-530 GRAVEL - LT. GRAY LAV. COLOR COMPOSED OF DARK EXTRUSIVE FRAGS & 10-15% FRESH GRANITE. CLAY CONTENT VARIABLE AS NOTED AT LEFT. NO ALT. FRAGS, MIN FRAGS OR EXOTIC Cu RECOGNIZED.

400

500

530-620 DIORITE - GRAY TO BLACK COARSE GRAINED - GRANITIC TO PEAG. IS VERY FRESH - BIO W/ CLEAN SHINY CLEAVAGES. CARRIES v SP CALCITE FILLED VNLTS. NO EVID. ALT OR MIN RECOGNIZED. SENSITIVE HS.

Spot Core 55/62

600

620-646 TO DACITE PORPHYRY - PINKISH GRAY - MED. GRAINED HIATAL POR. TEX. SUBHEDRAL PLAG TO 1/8 CLEAR TO SLIGHTLY CLOUDED. GROUNDMASS VERY FINE GRAINED W/ 1/16 QTZ "EYES". NO SIGN OF SIGNIF. ALT. OR MIN. RECOGNIZED.

Spot Core 5/62

700

TD

| CORE ASSAYS | | | | | |
|---|---|---|---|---|---|
| INTERVAL | | MINERAL | | | |
| FROM | TO | Cu | Mo | | |
| 0 | 110 | 50 | <2 | | |
| 110 | 200 | 50 | <2 | | |
| 200 | 300 | 45 | <2 | | |
| 300 | 350 | 45 | <2 | | |
| 350 | 365 | 45 | <2 | | |
| 365 | 380 | 50 | <2 | | |
| 380 | 395 | 45 | <2 | | |
| 395 | 410 | 40 | <2 | | |
| 410 | 425 | 65 | <2 | | |
| 425 | 440 | 35 | <2 | | |
| 440 | 455 | 25 | <2 | | |
| 455 | 470 | 30 | <2 | | |
| 470 | 485 | 25 | <2 | | |
| 485 | 500 | 30 | <2 | | |
| 500 | 515 | 25 | <2 | | |
| 515 | 530 | 20 | <2 | | |
| 530 | 545 | 35 | <2 | | |
| 545 | 560 | 25 | <2 | | |
| 560 | 575 | 30 | <2 | | |
| 575 | 590 | 25 | <2 | | |
| 590 | 605 | 30 | <2 | | |
| 605 | 620 | 30 | <2 | | |
| 625 | 635 | 30 | <2 | | |
| 637 | 646 | 5 | <2 | | |
| | TD | | | | |

5 SPOT CORE

PROJECT Wickenburg Kinnison PAGE 1
D.D.H. No. WK-2 SCALE 1"=100 BY L.C. Arnold
LOCATION 1300 E & 2200' South COLLAR EL ±2422 DATE 9-11-77 9-12-77

| % Core Recovery | Mineralizn | Alteration | Structure | Rock Type | Depth | Description | CORE ASSAYS INTERVAL FROM | TO | MINERAL Cu | Mo |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | SENW Cor Sec. 7 T7N R5W Maricopa Co, Az | | | | |
| | | | | | | 0-240 Gravel - Yellowish Gray | 0 | 100 | 25 | <2 |
| | | | | | 100 | Principally composed Lt. colored extrusive lithologies with ±20% frags fresh granite. V. low clay content. | 100 | 205 | 20 | <2 |
| | | | | | 200 | | | | | |
| | | | | | | 240-425 Sand - Lt. Brown | 205 | 300 | 25 | <2 |
| | | | | Mod. Clay | 200 | Strongly arkosic but w/ some Lt. colored extrusive lithologies. Clay content as noted at left | 300 | 360 | 25 | <2 |
| | | | | Strong Clay | | | 360 | 375 | 30 | <2 |
| | | | | | | | 375 | 395 | 30 | <2 |
| | | | | | 400 | | 395 | 410 | 30 | <2 |
| | | | | | | | 410 | 425 | 40 | <2 |
| | | | | | | 425-715 Conglomeratic Mudstone - Lt. Brownish Gray - See descript. Spot core below. | 425 | 440 | 45 | <2 |
| | | | | | | | 440 | 455 | 45 | <2 |
| | | | | | | | 455 | 470 | 45 | <2 |
| | | | | | | | 470 | 485 | 160 | <2 |
| | | | | | 500 | | 485 | 500 | 65 | <2 |
| | | | | | | | 500 | 515 | 45 | <2 |
| | | | | | | | 515 | 530 | 45 | <2 |
| | | | | | | JEK Note: Spot core frags are Lgr, Basalt, Rhy/lat. por, and Banded Rhy. | 530 | 545 | 45 | <2 |
| | | | | | | Spot Core 537-541 | 545 | 560 | 45 | <2 |
| | | | | | | (55/<2) Conglomeratic Mudstone - Lt. Brown | 560 | 575 | 40 | <2 |
| | | | | | 600 | Poorly sorted - well indurated - | 575 | 590 | 50 | <2 |
| | | | | | | No bedding recognized. Arkosic frags | 590 | 605 | 45 | <2 |
| | | | | | | subang ± 1/4-1" - vol. frags larger | 605 | 620 | 50 | <2 |
| | | | | | | to 8". No alt frags or min recognized. | 620 | 635 | 50 | <2 |
| | | | | | | | 635 | 650 | 50 | <2 |
| | | | | | | | 650 | 665 | 50 | <2 |
| | | | | | | | 665 | 680 | 40 | <2 |
| | | | | | 700 | Arkosic frags comprise ±15% tot. vol. | 680 | 695 | 40 | <2 |
| | | | | | | | 695 | 710 | 45 | <2 |
| | | | | | | 715-895 T.D. Granodiorite Gray - pe. | 710 | 725 | 40 | <2 |
| | | | | | | (5/<2) Coarse grained granitic tex. | 725 | 740 | 20 | <2 |
| | | | | | | | 740 | 755 | 15 | <2 |
| | | | | | | | 755 | 770 | 10 | <2 |
| | | | | | | Spot core 776-780 Plagioclase | 770 | 785 | 10 | <2 |
| | | | | | 800 | | 785 | 800 | 20 | <2 |
| | | | | | | Subhedral - clear w/ striations. | 800 | 815 | 5 | <2 |
| | | | | | | Bio. shows clear clean | 815 | 830 | 15 | <2 |
| | | | | | | cleavages - slight re at some | 830 | 845 | 5 | <2 |
| | | | | | | grain margins - no alt. or min. recognized. | 845 | 860 | 5 | <2 |
| | | | | | | | 860 | 875 | 10 | <2 |
| | | | | | | | 875 | 890 | 10 | <2 |
| | | | | | 900 | | 890 | 895 | 15 | <2 |
| | | | | | | Spot Core 890-895 T.D. (15/<2) | | TD | | |
| | | | | | | Biotite Granodiorite - Dark Gray | | | | |
| | | | | | | Med to coarse granitic tex. - Peng. | | | | |
| | | | | | | Euhedral subhedral - v. clean | | | | |
| | | | | | | Bio subhedral - clear w/ v. [illegible] cv. | | | | |
| | | | | | | No [illegible] | | | | |

PROJECT Wickenburg-Kinnison PAGE 1

D.D.H. No. WK-3 SCALE 1"=100' BY L.C. Arnold

LOCATION 6600'E & 2700'S of NW Cor. Sec. 2 T 9N R5W COLLAR EL 2380 DATE 9-14-1970 2-21-77

| % Core Recovery | Mineralization | Alteration | Structure | Rock Type | Depth | Description | CORE ASSAYS INTERVAL FROM | TO | MINERAL Cu | Mo |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0-190 Gravel - Lt yel or orange gray - strongly arkosic | 0 | 100 | 55 | <2 |
| | | | | | 100 | | 100 | 205 | 60 | <2 |
| | | | | Mod. Clay | 200 | 190-280 Gravel - Gray - Arkosic but with 20% mixture fine grained Lt. Col. extrusive lithologies. Mod clay content. | 205 | 295 | 55 | <2 |
| | | | | | 300 | 280-955 Arkosic Gravel - Gray to yellowish gray - strongly arkosic but w/ 15% component of various extrusive lithologies. | 295 | 400 | 55 | <2 |
| | | | | St. Clay | 400 | | 400 | 505 | 55 | <2 |
| | | | | | 500 | | 505 | 595 | 95 | <2 |
| | | | | St. Clay | 600 | | 595 | 700 | 55 | <2 |
| | | | | | 700 | | 700 | 805 | 40 | <2 |
| | | | | Strong Clay | 800 | | 805 | 895 | 40 | <2 |
| | | | | St. Clay | 900 | | 895 | 1000 | 25 | <2 |
| | | | St. Clay | | 1000 | 955-1000 Arkosic Gravel - Lt. Grayish orange - carries sparse Fe stn frags - Fe is transported - no evid alt frags. | | | | |

| % Core Recovery | Mineralization | Alteration | Structure | Rock Type |
|---|---|---|---|---|

PROJECT _____ PAGE 2

D.D.H. No. WK-3 SCALE _____ BY _____

LOCATION _____ COLLAR EL _____ DATE _____

1000 1000-1105 Arkosic Gravel - Lt Gray - very sparse non arkosic frags. - strong clay only as noted at left.

St. Clay

1100

1105-1255 Arkosic Gravel - Grayish orange. - strongly arkosic - frags appear somewhat rounded w/ v low clay content.

1200

1255-1360 T.D. Bio. Qtz Monz.

1288'-1295 Spot core.

1300 Bio. Qtz. Monz. - Dark gray to black v. coarse granitic tex. K-spar phenocrysts ¼" to ½". All feldspar very [redacted] Bio. very clear - no sign alt or min recognized.

TD

| CORE ASSAYS | | | | | |
|---|---|---|---|---|---|
| INTERVAL | | MINERAL | | | |
| FROM | TO | Cu | Mo | | |
| 1000 | 1105 | 15 | <2 | | |
| 1105 | 1120 | 25 | <2 | | |
| 1120 | 1135 | 25 | 2 | | |
| 1135 | 1150 | 50 | <2 | | |
| 1150 | 1165 | 20 | <2 | | |
| 1165 | 1180 | 20 | <2 | | |
| 1180 | 1195 | 30 | <2 | | |
| 1195 | 1210 | 20 | <2 | | |
| 1210 | 1225 | 15 | <2 | | |
| 1225 | 1240 | 20 | <2 | | |
| 1240 | 1255 | 20 | <2 | | |
| 1255 | 1270 | 15 | <2 | | |
| 1270 | 1285 | 15 | 2 | | |
| 1285 | 1300 | 20 | <2 | | |
| 1300 | 1315 | 20 | 2 | | |
| Sample [illegible] | | | | | |
| 1345 | 1360 | 20 | 2 | | |

# INTER-OFFICE MEMORANDUM

TO (NAME, LOCATION, ZIP)

J. E. Kinnison
Tucson, Arizona

DATE

June 25, 1973

FROM (NAME, DEPT., LOCATION, ZIP)

G. L. Richardson
Tucson, Arizona

COPIES TO

File

SUBJECT

VULTURE MOUNTAINS - GEOLOGIC REPORT

Enclosed is the summary report on the Vulture Mountains. The main body of the report consists of a geologic report applicable more specifically to the northeast Vulture Mountains. The structure and rock descriptions apply to the entire area of the reconnaissance geologic map.

/fn
Enclosure

# GEOLOGY OF THE VULTURE MOUNTAINS

# MARICOPA COUNTY

# ARIZONA

## Introduction

The area of the northeast Vulture Mountains was selected as the area of greatest economic potential from a vast area mapped on a reconnaissance basis during 1971 and 1972 (Attachment A). Nineteen square miles (Attachment B) were mapped in detail during the summer and fall of 1972. Excellent color photos at a scale of 1 inch to 1000 feet (1:12,000) were used during late August of 1972 to clarify structurally complex areas.

## Location and Accessibility

The area of the detailed geologic map of the northeast Vulture Mountains (Attachment B) is approximately three miles southwest of Wickenburg on the Vulture Mine Road, a graded country road. The relief is low in the mapped area; 200 to 250 feet of relief exist between valley floor and the major peaks. Accessibility is excellent with an abundance of four wheel drive vehicle tracks throughout the area.

