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COLOR  
TRANSPARENCY



THIS SIDE  
TOWARD SCREEN

September 3, 1965

Mr. Mike Clarke  
4845 E. Glenn  
Tucson, Arizona

Dear Mr. Clarke:

This is a summary of the data on your well drilled on the west side of Oro Blanco Wash in the E 1/2, SW 1/4, Sec. 13, T 22 S, R 11 E, Santa Cruz County, Arizona. Drilling was commenced on July 15, 1965 by A. L. Boring, Drilling contractor, and the well was completed by August 23, 1965. Enclosed are a geological sketch map and a brief description of the geology prepared by Mr. Fred M. Johnson, geologist. Also enclosed is a copy of the drillers description of the drilling program and a graphic sample description prepared by us.

Samples were taken at five foot intervals. The upper 25 ft. of the hole passed through red, brown and gray silts. Between 5 ft. and 20 ft. the samples contained 20 - 25% of coarse sand. At 25 ft. a new formation was encountered. The crushed samples were a silty clay. Larger uncrushed pieces of the same material recovered from the hole showed a badly fractured, gray siltstone very like the Amole formation of Cretaceous age. The fractures often contained secondary calcite deposits indicating the presence of groundwater in them at one time or another.

The only economic mineral noted was a few flakes of placer gold between the surface and 20 ft. A nitric acid test was made for silver on samples from 195 ft. to 250 ft. The results were all negative. None of the samples are deemed worth assaying.

After completion the well was bailed dry and allowed to recover. The recovery rate was about 18 ft. per hour. This indicates a yield of about 47 gallons per hour or 1100 gallons per day.

As an ore prospect, the hole is a failure. As a water well it is adequate for domestic use or for a cattle tank. No water samples were turned over to the county agricultural agent for

Mr. Mike Clarke

- 2 -

September 3, 1965

analysis. Since this service is free it might be well to do so eventually, particularly if the water is used for domestic purposes.

The U.S.G.S. has requested the cuttings samples from the well for their files. If you consent we will let the U.S.G.S. have them.

It has been a pleasure to work for you and we hope this report is satisfactory. If you have any further questions, please let us know.

Sincerely yours,  
HEINRICH'S GEOEXPLORATION COMPANY

R. W. Davis  
Geologist

RWD:jh  
Encl: 4

cc: Extra encl.

## GEOLOGY

Oro Blanco Wash runs through an area of thin alluvium, of 25 ft. maximum thickness in the bottom of the wash. The alluvium is underlain by a dark reddish brown calcareous Cretaceous shale and clay. The shale strikes generally NW to SE and dips SW. The area is locally intruded and interfingered by a tertiary andesite. The shale has been locally metamorphosed and altered to dark gray along the andesite contacts.

Contacts of shale and andesite are exposed as a result of faulting and erosion along the east bank of the Oro Blanco Wash, 100 yards from the drill site.

HEINRICHS GEOEXPLORATION CO.