## General Geology

The mapped area of the northeast Vulture Mountains is one

small part of a structurally complex elongate Laramide-age intrusion (Attachment A) overlain by mid-Tertiary volcanic rocks. Block faulting and tilting of the entire sequence took place during mid- to late Tertiary. The trend of the Laramide granite is northeast and at least 45 miles long averaging 2 to 3 miles in width. Twenty-six miles of the trend are shown on Attachment A. The trend of the late Tertiary volcanic ridges is northwest, at approximately right angles to the Laramide granite trend. The exposed volcanics are dipping at moderate to steep angles (40 to 80 degrees) to the northeast. The volcanic ridges transect the contacts of the Laramide granite with the pre-Cambrian complex without a change in strike. Stratigraphic and igneous relationships in the Vulture Mountains suggest chronologically the intrusion of a lenticular mass of Laramide granite parallel to the pre-Cambrian grain of the area followed by erosion of the pre-Cambrian and Laramide surfaces and the development of a basal conglomerate (see rock descriptions). Following the development of the conglomerate and during mid-Tertiary time, a complex sequence of volcanic flows was deposited conformably on the top of the basal conglomerate. Later faulting has rotated the volcanic rock sequence to its present attitude (see Attachment A).

## Geology of the Northeast Vulture Mountains

The detail mapped area (Attachment B) includes rocks ranging in age from pre-Cambrian to late Tertiary. A detailed megascopic rock description follows in the order of oldest to youngest.

## ROCKS

### Pre-Cambrian Rocks

The pre-Cambrian rocks exposed in the northeast Vulture Mountains consist principally of coarse-grained granite containing reabsorbed quartz, pink feldspar, ragged unevenly distributed biotite, hornblende, and minor muscovite. A complex of medisedimentary rocks, mostly schists, are distributed throughout the pre-Cambrian basement, but they were only noted and not described.

### Tertiary Rocks

Laramide granite and diorite. The majority of the area shown on Attachment B is underlain by medium-grained equigranular granite and diorite composed of quartz, feldspar, biotite, muscovite, and hornblende. The mafic constituents are evenly distributed throughout the rock, and the biotite occurs as discrete euhedral platelets. The granite is considered Laramide in age based on textural characteristics and age data (Rerig, 1972, oral communication).

Basal conglomerate. The pre-Cambrian rocks and the Laramide granite are unconformably overlain by a red, coarse-grained to arkosic conglomerate. The conglomerate contains abundant rounded pebbles and cobbles of pre-Cambrian granite and schist. Some Laramide granite pebbles are thought to be present in the conglomerate, but pre-Cambrian derived rocks predominate. The conglomerate varies in thickness from 100 to 175 feet in the mapped area. In many cases the contact between the upper surface of the weathered granites and the bottom of the conglomerate is

gradational. Poorly developed stratification is present in the upper portions of the conglomerate. A pebble orientation study by John Sandy indicates the pre-tilted source of the conglomerate was from the northeast.

Andesite porphyry dikes and sills. At least two stages of andesite porphyry intrusion are present in the northeast Vulture Mountains. The youngest stage of andesite porphyry intrusion is represented by a single faulted dike which occurs just west of the words "Buzzard Basin" on Attachment B. This discontinuous dike can be traced along trend to the southeast where it crosscuts the basal conglomerate. Whether the entire andesite porphyry dike and sill episode is younger than the extrusive volcanic sequence is questionable, but in part it is younger than the formation of the basal conglomerate. The low southwestward-dipping dikes and sill of andesite porphyry mapped on Attachment B are cutting Laramide granite, and beyond the detailed area they transect the pre-Cambrian basement (Attachment A). Megascopically, the dike and sill rock consist of a reddish porphyritic rock with 70% evenly distributed white euhedral equidimensional feldspar phenocrysts averaging 5mm in length. There are several variations of this rock type which are correlated with it based on lateral gradation from one type to another. The dikes are from 2 to 10 feet in thickness. Most of the apparent width of the dikes indicated on Attachment B is due to their low angles and the abundant talus derived from these

dikes. Several sills of andesite porphyry occur along the trend of the dikes and attain thicknesses of 30 feet and show columnar jointing. Outside of the detailed area, in the pre-Cambrian metamorphic rocks, well developed concordant sills of andesite porphyry are present.

EXTRUSIVE VOLCANIC AND RELATED ROCKS

Rhyolite. The rock unit designated as rhyolite on Attachment B is composed of very find-grained, light-colored (grays, yellows, and pinks) volcanic rocks. The base of this unit is composed of a bright yellow, strongly jointed bed from 2 to 5 feet thick. The average total thickness of the unit is 250 feet, but this thickness is extremely variable, from 100 to 400 feet. The rhyolite conformably overlies the basal conglomerate.

Andesite. Above the rhyolite and conformably overlying it is a distinctive andesitic flow unit. The andesite unit is a complex of dark gray to purple, dense to vesicular aphanitic rocks. Where vesicules occur in the andesite unit they have been flattened parallel to the trend of the unit. The vesicules are partially-filled, forming amygdaloidal structures containing epidote, calcite, and silica. The thickness of the unit varies between 100 and 300 feet. The unit is consistent in character throughout the mapped area.

Vitrophyre. An extensive dark brown to black vitrophyric flow conformably overlies the andesite with an abundance of irregular flow structure due to its highly viscous nature when deposited. The massive unit is devitrified locally and white

in color. In the area of Twin Peaks (Attachment B) the upper portion of the vitrophyre grades into a flow banded dacite with remnant glass shards flattened parallel to the flow structure. The vitrophyre may have been plastic during some of the faulting and tilting of the volcanic and sedimentary units because the unit shows characteristics of stretching and draping. The true thickness of this unit is unknown; it varies from 200 to 500 feet in the mapped area.

Agglomerate. This unit is questionable in origin due to its lithologic character and cross-cutting occurrence. Lithologically the unit is a yellow to white lithified volcanic ash containing angular to subangular fragments of granite and andesite. The unit may be partially water laid, but no good graded bedding was found. Genetically the agglomerate may be tied to the vitrophyre unit. The unit averages 250 feet in thickness.

Basalt. The basalt unit in part unconformably overlies the other volcanic units. It is locally draped over most of the other previously described units particularly when it is directly underlain by the vitrophyre. For the most part, the basalt is tilted in much the same way as the previously described volcanic rocks. The basalt is dark gray to black and extremely dense. The base of this unit is a bright red basalt 40 to 60 feet thick where exposed. The total thickness of the basalt unit is unknown.

"Gila" conglomerate. Two areas of lithified conglomerate occur in the very northwest area mapped (Attachment B). The conglomerate contains rounded pebbles, cobbles, and boulders

of volcanic rocks, mainly dense basalt and vesicular basalt. The conglomerate is well cemented by a fine-grained, white to yellow "volcanic ash." The conglomerate unconformably overlies the tilted sedimentary and volcanic rocks.

QUATERNARY DEPOSITS

Alluvium. The alluvial deposits present in the detailed area of Attachment B consist of unconsolidated sand and gravel of granitic origin.

Talus. Angular boulders, pebbles, and cobbles of volcanic rocks cover the bedrock geology on many of the steeper slopes in the mapped area.

## Structure

The enclosed geologic map and cross sections (Attachments B and C) indicate the complexities of the structural history of the northeast Vulture Mountains.

The predominant movement occurred along northwest-trending normal faults which have tilted the tabular rock sections. These faults follow contacts between the volcanic units described. The predominant horizon of normal faulting is that contact between the vitrophyre and the agglomerate (Attachment B). Fault traces are indicated on the geologic map where any volcanic unit comes into direct contact with either the Laramide granite or the pre-Cambrian basement. These fault traces were field checked, and the majority do show shear deformation associated with them. Furthermore, cuttings from several drill holes by earlier workers in Paul's Basin and Buzzard Basin suggest that Laramide granite underlies the tilted volcanic and sedimentary blocks (Attachment C).

Numerous groups of high angle strike-slip, and normal faults are present. These faults in general trend west-northwest and east-northeast dipping at high angles both north and south. Many of the strike-slip faults are associated with the major tension and shear directions, coupled with compressional stresses created by northeast-southwest normal faulting in the northwest-trending volcanic ridges.

In summary, two predominant types of faulting are present in the mapped area: normal faulting parallel to the trend of the tilted volcanic and sedimentary rocks, and strike-slip faults at high angles to the trend of the tilted volcanic and sedimentary ridges.

## History

A simplified history directly related to the area shown on Attachment B suggests a mechanism which may be applicable to much of the area along the trend of the Laramide granite shown on the reconnaissance map (Attachment A).

Briefly after the intrusion of Laramide granite along a zone of weakness in the pre-Cambrian basement, the entire area was eroded, and a basal conglomerate was formed. During mid-Tertiary time at least 1500 feet of volcanic and volcanic-related deposits were conformably deposited on top of the conglomerate forming plateau country to the northeast. High-angle, northwest-trending normal faults developed in the volcanic plateau area which rotated sections of the volcanics southwestward forming a series of parallel to subparallel ridges. These normal faults flattened at depth in the basement rocks and produced huge separate blocks which

slipped away from the plateau area producing greater rotation in the volcanic sequences lying above the basal conglomerate (Attachment C). The erosional remnants of at least three of these blocks are shown in Attachment B, and at least six major blocks were recognized from reconnaissance mapping (Attachment A). Each major block of tilted volcanics contains numerous parallel normal faulting and associated sub-blocks of tilted volcanic and sedimentary rocks. This mechanism is virtually a classic example of the "domino effect" with relative movement between blocks occurring along curvi-planar surfaces rather than purely planar surfaces. This mechanism is consistent with regional tectonic thought which encompasses the entire Basin and Range Province. The Basin and Range Province is predominantly an area of northwest-trending mountain ranges and associated parallel alluvial-filled valleys. The other direction of elongated ranges is east-northeast (trend of Laramide granites). From the mass of regional magnetic and seismic data gathered throughout the past 50 years, it is generally concluded that the thickness of the crust beneath the Basin and Range Province is appreciably thinner than its associated plateau areas to the northeast and the Sierra Nevadas and Cascade Range on the west and southwest. The Basin and Range Province is a product of tension release along major northwest faults caused by the release of regional extension in a northeast-southwest direction. The major proposed lineament directions are northwest-southeast, and the trend of most Laramide granites in southwest Arizona, at least, is east-northeast, which is the direction of maximum shearing in the proposed regional model.

**QUINTANA MINERALS CORPORATION**
1892 WEST GRANT ROAD
TUCSON, ARIZONA 85705
PHONE 622-4801

1761

91-313
1121

SEP 24 1973 19

PAY TO THE ORDER OF John E. Kennison $ 3157.81

INSURED 3157 DOLS 81 CTS DOLLARS
737211

TUCSON DOWNTOWN OFFICE, TUCSON
FIRST NATIONAL BANK OF ARIZONA

FOR

William E. Sargent

⑆1121⑈0313⑆ 651⑈12170⑈

ROCKY MT. BANKNOTE CO. H

Payment for 0103
Bighorn/Vulture Recom.

Dep to Savings 2557.81
Dep to Comp Ck .600 —
3157.81 ck

Oct 1, 73

3157.81
600
2557.81

Mining Geologist
Registered: Arizona
California

JOHN E. KINNISON
Rt. 1, Box 621-B
Tucson Arizona
85704

Home
(602)297-1952

September 20, 1973

Mr. W. E. Saegart
Quintana Minerals Corporation
Tucson, Arizona

Statement: Job 0103
Vulture/Bighorn Reconnaissance,
Arizona.

Dear Bill,

The following are my charges for the field work done for the subject reconnaissance. You have received my verbal report, and the field work is terminated.

| | |
|---|---|
| Professional fee: 13 days @ $175.00 | $2,275.00 |
| Travel expense | 445.96 |
| One month's rental fee ($200) for Blazer, reduced to compensate for partial use | 140.00 |
| Milage as charged @.09¢ per mile, less $68.40 charged to another job | 266.85 |
| Insurance for Blazer | 30.00 |
| Total | $3,157.81 |

An itemized accounting and major receipts are attached.

Yours very truly,

John E. Kinnison

John E. Kinnison

Thanks
Johnny

Mining Geologist
Registered: Arizona
California

JOHN E. KINNISON
Rt. 1, Box 621-B
Tucson Arizona
85704

Home
(602)297-1952

TRIP RECORD AND TRAVEL EXPENSE

Re: Job 0103

Vulture/Bighorn Reconnaissance, Arizona

Quintana Minerals Corporation

| DATE | TRIP | AUTO* | MEALS GROC | HOTEL BILL | TIPS SUNDRY | MISC |
|---|---|---|---|---|---|---|
| 8/8/73 | Tuc - Wick Via Vulture Mts | 5.45 | 6.75 | | | 3.60 Cool Cushion |
| 8/9 | Wick - RT " " " | 5.75 | 15.25 | | | |
| 8/10 | Wick - Tuc " " " | 8.65 | 9.00 | 29.25 | 2.95 | |
| | Auto Malfunction Return for Repairs | | | | | |
| 8/27 | | 5.80 | | | | 2.10 Tire inflator |
| 8/29 | Tuc - Wick Via E. Big Horn Mt. | 8.80 | 15.35 | 16.55 | | |
| 8/30 | Wick - PHX " " " | 3.45 | 11.50 | 15.60 | 4.00 | |
| 8/31 | PHX - Wick " W. Big horn Mt. | 11.60 | 12.85 | | | |
| 9/1 | Wick RT " N & W Bighorn Mt | 5.70 | 12.85 | | .50 | |
| 9/2 | " " Via NW " " | 7.40 | 9.45 | 45.45 | | |
| 9/3 | Wick - PHX Via NW " " | 10.13 | 8.10 | 8.40 | 1.25 | |
| 9/4 | PHX - Tuc | | 2.50 | | | |
| | Auto Malfunction Return for Repairs | | | | | |
| 9/10 | Tuc - PHX | 6.55 | | 12.79 | | |
| 9/11 | PHX - Wick Via W. Big Horn Mt | 12.44 | 14.00 | | 1.00 | |
| 9/12 | Wick RT Via N. Big Horn Mt | 5.15 | 11.15 | 30.85 | | |
| 9/13 | Wick RT Via W & S Big Horn | 6.40 | 9.00 | 15.45 | 1.00 | |
| 9/14 | Wick - Tuc Via W. Vulture Mt. | 7.20 | 7.00 | | | |
| | Totals | 110.47 | 144.75 | 174.34 | 10.70 | 5.70 |
| | GRAND TOTAL | 445.96 | | | | |

*Auto: Gas & tire repairs

NO. NAME Kinnison

| | | |
|---|---|---|
| | 11.00 | |
| | 00.44 | |
| 233#31 | 11.44 | BAL |
| | 01.69 | |
| 386#-1 | 13.13 | BAL |
| | 11.00 | |
| | 00.44 | |
| 420#-1 | 24.57 | BAL |
| | 05.50 | |
| 486#-1 | 30.07 | BAL |
| | 11.00 | |
| | 00.44 | |
| 631#-1 | 41.51 | BAL |
| | 03.94 | |
| 668#-1 | 45.45 | BAL |
| | 45.45 | PAID |
| 789#-3 | 00.00 | BAL |

Rancho Grande 1143

293 EAST CENTER STREET
WICKENBURG, ARIZONA 85358
(602) 684-5445
OPERATED BY GREAT WESTERN HOSTS

NAME John E. Kinnison

ADDRESS Rt 1 Box 621-B

CITY Tucson STATE Ariz ZIP CODE

REPRESENTING Kinnison & Nabors Engineers

| NO. IN PTY. | MAKE OF CAR | LICENSE NO. | STATE REGISTERED IN |
|---|---|---|---|
| 1 | Blazer | 2EC 335 | Ariz |

| RATE | LENGTH OF STAY | DATE ARRIVED |
|---|---|---|
| 11- | 3 | 615 AU |

NAME Kinnison

| | | |
|---|---|---|
| | 12.00 | RC |
| | 00.48 | TAX |
| 321#11 | 12.48 BAL | |
| | 04.62 | LDPH |
| 324#11 | 17.10 | BAL |
| | 12.00 | RC |
| | 00.48 | TAX |
| 436#12 | 29.58 | BAL |
| | 01.17 | LDPH |
| 489#12 | 30.75 | BAL |
| Personal No Chg to Owner | 06.28 | LDPH |
| 504#12 | 37.03 | BAL |
| | 37.03 | PAID |
| 626#13 | 00.00 | BAL |

-6.28
$30.85

Chg Owner
Big Horn Vulture

Rancho Grande 09404

293 EAST CENTER STREET
WICKENBURG, ARIZONA 85358
(602) 684-5445
OPERATED BY GREAT WESTERN HOSTS

NAME John E. Kinnison

ADDRESS Rt 1 Box 621-B

CITY Tucson STATE Ariz ZIP CODE

REPRESENTING Kinnison Engineers

| NO. IN PTY. | MAKE OF CAR | LICENSE NO. | STATE REGISTERED IN |
|---|---|---|---|
| 1 | Blazer | 2EC 335 | Ariz |

| RATE | LENGTH OF STAY | DATE ARRIVED |
|---|---|---|
| 12.00 | 2 | 658 SEP 11 |

## ALLOWANCE

DEPARTMENT

DATE 9/10 1973

NAME ROOM OR ACCT. NO. 121

DATE SYMBOL AMOUNT

Telephone

PAID SEP 11 1973

Kon Tiki Motel PHX

DO NOT WRITE IN ABOVE SPACE

EXPLANATION A -1.24

WESTERN HOTEL SUPPLY – PHOENIX, ARIZONA
NCR 42 FORM NO. 59

SIGNED BY MLA

## ALLOWANCE

DEPARTMENT

DATE 19

NAME ROOM OR ACCT. NO. 121

DATE SYMBOL AMOUNT

A 11.55

PAID SEP 10 1973

11.55
1.24

Kon Tiki Motel PHX

DO NOT WRITE IN ABOVE SPACE

EXPLANATION 12.79

WESTERN HOTEL SUPPLY – PHOENIX, ARIZONA
NCR 42 FORM NO. 59

SIGNED BY MLA

## GUEST RECEIPT

Date Sept 13 1973

Received of Mr John Kinnison for

Room Occupancy from 9-13-73 to 9-14-73

$ 15.45

CHECK OUT HOUR 11 O'CLOCK A.M. Noon P.M.
An additional charge will be made for room retention after this hour.

Room No. 5

**BRISTOL MOTEL**

P. O. Box 884 — Phone: 684-5571 — Wickenburg, Arizona 85358

Rate per (D) (W) (M)
$ 15.00 Tax .45

By Carl M. Black

DEPOSIT
$ Paid in full

Form 151

| NAME | ROOM NO. | DATE OUT |
|---|---|---|
| Kinnison John | 19 | 8-31-73 |

017689

THERE ARE OVER 1000 BEST WESTERN MOTOR HOTELS IN THE U.S.A. AND CANADA

| DATE IN | NO. IN PARTY | RATE |
|---|---|---|
| 8-30-73 | 2 | 15.75 |

ST. ADDRESS Rt.1 Box 621 B

CITY Tucson Ariz STATE ZIP CODE

THURSDAY AUG 31 1973

"LET US MAKE A RESERVATION FOR YOUR NEXT NIGHTS LODGING"

| DATE | REFERENCE | CHARGES | CREDITS | BALANCE DUE | PICK-UP |
|---|---|---|---|---|---|
| 30 ROOMS | | 12.60 | 12.60 | .00 * | |
| 30 TELLD | | 5.53 | | 5.53 * | |
| 31 CSH | | | 5.53 | .00 * | 5.53 |

Chg 3.00 only to Quintana

12.60
3.00
15.60
Chg

Quintana
Wilbur/Bighorn

PLEASE PAY THIS AMOUNT

X _____ GUEST'S SIGNATURE

Hotel Desert Inn

Desert Hills
2707 E. VAN BUREN STREET
PHOENIX · ARIZONA · 85008

'EST VAN BUREN STREET • PHOENIX • ARIZONA 85007

ADVANCE PAYMENT REQUESTED

# Deserama Motel

2853 E. VAN BUREN • PHOENIX, AZ 85008

... 273-7477

CHECK OUT 12 NOON
$1.00 PER HOUR AFTER

## REGISTRATION — RECEIPT

| DATE IN | NO. GUESTS | ROOM NO. | RATE | DATE OUT |
|---|---|---|---|---|
| 9/3 | 1 | 50 | 8.00 | 9/4 |

NAME John E Kinnison

STREET Rt 1 Box 621-B

CITY Tucson STATE Ariz

LICENSE NO. 28C 335 STATE Ariz

DRIVER'S LICENSE NO. STATE

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | X | | | | | |

THIS PROPERTY IS PRIVATELY OWNED AND THE MANAGEMENT RESERVES THE RIGHT TO REFUSE SERVICE TO ANYONE, AND WILL NOT BE RESPONSIBLE FOR ACCIDENTS, OR INJURY TO GUESTS AND CARS, OR FOR LOSS OF MONEY, JEWELRY, OR VALUABLES OF ANY KIND.

DATE PAID 9-5

CLERK KG

| | |
|---|---|
| ROOM | 8.00 |
| TAX | 40 |
| TELE. | |
| MISC. | |
| TOTAL | 8.40 |

MEMO:

THIS IS YOUR RECEIPT ISSUED FOR YOUR CONVENIENCE: WE APPRECIATE YOUR PATRONAGE

GUEST COPY

05314

PRINTED BY THE STANDARD REGISTER COMPANY, U.S.A.

ROOM NO. | NAME Kinnison | 646 AUG 8

| | | | |
|---|---|---|---|
| | | 11.00 | RC |
| | | 00.44 | TAX |
| | 8032-8 | 11.44 BAL | |
| | | 03.37 | LDPH |
| | 8212-8 | 14.81 BAL | |
| | | 11.00 | RC |
| | | 00.44 | TAX |
| | 9232-9 | 26.25 BAL | |
| | Reduce to 3.00 | 04.69 | LDPH |
| | 9872-9 | 30.94 BAL | |
| | | 30.94 PAID | |
| | 1112 10 | 00.00 BAL | |

30.94
− 1.69
29.25
Chg

Quintana
Vultaire/Bighorn

Rancho Grande
293 EAST CENTER STREET
WICKENBURG, ARIZONA 85358
(602) 684-5445
OPERATED BY GREAT WESTERN HOSTS
10843

NAME John E Kinnison
ADDRESS Rt 1 Box 621 B
CITY Tucson STATE Ariz ZIP CODE
REPRESENTING Kinnison & Nabors Eng.

| NO. IN PTY. | MAKE OF CAR | LICENSE NO. | STATE REGISTERED IN |
|---|---|---|---|
| 1 | Blazer | 2 EC 335 | Ariz |

| RATE | LENGTH OF STAY | DATE ARRIVED |
|---|---|---|
| 11.00 | 1 | 646 AUG 8 |

ROOM NO. 1 | NAME Kinnison

| | | | |
|---|---|---|---|
| | | 11.00 | RC |
| | | 00.44 | TAX |
| | 8082 29 | 11.44 BAL | |
| | | 05.11 | LDPH |
| | 8562 29 | 16.55 BAL | |
| | | 16.55 PAID | |
| | 9362 30 | 00.00 BAL | |

Quintana
Vultaire Bighorn

Rancho Grande
293 EAST CENTER STREET
WICKENBURG, ARIZONA 85358
(602) 684-5445
OPERATED BY GREAT WESTERN HOSTS
11374

NAME John E Kinnison
ADDRESS Rt 1 Box 621-B
CITY Tucson STATE Ariz ZIP CODE
REPRESENTING Kinnison & Nabors Engineers

| NO. IN PTY. | MAKE OF CAR | LICENSE NO. | STATE REGISTERED IN |
|---|---|---|---|
| | Blazer | 2 EC 335 | Ariz |

| RATE | LENGTH OF STAY | DATE ARRIVED |
|---|---|---|
| 11 | 1+ | 145 AUG 2 |

Blazer Rental ABLCO

Total Miles @ 9¢ 3725 $335.25

Brockman Hills 560
Personal 200
760 @ 9¢ 68.40

Chg Quintana $-266.85

Brockman Hills: Rec @ 10¢/Mile $56.0

Monthly Chg $200
Absorb 60
Chg Quintana $-140

Rec Brockman Hills: $30

| | |
|---|---|
| Milage | 266.85 |
| Rental | 140.00 |
| Insurance | 30 |
| | 436.85 |

Mining Geologist
Registered: Arizona
California

JOHN E. KINNISON
Rt. 1, Box 621-B
Tucson Arizona
85704

Home
(602)297-1952

Sept 21 1973

Mr Jack Wirfler
ABLCO INC
720 N. Longfellow
Tucson Arizona

Re: Inv. 2697

Dear Jack:

I am enclosing a check for $302.97, for the balance due on the subject invoice, for rent and charges on a 4WD Blazer as described, computed as follows:

| | |
|---|---|
| Invoice Total | $535.25 |
| Less $200 deposit + 32.28 Repairs | 232.28 |
| Balance Due | $302.97 |

Copies of receipts for repairs are attached.