September 3, 1965  
P. O. Box 5671

Tucson, Arizona

ALASKA MOE



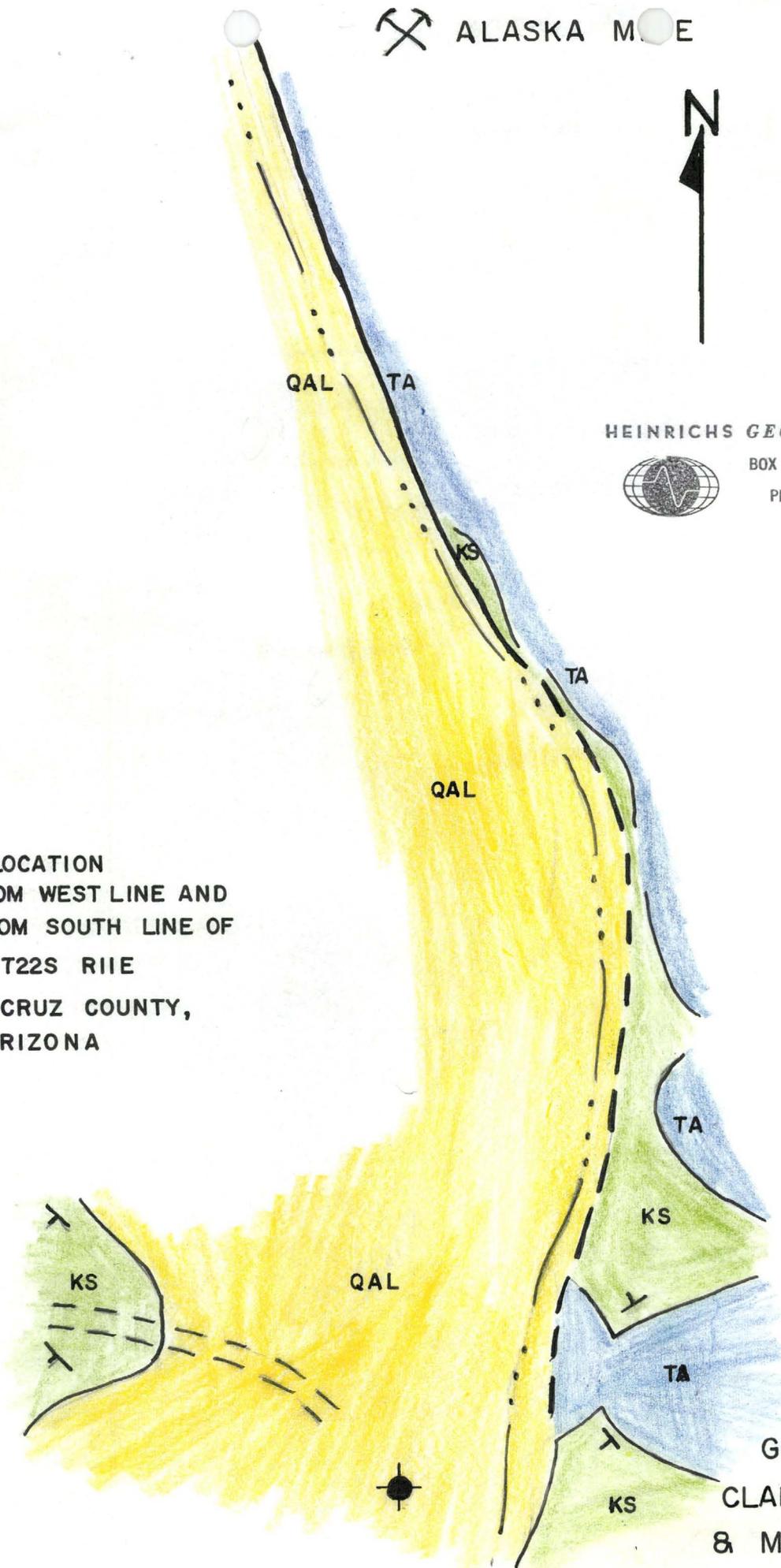
HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578



WELL LOCATION  
2200' FROM WEST LINE AND  
1300' FROM SOUTH LINE OF  
SEC. 13 T22S R11E  
SANTA CRUZ COUNTY,  
ARIZONA



GEOLOGIC SKETCH  
CLARKE WATER WELL  
& MINERAL PROSPECT  
SCALE 1" = 200' APPROX.

# Sample Description Clarke Well

Location: E $\frac{1}{2}$ , SW $\frac{1}{4}$ , Sec. 13, T22S, R11E, Santa Cruz Co., Ariz.

Total Depth

Top of Anolep ← Alluvium

Silt & siltst, soft, sbrd frag, gry, tight.  
 Sd, wht-clr, w rdd, ers (10-20%); Slt, gry, (50%), siltst, gry, w rdd frag, tight, (40%)  
 Same as abv w/ some red siltst, all poorly sortd.  
 Same as abv w/ no red; ss, as abv, (10%)  
 Siltst, gry, soft, tight (50%); Slt, gry, (40-50%); v. mnur ss, as abv; Occ. Bent.  
 Clay, sily, gry (50%); Siltst, gry, w. rdd frag (50%); v. mnur mud (?) balls, yel, siltst (70%); siltst (30%), and Bent.  
 Same as abv  
 Same as abv except some grn siltst; no Bent.