Thank you for this chance to do business with you —

Yours

John E Kinnison

4400 East Broadway, Suite 104, Tucson, Arizona 85711 • Telephone (602) 327-6623

# UNITED PALOMAR COMPANY

GENERAL INSURANCE

August 16, 1973

ABLCO Inc.
720 N. Longfellow
Tucson, Arizona 85711

Re: John E. Kinnison

Gentlemen:

Please be advised that we are providing coverage on the vehicle leased from you by Mr. Kinnison. Our coverages are as follows:

| | |
|---|---|
| Bodily Injury Liability | $100,000 each person<br>$300,000 each occurrence |
| Property Damage Liability | $ 10,000 each occurrence |
| Comprehensive | Actual Cash Value |
| Collision | Actual Cash Value less<br>$100 Deductible |

We are presently in the process of issuing endorsements and as soon as these are received a Certificate of Insurance shall be sent to you. It is entirely possible that this will take two or three weeks and therefore may not be of any real value as the terms of the rental (to my understanding) will be approximately one month.

Should you have any questions or wish to discuss this please do not hesitate to give me a call.

Very truly yours,

Bill Brabenec

WILLIAM C. BRABENEC

WCB/jw

cc: Mr. John E. Kinnison
Rt. 1 Box 621B
Tucson, Arizona 85704

YOUR Independent Insurance AGENT
"SERVES YOU FIRST"
Reg. U.S. Pat. Off.

# A B L C O, INC.

720 N. LONGFELLOW
TUCSON, ARIZONA 85711

JACK WIRKLER
PHONE: 325-5907

-4122
5-1856

2697

| EXPIRATION | STATE | DRIVER'S LICENSE | RENTAL RATE | VEHICLE NO. | DEPOSIT |
|---|---|---|---|---|---|
| | | | $200. PER month PLUS .09¢ PER MILE | #1,1972 Chev Gold Blazer | CHECK $ 200.00<br>CASH $ |

PAYLOAD LIMIT

COMMENTS:
Serial No. CKE182S142823. 1972 License Plate 2CK335.

3725
9
335.25

No fuel furnished.

WILL RETURN 1 month
TIME IN Sept. 15.
TIME OUT 9:30am Aug. 8, 1973

**COLLISION PROTECTION** - By his initial, Rentee agrees to pay an additional fee of $1.50 per day or fraction thereof and Bogard's Nationalease agrees to relieve Rentee of all liability for collision damage to the Bogard's vehicle referred to herein while it is used, or driven in conformity with this rental agreement, but Rentee shall be fully liable for all such damage if said vehicle is used, or driven in violation of any law or this rental agreement. The "COLLISION PROTECTION" afforded under this agreement DOES NOT RELIEVE RENTEE of liability for damage resulting to the vehicle as result of careless, reckless or abusive handling by the driver. For example: Damage to the vehicle caused by driving under low bridges, roofs, trees or signs; the striking of immobile objects such as parts or loading platforms; or the improper overloading of the vehicle WILL NOT BE COVERED. I have read and agree to above conditions:

CUSTOMER'S SIGNATURE

| | | | |
|---|---|---|---|
| TOTAL TIME 1 month | @ 200.00 | 200.00 | |
| MILES IN 46472 | | | |
| MILES OUT 42747 | | | |
| TOTAL MILES 3725 | @ 9¢ | 335 | 25 |
| SALES TAX | | | |
| GROSS RECEIPTS TAX | | | |
| COLLISION COVERAGE | | | |
| CLEAN-UP CHARGE | | | |
| | | | |
| | | | |
| TOTAL RENTAL | | 535 | 25 |
| → LESS | | | |
| PAY THIS AMOUNT | | | |

## TRUCK RENTAL AGREEMENT

IN CONSIDERATION of the covenants herein and on the reverse hereof contained, BOGARD'S Nationalease, as Owner, hereinafter referred to as "Bogard's", hereby rents to the undersigned "Rentee", upon the terms, covenants and conditions herein set forth, the motor vehicle described above, hereinafter referred to as "Vehicle":

1. For the period beginning and ending at the times stated above, Rentee agrees that his failure to return the vehicle to the hereinabove described "Check In Stations", at or prior to the time stated, will constitute Unauthorized Use and Fraudulent Concealment of the vehicle by Rentee.
2. Permission to drive and use the Vehicle is limited exclusively to the Rentee, or his duly authorized agent or employee, unless written consent of Bogard's is endorsed hereon.
3. Rentee expressly agrees to pay to Bogard's on demand:
   (a) A mileage charge computed at the rate specified in the current Bogard's rate schedule or as quoted on rental agreement for the mileage covered by said vehicle during the period of this rental.
   (b) Service and time charges computed at the rate specified in the current Bogard's rate schedule or as quoted on rental agreement for the period of this rental.
   (c) A sum equal to the value of all tires, parts, tools and accessories lost or stolen from the vehicle.
4. It is expressly agreed that the rentee is not the agent, servant or employee of Bogard's in any manner whatsoever.
5. Rentee acknowledges that he has personally examined the motor vehicle and agrees that it is in good, usable condition and repair, and that he will return it promptly to Bogard's at the Check-In Station designated on the same side hereof.

**See other side for additional terms**

SIGNED RENTER John E Kannison EMPLOYED BY Self

HOME ADDRESS Rt 1 Box 621-B Tucson 85704

NAME John Kannison Quintana Chgs

ADDRESS 2506 North Alvernon 1 Mo less $60 $ 140

CITY & STATE Tucson, Arizona 85711 Milage less 68.40 266.85

P. O. NUMBER

Thank You

**WE APPRECIATE YOUR BUSINESS**

**SEE REVERSE SIDE**

CHECKED IN BY

As further consideration for the hiring of the motor vehicle described on the face of this agreement, Rentee agrees with Bogard's.

## 6. Speedometer

Rentee will not tamper with the speedometer, and if the same shall show signs of having been disconnected or tampered with, or for any reason shall be broken or become inoperative, Bogard's at its option, may charge Rentee on the basis of $5.00 for each hour the motor vehicle is in Rentee's possession.

## 7. Repairs

Rentee shall not permit any repairs to the motor vehicle or permit any lien to be placed upon the motor vehicle without Bogard's written consent; and Rentee will pay any and all unauthorized charges in connection with the use or safe-keeping of the motor vehicle.

## 8. Accidents or Breakdowns

In the event of any collision or accident or breakdown involving the motor vehicle, Rentee forthwith shall report the same to Bogard's and follow Bogard's instructions in respect thereto. In any event, Rentee shall promptly furnish a written report of any accident, no matter how slight, giving the names and addresses of all parties and witnesses involved, and the license numbers of vehicles involved.

## 9. Indemnification of Bogard's

Rentee expressly agrees to indemnify and hold Bogard's harmless of, from and against any and all loss, costs of collection, damages, attorney's fees, expense and liability growing out of, or resulting from this contract, or the use of the motor vehicle by Rentee; and in the event that suit is instituted by Bogard's to recover possession of the motor vehicle, or to enforce any of the terms of this agreement, or to collect any sums of money, damages or costs from Rentee hereunder or any sum of money for the use or rental of the motor vehicle. Rentee shall pay all costs and reasonable costs of collection and attorney's fees incurred by Bogard's in such suit or suits.

## 10. Use

Rentee agrees that the motor vehicle shall not be operated:

(a) By any person other than Rentee or his duly authorized agent; and in any event by any person (1) under the age of 21 years, (2) not holding a valid driver's license;
(b) For the transportation of persons or property for hire, express or implied;
(c) In any race or speed test or contest;
(d) To propel or tow any vehicle;
(e) By any person while under the influence of intoxicants or narcotics;
(f) For any illegal purpose;
(g) In violation of any law or ordinance;
(h) Outside of the scope of the driver's employment and the usual course of the trade, business, profession or occupation of the Rentee;
(i) Recklessly as to speed or otherwise;
(j) Rentee agrees to notify Bogard's of change of driver(s), and to arrange for the Owner to safety-check any additional driver(s).

## 11. Keys

Rentee agrees to keep vehicle locked at all times when unoccupied and to keep keys on his person.

## 12. Deposit

The deposit paid by Rentee and noted on the face of this agreement will be credited upon the rental and other charges accruing under the terms of this agreement only in the event Rentee shall fully and faithfully perform all of the terms and conditions contained in this agreement. In the event Rentee shall breach any of the terms or conditions of this agreement, said deposit shall be retained by Bogard's as additional consideration for this agreement, and Rentee shall be required to pay in addition thereto all of the rentals and other charges herein provided to be paid by Rentee.

## 13. No Changes Without Written Consent

No changes in the terms of this agreement shall be valid unless endorsed hereon and signed by Bogard's and Rentee.

## 14. Insurance

During the period covered by this rental agreement, in the event Rentee has no other insurance policy for public liability or property damage covering the operation or use of a motor vehicle, Bogard's will make available to Rentee insurance coverage on the vehicle described herein with the following limits:

Public Liability $100,000 for bodily injury to or death of one per[illegible] a result of any one accident, $300,000 for bodily injury to or death of all [illegible]ns as a result of any one accident. Property Damage: $50,000 for damage to property of others as a result of any one accident.

Rentee is subject to the terms, covenants, conditions, limitations and restrictions thereof, and is bound by such terms, covenants, conditions, limitations and restrictions, even though all of them are not outlined in this agreement.

The Insurance shall not cover any liability for injury to or death of the Rentee, nor the liability of said Rentee for injury to or death of any person riding as a guest or passenger in or upon, or entering or alighting from, the vehicle described in this lease agreement, or any liability imposed upon or assumed by the Rentee under any Workmen's Compensation Act, plan or law, or any contract of whatsoever kind, nature or character.

The Rentee agrees to report immediately in writing to Bogard's any accident involving the vehicle described in this lease agreement, and in any event within twenty-four hours after the accident in question, and to deliver to Bogard's or the insurance carrier of Bogard's, within twenty-four hours receipt, of every process, pleading, or paper of any kind relating to any and all claims, suits, and/or proceedings received by Rentee or his duly authorized driver.

The Rentee or his duly authorized driver shall not in any manner, aid or abet any claim, but shall cooperate fully with Bogard's or the insurance carrier of Bogard's in all matters connected with the investigation and defense of any claim or suit.

In the event of the violation of any of the terms, covenants, con[illegible]s, limitations or restrictions of this lease contract, or the insurance policy herein referred to, the insurance so made available to said Rentee or his duly authorized driver shall be null and void, and any breach thereof by the Rentee or his duly authorized driver shall constitute an absolute defense against any claim filed against Bogard's or its insurance carrier on said policy, and the Rentee and his duly authorized driver hereby agree to indemnify and save harmless Bogard's and the insurance carrier of Bogard's of and from any and all damages they or either of them may sustain, including court costs and counsel fees by reason of any such claim for personal injury or property damage.

## 15. Traffic Violations

Rentee agrees to forthwith pay all fines or other monetary penalties assessed against Rentee or his duly authorized driver, Bogard's, and the motor vehicle leased hereunder, by reason of the operation or parking of said motor vehicle during the term of this lease, or while said vehicle is in possession of said Rentee or his duly authorized driver.

Should Rentee fail to pay any such fine or monetary penalty, and Bogard's be required to pay the same, Rentee hereby agrees to forthwith reimburse Bogard's therefor, and in addition thereto to forthwith pay to Bogard's the additional sum of $10.00 for each such fine or penalty so paid by Bogard's.

**16.** Rentee agrees to pay for any and all damages to vehicle covered by this agreement, or its accessories, occurring while loaded in excess of the pay load limits stated on the reverse side hereof, including towing charges, replacement of parts or other costs.

# ABLCO, INC.

720 N. LONGFELLOW
TUCSON, ARIZONA 85711

JACK WIRKLER
PHONE: 325-5907

-4122
-1856

2697

| EXPIRATION | STATE | DRIVER'S LICENSE | RENTAL RATE | VEHICLE NO. | DEPOSIT |
|---|---|---|---|---|---|
| | | | $200. PER month PLUS .09¢ PER MILE | #1, 1972 Chev Gold Blazer | CHECK $ 200.00<br>CASH $ |

PAYLOAD LIMIT

COMMENTS:
Serial No. CKE182S142823. 1972 License Plate 2CK335.

No fuel furnished.

WILL RETURN 1 month
TIME IN
TIME OUT 9:30am Aug.8,1973
TOTAL TIME @
MILES IN
MILES OUT 42747
TOTAL MILES @

**COLLISION PROTECTION** - By his initial, Rentee agrees to pay an additional fee of $1.50 per day or fraction thereof and Bogard's Nationalease agrees to relieve Rentee of all liability for collision damage to the Bogard's vehicle referred to herein while it is used, or driven in conformity with this rental agreement, but Rentee shall be fully liable for all such damage if said vehicle is used, or driven in violation of any law or this rental agreement. The "COLLISION PROTECTION" afforded under this agreement DOES NOT RELIEVE RENTEE of liability for damage resulting to the vehicle as result of careless, reckless or abusive handling by the driver. For example: Damage to the vehicle caused by driving under low bridges, roofs, trees or signs; the striking of immobile objects such as parts or loading platforms; or the improper overloading of the vehicle WILL NOT BE COVERED. I have read and agree to above conditions:

CUSTOMER'S SIGNATURE _____

## TRUCK RENTAL AGREEMENT

IN CONSIDERATION of the covenants herein and on the reverse hereof contained, BOGARD'S Nationalease, as Owner, hereinafter referred to as "Bogard's", hereby rents to the undersigned "Rentee", upon the terms, covenants and conditions herein set forth, the motor vehicle described above, hereinafter referred to as "Vehicle":

1. For the period beginning and ending at the times stated above, Rentee agrees that his failure to return the vehicle to the hereinabove described "Check In Stations", at or prior to the time stated, will constitute Unauthorized Use and Fraudulent Concealment of the vehicle by Rentee.
2. Permission to drive and use the Vehicle is limited exclusively to the Rentee, or his duly authorized agent or employee, unless written consent of Bogard's is endorsed hereon.
3. Rentee expressly agrees to pay to Bogard's on demand:
   (a) A mileage charge computed at the rate specified in the current Bogard's rate schedule or as quoted on rental agreement for the mileage covered by said vehicle during the period of this rental.
   (b) Service and time charges computed at the rate specified in the current Bogard's rate schedule or as quoted on rental agreement for the period of this rental.
   (c) A sum equal to the value of all tires, parts, tools and accessories lost or stolen from the vehicle.
4. It is expressly agreed that the rentee is not the agent, servant or employee of Bogard's in any manner whatsoever.
5. Rentee acknowledges that he has personally examined the motor vehicle and agrees that it is in good, usable condition and repair, and that he will return it promptly to Bogard's at the Check-In Station designated on the same side hereof.

**See other side for additional terms**

| | |
|---|---|
| SALES TAX | |
| GROSS RECEIPTS TAX | |
| COLLISION COVERAGE | |
| CLEAN-UP CHARGE | |
| | |
| | |
| TOTAL RENTAL | |
| LESS | |
| PAY THIS AMOUNT | |

SIGNED RENTER John E Kennison EMPLOYED BY Self

HOME ADDRESS Rt 1 Box 621-B Tucson 85704

NAME John Kennison

ADDRESS 2506 North Alvernon

CITY & STATE Tucson, Arizona 85711

P. O. NUMBER

Thank You

**WE APPRECIATE YOUR BUSINESS**

**SEE REVERSE SIDE**

CHECKED IN BY

Ps

As further consideration for the hiring of the motor vehicle described on the face of this agreement, Rentee agrees with Bogard's.

**6. Speedometer**

Rentee will not tamper with the speedometer, and if the same shall show signs of having been disconnected or tampered with, or for any reason shall be broken or become inoperative, Bogard's at its option, may charge Rentee on the basis of $5.00 for each hour the motor vehicle is in Rentee's possession.

**7. Repairs**

Rentee shall not permit any repairs to the motor vehicle or permit any lien to be placed upon the motor vehicle without Bogard's written consent; and Rentee will pay any and all unauthorized charges in connection with the use or safe-keeping of the motor vehicle.

**8. Accidents or Breakdowns**

In the event of any collision or accident or breakdown involving the motor vehicle, Rentee forthwith shall report the same to Bogard's and follow Bogard's instructions in respect thereto. In any event, Rentee shall promptly furnish a written report of any accident, no matter how slight, giving the names and addresses of all parties and witnesses involved, and the license numbers of vehicles involved.

**9. Indemnification of Bogard's**

Rentee expressly agrees to indemnify and hold Bogard's harmless of, from and against any and all loss, costs of collection, damages, attorney's fees, expense and liability growing out of, or resulting from this contract, or the use of the motor vehicle by Rentee; and in the event that suit is instituted by Bogard's to recover possession of the motor vehicle, or to enforce any of the terms of this agreement, or to collect any sums of money, damages or costs from Rentee hereunder or any sum of money for the use or rental of the motor vehicle. Rentee shall pay all costs and reasonable costs of collection and attorney's fees incurred by Bogard's in such suit or suits.

**10. Use**

Rentee agrees that the motor vehicle shall not be operated:

(a) By any person other than Rentee or his duly authorized agent; and in any event by any person (1) under the age of 21 years, (2) not holding a valid driver's license;
(b) For the transportation of persons or property for hire, express or implied;
(c) In any race or speed test or contest;
(d) To propel or tow any vehicle;
(e) By any person while under the influence of intoxicants or narcotics;
(f) For any illegal purpose;
(g) In violation of any law or ordinance;
(h) Outside of the scope of the driver's employment and the usual course of the trade, business, profession or occupation of the Rentee;
(i) Recklessly as to speed or otherwise;
(j) Rentee agrees to notify Bogard's of change of driver(s), and to arrange for the Owner to safety-check any additional driver(s).

**11. Keys**

Rentee agrees to keep vehicle locked at all times when unoccupied and to keep keys on his person.

**12. Deposit**

The deposit paid by Rentee and noted on the face of this agreement will be credited upon the rental and other charges accruing under the terms of this agreement only in the event Rentee shall fully and faithfully perform all of the terms and conditions contained in this agreement. In the event Rentee shall breach any of the terms or conditions of this agreement, said deposit shall be retained by Bogard's as additional consideration for this agreement, and Rentee shall be required to pay in addition thereto all of the rentals and other charges herein provided to be paid by Rentee.

**13. No Changes Without Written Consent**

No changes in the terms of this agreement shall be valid unless endorsed hereon and signed by Bogard's and Rentee.

**14. Insurance**

During the period covered by this rental agreement, in the event Rentee has no other insurance policy for public liability or property damage covering the operation or use of a motor vehicle, Bogard's will make available to Rentee insurance coverage on the vehicle described herein with the following limits:

Public Liability $100,000 for bodily injury to or death of one person as a result of any one accident, $300,000 for bodily injury to or death of all persons as a result of any one accident. Property Damage: $50,000 for damage to property of others as a result of any one accident.

Rentee is subject to the terms, covenants, conditions, limitations and restrictions thereof, and is bound by such terms, covenants, conditions, limitations and restrictions, even though all of them are not outlined in this agreement.

The Insurance shall not cover any liability for injury to or death of the Rentee, nor the liability of said Rentee for injury to or death of any person riding as a guest or passenger in or upon, or entering or alighting from, the vehicle described in this lease agreement, or any liability imposed upon or assumed by the Rentee under any Workmen's Compensation Act, plan or law, or any contract of whatsoever kind, nature or character.

The Rentee agrees to report immediately in writing to Bogard's any accident involving the vehicle described in this lease agreement, and in any event within twenty-four hours after the accident in question, and to deliver to Bogard's or the insurance carrier of Bogard's, within twenty-four hours receipt, of every process, pleading, or paper of any kind relating to any and all claims, suits, and/or proceedings received by Rentee or his duly authorized driver.

The Rentee or his duly authorized driver shall not in any manner, aid or abet any claim, but shall cooperate fully with Bogard's or the insurance carrier of Bogard's in all matters connected with the investigation and defense of any claim or suit.

In the event of the violation of any of the terms, covenants, conditions, limitations or restrictions of this lease contract, or the insurance policy herein referred to, the insurance so made available to said Rentee or his duly authorized driver shall be null and void, and any breach thereof by the Rentee or his duly authorized driver shall constitute an absolute defense against any claim filed against Bogard's or its insurance carrier on said policy, and the Rentee and his duly authorized driver hereby agree to indemnify and save harmless Bogard's and the insurance carrier of Bogard's of and from any and all damages they or either of them may sustain, including court costs and counsel fees by reason of any such claim for personal injury or property damage.

**15. Traffic Violations**

Rentee agrees to forthwith pay all fines or other monetary penalties assessed against Rentee or his duly authorized driver, Bogard's, and the motor vehicle leased hereunder, by reason of the operation or parking of said motor vehicle during the term of this lease, or while said vehicle is in possession of said Rentee or his duly authorized driver.

Should Rentee fail to pay any such fine or monetary penalty, and Bogard's be required to pay the same, Rentee hereby agrees to forthwith reimburse Bogard's therefor, and in addition thereto to forthwith pay to Bogard's the additional sum of $10.00 for each such fine or penalty so paid by Bogard's.

**16.** Rentee agrees to pay for any and all damages to vehicle covered by this agreement, or its accessories, occurring while loaded in excess of the pay load limits stated on the reverse side hereof, including towing charges, replacement of parts or other costs.

# LEBO'S
# RADIATOR SERVICE

COMPLETE AUTOMOTIVE COOLING SYSTEM SERVICE
AUTHORIZED HARRISON-ESKIMO DISTRIBUTOR

4 W. Speedway Phone 624-7622
TUCSON, AZ. 85705

Customer's Order No. _____ Date 8-21 1973

M Cash

Address _____

| SOLD BY | CASH | C.O.D. | CHARGE | ON ACCT. | MDSE. RET. | PD. OUT |
|---|---|---|---|---|---|---|
| R | | | | | | |

| QUAN. | DESCRIPTION | PRICE | AMOUNT |
|---|---|---|---|
| | Repaired Bleyer Radiator | | |
| | on car | | 2 00 |
| | Radiator Repair | | |

ALL claims and returned goods MUST be accompanied by this bill.

No. 18264 Rec'd by _____

13246 KC BUSINESS FORMS CO. - KANSAS CITY, MO.

# D. & G. AUTOMOTIVE

P. O. BOX 1593
400 EAST CENTER
WICKENBURG, ARIZONA 85358
Phone Day 684-2203 Nite 684-7215

№ 10353

NAME John Kennisson
ADDRESS
CITY Tsn AZ

| DATE | CUST. ORDER NO. | WHEN PROMISED | PHONE |
|---|---|---|---|
| 8-10-73 | | | |

YEAR & MAKE OF CAR-TYPE OR MODEL 72 Blazer
SERIAL NO.
MOTOR NO.
LICENSE NO.
MILEAGE
WRITTEN BY

| AMT. | PART NO. | NAME OF PART | SALE AMT. |
|---|---|---|---|
| | 40726 | AC Pump | 12 40 |

| DESCRIPTION OF WORK | AMOUNT |
|---|---|
| Replace Fuel Pump | 8 00 |

Paid 8-10-73

SEE BACK FOR ADDITIONAL PARTS — TOTAL PARTS ►

ACCESSORIES — TIRES AND TUBES

TOTAL ACCESSORIES ►

| GAS, OIL & GREASE | | | CHECK BELOW LUBRICATE | | | | |
|---|---|---|---|---|---|---|---|
| GALS. GAS | | | CHANGE ENGINE OIL | | | LABOR ONLY | 8 00 |
| QTS. OIL | | | TRANSMISSION | | | PARTS | 12 40 |
| LBS. GREASE | | | DIFFERENTIAL | | | ACCESSORIES | |
| | | | WASH | | | GAS, OIL & GREASE | |
| | | | POLISH | | | MISC. MERCHANDISE | |
| TOTAL GAS, OIL & GREASE ► | | | TOTAL SERVICE ► | | | SUBLET REPAIRS | |
| | | | | | | TAX | 50 |
| AUTHORIZED BY | | | | | | TOTAL ► | 20 90 |

ESTIMATES ARE FOR LABOR ONLY, MATERIAL ADDITIONAL

I HEREBY AUTHORIZE THE ABOVE REPAIR WORK TO BE DONE ALONG WITH NECESSARY MATERIALS. YOU AND YOUR EMPLOYEES MAY OPERATE ABOVE VEHICLE FOR PURPOSE OF TESTING, INSPECTION OR DELIVERY AT MY RISK. AN EXPRESS MECHANIC'S LIEN IS ACKNOWLEDGED ON ABOVE VEHICLE TO SECURE THE AMOUNT OF REPAIRS THERETO. IT IS UNDERSTOOD THAT THIS COMPANY ASSUMES NO RESPONSIBILITY FOR LOSS OR DAMAGE BY THEFT OR FIRE TO VEHICLES PLACED WITH THEM FOR STORAGE, SALE, REPAIR OR WHILE ROAD TESTING.