Siltst, gry w/ some grn, w rdd frag, soft (70%)  
 Clay, gry, sily, swells; One frag red mtl.  
 Siltst & Clay, as abv, occas. Bent, Calc.

Siltst and Clay, as abv, w/ Occ. Bent.  
 Calcareous

T.D.

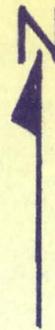
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ALASKA MINE



Qal  
Ks  
Ta

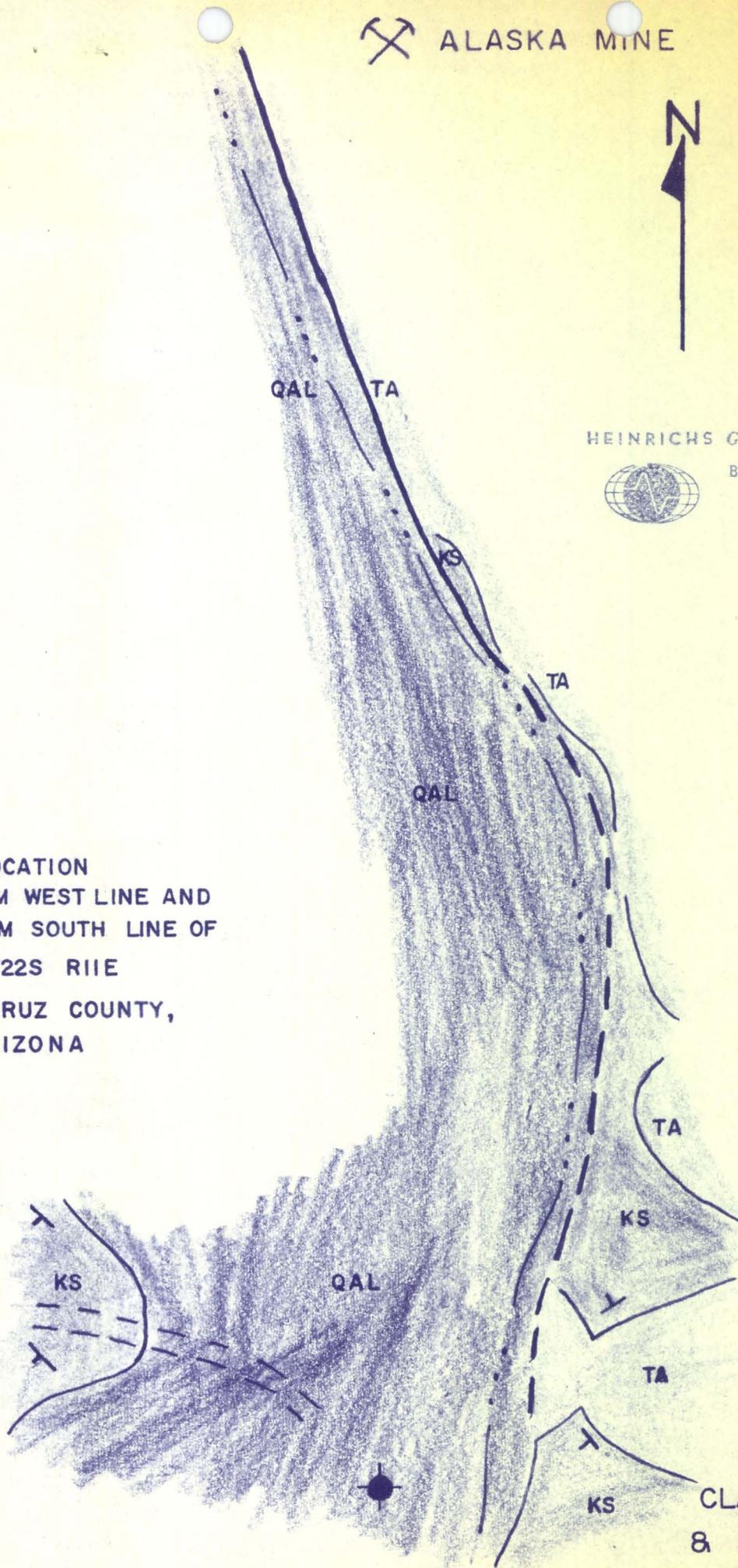
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Phone: (AREA 602) 623-0578