PAY THIS AMOUNT

PRINTED BY GRAYARC CO., INC., BROOKLYN, N. Y. 11232

**RECEIPT**

RECEIVED FROM Cash

ADDRESS

DATE 8-21-73

DOLLARS $ LIC. NO.

| DESCRIPTION | GAL. | PRICE | AMOUNT |
|---|---|---|---|
| GASOLINE : ☐ UNLEADED ☐ SUPREME ☐ CHEVRON LOW LEAD | | | |
| MOTOR OIL: ☐ CHEVRON CUSTOM 10-40 ☐ RPM SPECIAL ☐ S.O. ZEROLENE | | | |
| 1. M15 TUBE Paid | | | 6 31 |
| | | SALES TAX | 32 |
| | | TOTAL | 6 63 |

ANDERSON'S CHEVRON
2402 N. 1st Avenue
Tucson, Arizona 85719
LOCATION OR STATION STAMP

ITEMS CORRECT
CHARGE
APPROVED BY
RECEIVED BY

PRINTED IN U.S.A. GO-99 (2-73)

**RECEIPT**

RECEIVED FROM Cash Blazer

ADDRESS

DATE 8-27-73

DOLLARS $ LIC. NO.

| DESCRIPTION | GAL. | PRICE | AMOUNT |
|---|---|---|---|
| GASOLINE : ☐ UNLEADED ☐ SUPREME ☐ CHEVRON LOW LEAD | | | 2 75 |
| MOTOR OIL: ☐ CHEVRON CUSTOM 10-40 ☐ RPM SPECIAL ☐ S.O. ZEROLENE | | | |
| Tire Repairs | | | |
| Spare - Never been used Pin Point hole but nothing on Tire. | | | |
| Paid | | SALES TAX | |
| | | TOTAL | 2 75 |

ANDERSON'S CHEVRON
2402 N. 1st Avenue
Tucson, Arizona 85719
LOCATION OR STATION STAMP

ITEMS CORRECT
CHARGE
APPROVED BY
RECEIVED BY

PRINTED IN U.S.A. GO-99 (2-73)

CREDIT No. 2303183

DATE: 11/6/73

8330141 APPLY TO INVOICE NO.

**UNITED PALOMAR COMPANY**
**of Arizona**
**General Insurance**
4400 E. Broadway, P.O. Box 12458
Tucson, Arizona 85711
Telephone 327-6623

John E. Kinnison
Rt. 1 Box 621B
Tucson, Arizona

MORTGAGEE

ADDRESS

LOAN NO.

| COMPANY | POLICY NUMBER | EFFECTIVE | EXPIRES | INSTALL. NO. | PREMIUM DUE |
|---|---|---|---|---|---|
| Firemans Grp. | A5348263 | 10/5/73 | 2/26/74 | 1 | |
| DESCRIPTION REFUND & LOCATION (IF DIFFERENT) | | | AMOUNT | | |
| Automobile endorsemnt deleting 1972 Blazer | | | vs | | 87.00 |

| TOTAL POLICY PREMIUM | FUTURE INSTALLMENTS | DATE DUE | PREMIUM | DATE DUE | PREMIUM | DATE DUE | PREMIUM |
|---|---|---|---|---|---|---|---|
| 87.00 | | | | | | | |

# CREDIT MEMO

PL

# POLICY DECLARATIONS AMENDMENT

It is agreed that the declarations of the policy are amended solely with respect to such and so many of the following particulars marked ☒. The entry therein specified is substituted for the corresponding entry appearing in the policy declarations and any prior amendments.

ITEM 1. NAME, ADDRESS OR OCCUPATION OF INSURED IS CORRECTED TO READ:

☐

ITEM 2. POLICY PERIOD CORRECTED TO READ:

☐ FROM TO

ITEM 3. PLACE OF GARAGING AUTO CHANGED TO READ: (IF DIFFERENT FROM ADDRESS)

☐

ITEM 4.

☐ ADDITION, XX ELIMINATION OR ☐ SUBSTITUTION OF OWNED AUTOMOBILE

a. AUTOMOBILE ADDED. THE COVERAGES INDICATED IN ITEM 7 OF THIS ENDORSEMENT SHALL APPLY TO THE FOLLOWING DESCRIBED AUTOMOBILE.

| MODEL YEAR | TRADE NAME AND BODY TYPE | MODEL SERIES | MOTOR NUMBER, SERIAL NUMBER OR IDENTIFICATION NUMBER | HORSE-POWER | PURCHASED MO. YR. N/U | ACTUAL COST | SYMBOL & AGE | TERR. | CLASS RATE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

NAME AND ADDRESS OF LOSS PAYEE

b. AUTOMOBILE ELIMINATED. THE INSURANCE AFFORDED BY THE POLICY SHALL CEASE TO COVER:

☐ CAR 1 XX CAR 2 [illegible] WING DESCRIBED AUTOMOBILE.

| MODEL YEAR | TRADE NAME | MOTOR NUMB[illegible] | CLASS RATE |
|---|---|---|---|
| | | | |

ITEM 5.

☐ CHANGES OF COVERAGE OR LIMITS.

COMPLETE THE FOLLOWING DESCRIPTION PANEL IF COVERAGES D, E OR F ARE AFFECTED.

THE INSURANCE A[illegible] BELOW ONLY WIT[illegible] INDICATED BY A ME[illegible] EDULE (ITEM 7) COVERAGES AS [illegible]NG "CANCELLED"

| MODEL YEAR | TRADE NAME AND BODY TYPE | MODEL SERIES | MOTOR NUMBER, SERIAL NUMBER OR IDENTIFICATION NUMBER | [illegible]ERR. | CLASS RATE |
|---|---|---|---|---|---|
| | | | | | |

**THIS ENDORSEMENT forms a part of your policy, and should be attached to the same without fail.**

ITEM 6.

☐ OTHER CHANGES

P/R .395

ITEM 7. SCHEDULE

| A R OR C | COVERAGES | LIMITS OF LIABILITY | PREMIUMS CAR 1 ANNUAL | PREMIUMS CAR 1 ADDITIONAL | PREMIUMS CAR 1 RETURN | PREMIUMS CAR 2 ANNUAL | PREMIUMS CAR 2 ADDITIONAL | PREMIUMS CAR 2 RETURN |
|---|---|---|---|---|---|---|---|---|
| | A. BODILY INJURY LIABILITY | $ 100,000 EACH PERSON<br>$ 300,000 EACH OCCURRENCE | $ | $ | $ | $ 90. | $ | $ 36. |
| | B. PROPERTY DAMAGE LIABILITY | $ 10,000 EACH OCCURRENCE | | | | 36. | | 14. |
| | C. MEDICAL PAYMENTS | $ EACH PERSON | | | | | | |
| | D. (1) COMPREHENSIVE—EXCLUDING COLLISION | ACTUAL CASH VALUE OR $ ACV | | | | 31. | | 12. |
| | (2) PERSONAL EFFECTS | $100 | | | | | | |
| | E. COLLISION | ACTUAL CASH VALUE LESS $ 100. DEDUCTIBLE | | | | 59. | | 23. |
| | F. TOWING AND LABOR COSTS | $ PER DISABLEMENT | | | | | | |
| | G. UNINSURED MOTORISTS (BODILY INJURY ONLY) | $ 15,000 EACH PERSON<br>$ 30,000 EACH ACCIDENT | | | | 5. | | 2. |

ENDORSEMENTS ATTACHED

| | ADDITIONAL PREMIUM | RETURN PREMIUM |
|---|---|---|
| TOTAL | $ | $ 87. |

* $ PAYABLE ON EFFECTIVE DATE OF ENDORSEMENT. SUBSEQUENT INSTALLMENT(S) DUE AMENDED TO $

End't. #5

| POLICY NUMBER | POLICY EXPIRATION DATE | NAME OF INSURED | ENDORSEMENT EFFECTIVE DATE |
|---|---|---|---|
| A 534 82 63 | 2-26-74 | JOHN E. KINNISON | 10-5-73 |

10-30-73 cmb

FIREMAN'S FUND INSURANCE COMPANY
THE AMERICAN INSURANCE COMPANY
NATIONAL SURETY CORPORATION
AMERICAN AUTOMOBILE INSURANCE COMPANY

Stuart L. Bennett
PRESIDENT

PRODUCER

UNITED PALOMAR CO. OF ARIZONA, TUCSON

COUNTERSIGNATURE OF AUTHORIZED AGENT

William C Brabenec

72-X

100078—12-70

SOLD TO

Gas

DRIVERS LICENSE NO.

STATE

**Mobil** MOBIL OIL CORPORATION

DEALER ACCOUNT NUMBER 741 040 0 DATE 080773

SOLD BY
DENNIS HOF L
RT 2 BOX 373
TEMPE 8528I

CUSTOMER SIGNATURE

X

Cardholder agrees to pay to the issuer of the presented credit card the herein stated charges in accordance with the agreement between cardholder and said issuer.

003 60

INVOICE AMOUNT

| AUTH. CODE | | ATTENDANT |
|---|---|---|
| AUTO TAG NO. | | STATE |

| PRODUCT OR SERVICE | QTY. | PRICE | AMOUNT |
|---|---|---|---|
| PREMIUM ☐ SPECIAL ☐ REGULAR ☐ | | | |
| Cool Cushion | | | 3 60 |
| | | | |
| REPAIR ORDER # | | | |
| PRICES INCLUDE APPLICABLE FEDERAL & STATE EXCISE TAXES | SALES TAX | | |
| TOTAL MUST AGREE WITH AMOUNT IMPRINTED AT TOP | TOTAL | | 3 60 |

CUSTOMER COPY

CO-65 (12-71)

NUMBER 7138461

# GRINNELL FIRE and SAFETY CO.

316 EAST 6th STREET • 623-1832 • TUCSON, ARIZONA 85705

PLEASE REMIT ON THIS INVOICE

No. 4152

NAME for Quintana Sub. DATE 8/27/73

ADDRESS P.O. No.

CITY & STATE JOB SITE

| QUAN. | DESCRIPTION | PRICE | AMOUNT | |
|---|---|---|---|---|
| | Maintenance of Fire Extinguishers per N.F.P.A. bulletin 10A ☐Annual ☐Semi-Annual ☐Quarterly ☐Monthly | | | |
| | Recharge/Refill of Fire Extinguishers No. of Lbs. Type | | | |
| | No. of Lbs. Type | | | |
| | No. of Lbs. Type | | | |
| | No. of Lbs. Type | | | |
| | | | | |
| | Hydrotest of Fire Extinguishers Dry Chemical (Required Every 12 Years) | | | |
| | Carbon Dioxide (Required Every 5 Years) | | | |
| | Water (Required every 5 years) | | | |
| | | | | |
| | Semi-Annual Maintenance of Kitchen Hood Fire Extinguisher System(s) in accordance with underwriter Laboratory and National Fire Protection Association Standards. | | | |
| 1 | Tree Plater Refilled | | 2 | — |
| | | | | |
| | | | | |
| | | Service Amount | | |

| QUAN. | EQUIPMENT AND PARTS | | | |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**TERMS and CONDITIONS: NET 20 DAYS.** Title and ownership of the property herein specified shall remain in this company's name until final payment has been made. Customer agrees to pay reasonable collection charges plus 1% interest per month on 30 day past due accounts.

| | | |
|---|---|---|
| Parts Amount | 2 | — |
| Tax | | 10 |
| TOTAL | 2 | 10 |

SERVICE-MAN

RECEIVED BY: X

Paid Cash

Blazer Auto Parts

| 004 | 70 |
|---|---|
| INVOICE AMOUNT | |

SOLD TO

DRIVERS LICENSE NO.

STATE

**Mobil** MOBIL OIL CORPORATION

DEALER ACCOUNT NUMBER 741 040 0 DATE 091473

SOLD BY DENNIS HOF L
RT 2 BOX 373
TEMPE 85281

CUSTOMER SIGNATURE

X

Cardholder agrees to pay to the issuer of the presented credit card the herein stated charges in accordance with the agreement between cardholder and said issuer.

| AUTH. CODE | | ATTENDANT 7 |
|---|---|---|
| AUTO TAG NO. | | STATE |

| PRODUCT OR SERVICE | QTY. | PRICE | AMOUNT |
|---|---|---|---|
| PREMIUM ☐ SPECIAL ☐ REGULAR ☑ | 12.389 | | 9.70 |
| | | | |
| | | | |
| REPAIR ORDER # | | | |
| PRICES INCLUDE APPLICABLE FEDERAL & STATE EXCISE TAXES | SALES TAX | | |
| TOTAL MUST AGREE WITH AMOUNT IMPRINTED AT TOP | TOTAL | | 9.70 |

CUSTOMER COPY

CO-65 (12-71)

NUMBER 7140719

CARD NO.

SOLD TO

*Thanks For Buying Texaco*

TOTAL CHARGE $ 00250

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

X SIGNATURE Blazer Quintana

RETAILER

DAVES TEXACO
WICKENBURG ARIZ
PH 294 16001

| AUTHORIZATION CODE | ATTENDANT |
|---|---|
| | 1 |
| DATE 9 14 73 | 551297 |

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT | |
|---|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☐ | | | | |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | | |
| Tire Rep | | | 2 | 50 |
| SALES TAX | | | | |
| ORIGINAL INVOICE | MEMO TOTAL | | 2 | 50 |

| LICENSE NUMBER | STATE |
|---|---|
| 266335 | Ca |

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 1% | 12% |
| MISSOURI | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 3/4% | 9% |
| MONTANA | (0-300) | 11/12% | 11% |
| | (OVER 300) | 7/12% | 7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000) | 1-1/2% | 18% |
| | (OVER 1000) | 1% | 12% |
| TENNESSEE | (0-500) | 5/6% | 10% |
| | (OVER 500) | 1/2% | 6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

Tonopah - Cash - Blazer
Quintana

Date 9-13 1973

M

No.

| Reg. No. | Clerk | ACCOUNT FORWARD | | |
|---|---|---|---|---|
| 1 | Cash | | | |
| 2 | | | | |
| 3 | $4.50 | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | GAS | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | 35 | | | |
| 14 | | | | |
| 15 | | | | |

Your Account Stated to Date — If Error Is Found Return at Once.

CARD NO.

SOLD TO

*Thanks For Buying Texaco*

TOTAL CHARGE $ 00190

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

Cash Receipt

X SIGNATURE

Blazer Quintana

RETAILER

DAVES TEXACO
WICKENBURG ARIZ
61 294 1600

AUTHORIZATION CODE

ATTENDANT 2

DATE 9 13 73

550771

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT |
|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☐ | 2 | 95 | 190 |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | |
| | | | |
| SALES TAX | | | |
| ORIGINAL INVOICE | MEMO TOTAL | | 190 |

LICENSE NUMBER

STATE

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 1% | 12% |
| MISSOURI | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 3/4% | 9% |
| MONTANA | (0-300) | 11/12% | 11% |
| | (OVER 300) | 7/12% | 7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000) | 1-1/2% | 18% |
| | (OVER 1000) | 1% | 12% |
| TENNESSEE | (0-500) | 5/6% | 10% |
| | (OVER 500) | 1/2% | 6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

CARD NO.

SOLD TO

*Thanks For Buying Texaco*

Blaze A

TOTAL CHARGE $ 00515

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

X SIGNATURE Blazr Quintana

RETAILER

DAVES TEXACO
WICKENBURG ARIZ
ph 294 16001

AUTHORIZATION CODE

ATTENDANT 3

DATE 9 12 73

550740

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT | |
|---|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☒ | 11.5 | | 5 | 15 |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | | |
| | | | | |
| SALES TAX | | | | |
| ORIGINAL INVOICE | MEMO TOTAL | | 5 | 15 |

LICENSE NUMBER

STATE

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500)<br>(OVER 500) | 1-1/2%<br>1% | 18%<br>12% |
| MISSOURI | (0-500)<br>(OVER 500) | 1-1/2%<br>3/4% | 18%<br>9% |
| MONTANA | (0-300)<br>(OVER 300) | 11/12%<br>7/12% | 11%<br>7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000)<br>(OVER 1000) | 1-1/2%<br>1% | 18%<br>12% |
| TENNESSEE | (0-500)<br>(OVER 500) | 5/6%<br>1/2% | 10%<br>6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

CARD NO.

TOTAL CHARGE $ 00589

SOLD TO

*Thanks For Buying Texaco*

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

Cash Receipt

X SIGNATURE Blozer Quintana

RETAILER

DAVES TEXACO
WICKENBURG ARIZ
941 294 1600

| AUTHORIZATION CODE | ATTENDANT |
|---|---|
| | 2 |

| DATE | |
|---|---|
| 9 12 73 | 550697 |

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT |
|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☐ | 11.0 | 44.9 | 495 |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | 90 |
| | | | |
| SALES TAX | | | 4 |
| ORIGINAL INVOICE | MEMO TOTAL | | 589 |

| LICENSE NUMBER | STATE |
|---|---|
| | |

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500)<br>(OVER 500) | 1-1/2%<br>1% | 18%<br>12% |
| MISSOURI | (0-500)<br>(OVER 500) | 1-1/2%<br>3/4% | 18%<br>9% |
| MONTANA | (0-300)<br>(OVER 300) | 11/12%<br>7/12% | 11%<br>7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000)<br>(OVER 1000) | 1-1/2%<br>1% | 18%<br>12% |
| TENNESSEE | (0-500)<br>(OVER 500) | 5/6%<br>1/2% | 10%<br>6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

Quinteno Blazer

Date 11 SEPT. 1973

M TONOPAH SERVICE

No. TONOPAH, ARIZ. 85354

| Reg. No. | Clerk | ACCOUNT FORWARD | | |
|---|---|---|---|---|
| 1 | GAS @ 48.9 | 5.3 | 2 | 75 |
| 2 | | | | |
| 3 | CASH | | | |
| 4 | | | | |
| 5 | Paid | | | |
| 6 | | | | |
| 7 | F. Schaaf | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | 2 | 75 |

29

Your Account Stated to Date — If Error Is Found Return at Once.

00380

Blazer Ambulance

Cash

Customer agrees to pay a late charge on past due balances of 1½% per month or the maximum rate allowed in customer's state of residence, whichever is less.

X

Recd. By

JESS RICHMOND
LITHFLD RD & W VNBM
GOODYEAR AZ
2 0008179-0 3 57

DATE 091173

Verification No.

2EC 335 Ariz

License Number State

| PRODUCTS & SERVICES | Quantity | Price | Amount |
|---|---|---|---|
| SUPREME ☐ CHEVRON ☐ UNLEADED ☐ | 10 | 37.9 | 3 80 |
| CHEVRON CUSTOM OIL ☐ CHEVRON SUPREME ☐ CHEVRON SPEC. ☐ | Qts. | | |
| Car Care Service | | | |
| | | | |
| | | | |
| | Sales Tax | | |
| | Total | | 3 80 |

M 316059

S-28-M Chevronmatic (3-73)

Customer's Original

Price includes motor vehicle fuel tax (if applicable)

Standard Oil Company of California

Chevron

These Amounts Must Agree

Thank you for purchasing S.O. products

Blazer-Oscar Lava 9-10-73

[redacted]

Date _____ 19____

[redacted]

[redacted]

No. [redacted]

Reg. No. ____ Clerk ____ | ACCOUNT FORWARDED

| | | | |
|---|---|---|---|
| 1 | 17³ reg | 6 | 55 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | 6.55 | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | 6 | 55 |
| 14 | 7079-25 | | |
| 15 | | | |

Your account stated to date. If error is found return at once.

# SHEPHERD BROS. NO.

MAIN OFFICE
2341 W. BETHANY HOME RD.
PHOENIX, ARIZ., 85015
PHONE 263-8444
CASH SALES

DATE 9-5-73 197 3

M

Cash

| | | |
|---|---|---|
| GALS. GASOLINE | 5 | 13 |
| QTS. OIL | | |
| GREASE | | |
| ☐ WASH ☐ POLISH | | |
| TIRES & TUBES | | |
| LABOR | | |
| ACCESSORIES | | |
| | | |
| | | |
| 12 TOTAL | 5 | 13 |

Paid

PLATE 5

CARD NO.

SOLD TO

Thanks for Buying Texaco

2 Tire Repairs

TOTAL CHARGE $

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.

PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

5 (1) 2nd Spare

(2) Rl Front Quarter

X SIGNATURE

RETAILER

AUTHORIZATION CODE 3

ATTENDANT 4

DATE 0

135364

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT |
|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☐ | | | |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | |
| Tire Rep 2 | | | 5 00 |
| SALES TAX | | | |
| ORIGINAL INVOICE | MEMO TOTAL | | 5 00 |

LICENSE NUMBER 2LC 335

STATE Ca

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 1% | 12% |
| MISSOURI | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 3/4% | 9% |
| MONTANA | (0-300) | 11/12% | 11% |
| | (OVER 300) | 7/12% | 7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000) | 1-1/2% | 18% |
| | (OVER 1000) | 1% | 12% |
| TENNESSEE | (0-500) | 5/6% | 10% |
| | (OVER 500) | 1/2% | 6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

00525

Blazer Quintana

Paid

Customer agrees to pay a late charge on past due balances of 1½% per month or the maximum rate allowed in customer's state of residence, whichever is less.

X 102

S INC NO 165
CENTER/TEGNER
WICKENBURG AZ
0001652 5 5750 2

DATE 090873

Recd. By

Verification No.

| PRODUCTS & SERVICES | Quantity | Price | Amount |
|---|---|---|---|
| SUPREME ☐ CHEVRON ☒ UNLEADED ☐ | 2.54 | 1.9 | 5.25 |
| CHEVRON CUSTOM OIL ☐ CHEVRON SUPREME ☐ CHEVRON SPEC. ☐ | Qts. | | |
| Car Care Service | | | |
| | | | |
| | | | |
| | Sales Tax | | |
| | Total | | 5.25 |

L 217435

License Number State

Customer's Original

Price includes motor vehicle fuel tax (if applicable)

Standard Oil Company of California

Chevron

These Amounts Must Agree

Thank you for purchasing S.O. products

S-28-M Chevronmatic (3-73)

Spare Switch

NAME Kinnson
ADDRESS Route 1 G2103 DATE 9-2-73
CITY & STATE Tuson AZ ZIP CODE PHONE BUS. HOME
MAKE & YEAR Chevy LICENSE 2EC-335
SPEEDOMETER READING WARRANTY NO.
TIME WANTED Wed P.M. ☐ DELIVER JOB TAKEN BY RH

W INDICATES SERVICES THAT MUST BE PERFORMED TO PROTECT WARRANTY

| QUAN. | | | | AMOUNT |
|---|---|---|---|---|
| | SPARK PLUGS | ATLAS | SIZE | |
| | SHOCK ABSORBERS | ATLAS | SIZE | |
| | W OIL FILTER | ATLAS | SIZE | |
| | W AIR FILTER | ATLAS | SIZE | |
| | W GASO. FILTER | ATLAS | SIZE | |
| | W U-JOINTS | ATLAS | SIZE | |
| | W COOLANT/ANTI FREEZE | ATLAS | TYPE | |
| | W PCV VALVE | ATLAS | SIZE | |
| | | | TOTAL ACCESSORY SALES | |

Paid Cash

| | | | | |
|---|---|---|---|---|
| BATTERY SOLD | TYPE | ACCTG. SYMBOL | NO TRADE-IN PRICE | |
| SERIAL NUMBER | | | EXCHANGE PRICE | |
| | | | LESS ADJUST. ALLOW. | |
| | | | TOTAL BATTERY SALES | |
| TUBES SOLD | SIZE | EXCISE TAX / ACCTG. SYMBOL | TOTAL TUBE SALES | |
| TIRES SOLD | TYPE & BRAND | | NO TRADE-IN PRICE | |
| | ACCTG. SYMBOL | | EXCHANGE PRICE | |
| SIZE & PLY | | | EXCISE TAX | |
| TIRE SERIAL NOS. | | | TOTAL PRICE | |
| | | | LESS ADJ. ALLOW. | |
| | | | TOTAL TIRE SALES | |
| | | | TOTAL (1) | NO |

THIS CERTIFIES THAT THE SERVICES INSOFAR AS THEY ARE REQUIRED TO KEEP MANUFACTURER'S CAR WARRANTY IN EFFECT, HAVE BEEN PERFORMED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS.

SIGNATURE

SS-5 (9-72) PRINTED IN U.S.A.