● WELL LOCATION  
2200' FROM WEST LINE AND  
1300' FROM SOUTH LINE OF  
SEC. 13 T22S R11E  
SANTA CRUZ COUNTY,  
ARIZONA



GEOLOGIC SKETCH  
CLARKE WATER WELL  
& MINERAL PROSPECT  
SCALE 1" = 200' APPROX.

# Sample Description Clarke Well

Location: E $\frac{1}{2}$ , SW $\frac{1}{4}$ , Sec. 13, T22S, R11E, Santa Cruz Co., Ariz

Top of Amoleff ← Alluvium



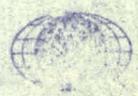
Silt & siltst, soft, sbrd frag, gry, tight.  
 Sd, wht-cls, w redd, ers (10-20%); Silt, gry, (50%), siltst, gry, w redd frag, tight, (40%)  
 Same as abv w/ some red siltst, all poorly sorted.  
 Same as abv w/ no reds, ss as abv (10%)  
 Siltst, gry, silt, tight (50%); Silt, gry (40-50%); v. minor ss, a subv; Occ. Bent.  
 Clay, silt, gry (50%); Siltst, gry, w redd frag (20%); v. minor mud (?) b&ms, yel, siltst (20%); siltst (30%), and Bent.  
 Minor, all as abv  
 Same as abv except some grn siltst; no Bent.

Siltst, gry w/ some grn, w redd frag, soft (20%)  
 Clay, gry, silt, siltst; Occ. frag red mtl.  
 Siltst & clay, as abv, occas. Bent, Calc

Siltst and Clay, as abv, w/ Occ. Bent  
 Calcareous

T.D.

**HEINRICHS GEOEXPLORATION CO.**  
 BOX 5671 TUCSON, ARIZONA 85703  
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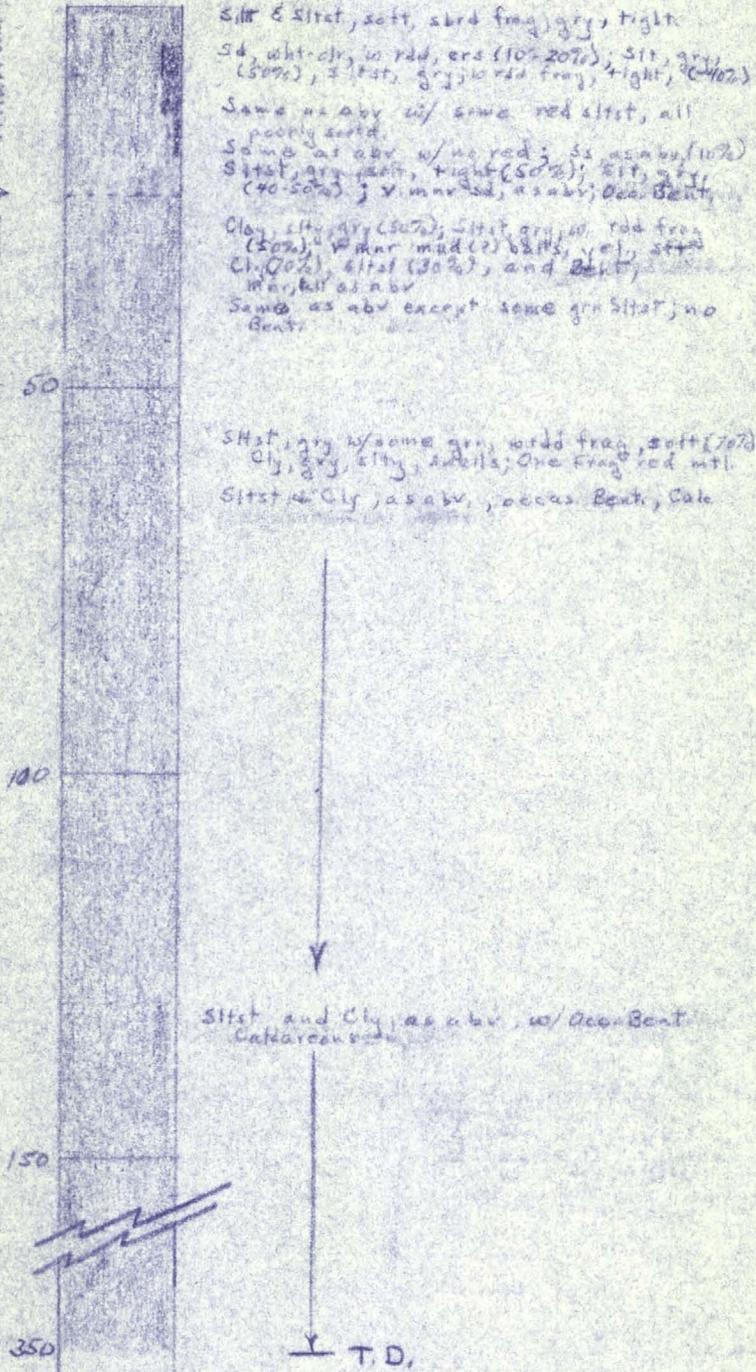