# CHEVRON CAR CARE SERVICE ORDER 500447

Chevron

SS-1652

STATION STAMP

✓✓ SAFETY POINTS DOUBLE - CHECKED AND INITIALED FOR YOUR PROTECTION

| | | |
|---|---|---|
| CRANKCASE DRAIN PLUG | | |
| TRANSMISSION PLUG & LEVEL | | |
| OVERDRIVE PLUGS & LEVEL | | |
| DIFFERENTIAL PLUGS & LEVEL | | |
| CRANKCASE FILLED BY | | |
| 5 MIN. FILTER | | |
| RADIATOR WATER LEVEL | | |
| FRONT WHEEL BEARINGS | | |
| BRAKE CYLINDER | | |
| WARRANTY AND DOOR RECORD | | |

BATTERY CONDITION: GOOD / NEEDED WATER / NEEDS RECHARGE

TIRE CONDITION — TREAD DEPTH 2/32" OR LESS IS UNSAFE: LF /32, RF /32, LR /32, RR /32

WHEEL LUGS — DOUBLE CHECKED BY

| ✓ | SERVICES ORDERED | | | QUAN. | AMOUNT |
|---|---|---|---|---|---|
| | CAR CARE SERVICE ☐ CHASSIS ☐ OTHER | | | | |
| | W MANUAL TRANS. | DRAIN | ADD | | |
| | OVERDRIVE TRANSFER CASE | DRAIN | ADD | | |
| | W DIFFERENTIAL | DRAIN | ADD | | |
| | W FRONT WHEELS | REPACK | INSPECT | | |
| | W AIR CLEANER SERVICE | PLAIN | OIL BATH | | |
| | W MASTER BRAKE CYLINDER | | | | |
| | W U JOINTS & SPLINE | | | | |
| | SPEEDOMETER CABLE | | | | |
| | W OTHER WARRANTY SERVICES | | | | |
| | ☐ CLUTCH LEVER ☐ INJECTOR REACT. | | | | |
| | ☐ DRIVE BELT ☐ CC FILLER CAP | | | | |
| | ☐ PCV SYSTEM ☐ HEAT RISER | | | | |
| | ☐ THROTTLE LINKAGE ☐ BRAKE CABLES | | | | |
| | ☐ POWER STEER ☐ SHIFT LEVERS | | | | |
| | TOTAL CAR CARE SERVICE | | | | |
| | TIRE SERVICE ☒ SWITCH ☐ REPAIR | | | | 2 15 |
| | WHEEL BALANCING SERVICE NO. | | | | |
| | BATTERY SERVICE ☐ RECHARGE | | | | |
| | TOTAL SERVICE | | | | 2 15 |
| | ITEMS NOTED FOR YOUR ATTENTION. | | | | |
| | TOTAL (1) | | | | NO |

| | | | | | | |
|---|---|---|---|---|---|---|
| W | CRANKCASE | DRAIN | ADD | BRAND | SAE | QUANTITY |
| W | AUTOMATIC TRANS. | DRAIN | ADD | BRAND | TYPE | QUANTITY |
| | | | | | | QUANTITY |

GASOLINE _____ GALS. ☐ CUSTOM ☐ SUPREME ☐ CHEVRON

TAXABLE AMOUNT $ . X % = SALES TAX

OIL AND GASOLINE LEVELS VERIFIED WITH CUSTOMER

BY Dick Henderson

TOTAL 2 15

## STANDARD'S GUARANTEE OF PRODUCT EXCELLENCE

For your maximum satisfaction, safety and motoring pleasure, your car manufacturer warrants certain assemblies of your car to be free from defects in material and workmanship under given conditions.

As an owner of a car under warranty, you are required to have certain maintenance performed at specified intervals, using, as required, quality products.

The Standard Oil Company of California, Western Operations, Inc., guarantees that the Atlas* parts, the RPM** lubricants, RPM motor oils and the Chevron Custom** Motor Oil recommended for your car in connection with your new car warranty are of the finest quality and meet any domestic car manufacturer's requirements.

Every product bearing an Atlas trademark is of such high quality that, when subjected to normal conditions of wear and tear, it may be expected to render satisfactory service. RPM motor oils and RPM lubricants are designed to meet the most rigid lubrication requirements of American manufacturers.

Your motoring pleasure is our constant goal.

**STANDARD OIL COMPANY OF CALIFORNIA,**
**WESTERN OPERATIONS, INC.**

* R - ATLAS SUPPLY COMPANY
**R - STANDARD OIL COMPANY OF CALIFORNIA

CARD NO.

SOLD TO

*Thanks For Buying Texaco*

TOTAL CHARGE $ 00570

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

X SIGNATURE Blazer Quintana

RETAILER

DAVES TEXACO
WICKENBURG ARIZ
61 294 16001

| AUTHORIZATION CODE | ATTENDANT 3 |
|---|---|
| DATE 9 1 73 | 135311 |

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT |
|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☒ | 12.4 | | 5 70 |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | |
| | | | |
| SALES TAX | | | |
| ORIGINAL INVOICE | MEMO TOTAL | | 5 70 |

| LICENSE NUMBER | STATE |
|---|---|
| VEHICLE/UNIT NO. | |
| MILEAGE | |

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

451164

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 1% | 12% |
| MISSOURI | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 3/4% | 9% |
| MONTANA | (0-300) | 11/12% | 11% |
| | (OVER 300) | 7/12% | 7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000) | 1-1/2% | 18% |
| | (OVER 1000) | 1% | 12% |
| TENNESSEE | (0-500) | 5/6% | 10% |
| | (OVER 500) | 1/2% | 6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

CANRO. D

Ourtaxe

TOTAL CHARGE $ 00600

SOLD TO

Thanks For Buying Texaco

TERMS: PAYABLE WITHOUT DISCOUNT UPON RECEIPT OF MONTHLY STATEMENT.
PRICE AND AMOUNT COLUMNS INCLUDE ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

Cash Receipt

X SIGNATURE Blaze

RETAILER

JONES TEXACO
WICKENBURG ARIZ
261 294 16001

AUTHORIZATION CODE

ATTENDANT 2

DATE 8 31 73

535457

| MERCHANDISE OR SERVICE | QUAN. | PRICE | AMOUNT |
|---|---|---|---|
| TEXACO GASOLINE SKY CHIEF ☐ FIRE CHIEF ☐ | 3.1 | 4.34 | 6.00 |
| TEXACO MOTOR OIL HAVOLINE ☐ TEXACO ☐ | | | |
| | | | |
| SALES TAX | | | .60 |
| ORIGINAL INVOICE | MEMO TOTAL | | 6.00 |

LICENSE NUMBER

STATE

VEHICLE/UNIT NO.

MILEAGE

FORM S-199-D 9/72

**NOTICE TO BUYER: Do not sign before reading both sides of this agreement or if any spaces intended for agreed terms are left blank. Retain this copy.**

TEXACO

## TEXACO REGULAR TRAVEL CARD ACCOUNT

This purchase is payable in full upon receipt of the statement on which it is billed. A **FINANCE CHARGE** may be computed on the entire past due balance when a portion of that past due balance remains unpaid 55 days after closing date of the statement on which it was first billed. The monthly **FINANCE CHARGE** shall not exceed lawful rates as listed below.

## FINANCE CHARGE Rate Schedule

| State of Residence | Unpaid Balance Range | Periodic (Monthly) Rate | ANNUAL PERCENTAGE RATE |
|---|---|---|---|
| D. C., MASS., MD., NEB., N. J., N. M., N. Y., TEX., VT. | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 1% | 12% |
| MISSOURI | (0-500) | 1-1/2% | 18% |
| | (OVER 500) | 3/4% | 9% |
| MONTANA | (0-300) | 11/12% | 11% |
| | (OVER 300) | 7/12% | 7% |
| ALASKA, CALIFORNIA, DELAWARE | (0-1000) | 1-1/2% | 18% |
| | (OVER 1000) | 1% | 12% |
| TENNESSEE | (0-500) | 5/6% | 10% |
| | (OVER 500) | 1/2% | 6% |
| ALA., MINN., MISS., OHIO, S. CAR., W. VA. | TOTAL BALANCE | 2/3% | 8% |
| IOWA | TOTAL BALANCE | 3/4% | 9% |
| ARIZ., ARK., FLA., IDAHO, ORE., S. DAK., WYO. | TOTAL BALANCE | 5/6% | 10% |
| CONN., HAWAII, KANS., WASH., WISC. | TOTAL BALANCE | 1% | 12% |
| PENNSYLVANIA | TOTAL BALANCE | 1-1/4% | 15% |
| ALL STATES NOT LISTED ABOVE | TOTAL BALANCE | 1-1/2% | 18% |

Pd Cash.

Blozer

44818

8/31/73

Customer agrees to pay a late charge on past due balances of 1½% per month or the maximum rate allowed in customer's state of residence, whichever is less.

X

Recd. By

Verification No.

License Number | State

Customer's Original

Price includes motor vehicle fuel tax (if applicable)

S-28-M Chevronmatic (3-73)

| PRODUCTS & SERVICES | | | DATE | Quantity | Price | Amount |
|---|---|---|---|---|---|---|
| SUPREME ☐ | CHEVRON ☐ | UNLEADED ☐ | | 14.4 | 38.9 | 5 60 |
| CHEVRON CUSTOM OIL ☐ | CHEVRON SUPREME ☐ | CHEVRON SPEC. ☐ | | Qts. | | |
| Car Care Service | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | Sales Tax | | |
| | | | | Total | | 5 60 |

AA 154124

Standard Oil Company of California

Chevron

These Amounts Must Agree

Thank you for purchasing S.O. products

00345

Blazer

Customer agrees to pay a late charge on past due balances of 1½% per month or the maximum rate allowed in customer's state of residence, whichever is less.

X

Recd. By

Verification No.

License Number State

S INC NO 1652
CENTER/TEGNER DR R
WICKENBURG AZ
0001652 5 5750 2

DATE 083073

| PRODUCTS & SERVICES | Quantity | Price | Amount |
|---|---|---|---|
| SUPREME ☐ CHEVRON ☐ UNLEADED ☐ | 8.245 | | 3 45 |
| CHEVRON CUSTOM OIL ☐ CHEVRON SUPREME ☐ CHEVRON SPEC. ☐ | Qts. | | |
| Car Care Service | | | |
| | | | |
| | | | |
| Sales Tax | | | |
| Total | | | 3 45 |

G 236821

S-28-M Chevronmatic (10/72)

**Customer's Original**

Price includes motor vehicle fuel tax (if applicable)

Standard Oil Company of California

Chevron

These Amounts Must Agree

Thank you for purchasing S.O. products

44652

00380

Blazer Quintana

Cash

Customer agrees to pay a late charge on past due balances of 1½% per month or the maximum rate allowed in customer's state of residence, whichever is less.

X

. C INC NO 1652
CENTER/TEGNER DR R
WICKENBURG AZ
0001652 5 6750 2

DATE 082973

Recd. By

Verification No. 2EC335A2

License Number State

| PRODUCTS & SERVICES | Quantity | Price | Amount |
|---|---|---|---|
| SUPREME ☐ CHEVRON ☐ UNLEADED ☐ | 9 | 4.0 | 380 |
| CHEVRON CUSTOM OIL ☐ CHEVRON SUPREME ☐ CHEVRON SPEC. ☐ | Qts. | | |
| Car Care Service | | | |
| | | | |
| | | | |
| | Sales Tax | | |
| | Total | | 380 |

G 236511

Customer's Original

Price includes motor vehicle fuel tax (if applicable)

Standard Oil Company of California

Chevron

These Amounts Must Agree

44565

Thank you for purchasing S.O. products

S-28-M Chevronmatic (10/72)

00$00

INVOICE AMOUNT

Cash

SOLD TO

**Mobil**

MOBIL OIL CORPORATION

NUMBER 1277237

DEALER ACCOUNT NUMBER 739 089 1 DATE 082973

SOLD BY

JOHN DUNN L

P O BOX 252

PICACHO 8524I

| | |
|---|---|
| AUTHORIZATION CODE | |
| LICENSE NO. | STATE |

CUSTOMER COPY

| PRODUCT OR SERVICE | QTY. | PRICE | AMOUNT |
|---|---|---|---|
| PREMIUM ☐ SPECIAL ☐ REGULAR ☒ | 2 | 2.40 | 5.00 |
| | | | |
| | | | |
| REPAIR ORDER # | | | |
| PRICES INCLUDE APPLICABLE FEDERAL & STATE EXCISE TAXES | SALES TAX | | |
| TOTAL MUST AGREE WITH AMOUNT IMPRINTED AT TOP | TOTAL | | 5.00 |

CUSTOMER SIGNATURE

X

Cardholder agrees to pay to the Issuer of the presented credit card the herein stated charges in accordance with the agreement between cardholder and said issuer.

44451

CO-65 (7-71)

**RECEIPT**

RECEIVED FROM CASH

44295

Blazer for Quintana

ADDRESS

DATE 8-27-73

DOLLARS $ LIC. NO.

| DESCRIPTION | GAL. | PRICE | AMOUNT |
|---|---|---|---|
| GASOLINE : ☐ UNLEADED ☐ SUPREME ☐ CHEVRON LOW LEAD | 14.5 | 399 | 5 80 |
| MOTOR OIL: ☐ CHEVRON CUSTOM 10-40 ☐ RPM SPECIAL ☐ S.O. ZEROLENE | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

P 410
A

ANDERSON'S CHEVRON
2402 N. 1st Avenue
Tucson, Arizona 85719

LOCATION OR STATION STAMP

ITEMS CORRECT

CHARGE

APPROVED BY

SALES TAX

TOTAL 5 80

RECEIVED BY

PRINTED IN U.S.A. GO-99 (2-73)