# Sample Description Clarke Well

Location: E $\frac{1}{2}$ , SW $\frac{1}{4}$ , Sec. 13, T22S, R11E, Santa Cruz Co., Ariz.

Total Available Alluvium



Silt & Siltst, soft, sbrd frag, gry, tight  
 Sd, wht-cls, w rdd, ers (10-20%); Silt, gry (50%), Siltst, gry, w rdd frag, tight, (40%)  
 Same as abv w/ some red siltst, all poorly sorted.  
 Same as abv w/ no red; ss as abv (10%)  
 Siltst, gry, silt, tight (50%); Silt, gry (40-50%); v. minor sd, as abv; Occ. Bent.  
 Clay, silt, gry (50%); Siltst, gry, w. rdd frag (20%); v. minor mud (?) bnts, Yel, siltst (10%); Siltst (30%), and Bent.  
 Marked as abv  
 Same as abv except some grn Siltst; no Bent.

Siltst, gry w/ some grn, w rdd frag, soft (70%)  
 Clay, gry, silt, sbrdcls; Occ. frag red mtl.  
 Siltst w/ Clay, as abv, occas. Bent, Calc.

Siltst and Clay, as abv, w/ Occ. Bent.  
 Calcareous

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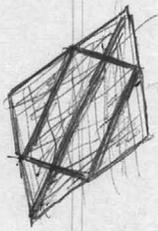
Phone: (RFA 602) 623-0578



## CLARKE HOLE # 1

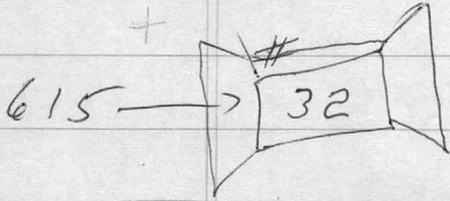
0-5	SILT, SAND	$\frac{1}{2}$	GRAVEL
5-10	"	"	"
10-15	"	"	"
15-20	SILT, SAND, GRAVEL	$\frac{1}{2}$	CHIPS OF SHALE
20-25	SILT, SAND, GRAVEL	$\frac{1}{2}$	CHIPS OF SHALE





Fred Johnson

Blue Goose Hotel Cw Hills Tenn



9123 room 18

capacity of Mike Clark Well

1 gpm      350'      1/2 hr for a 3 hr period

1 1/2 hr	8'	→
2 1/2 hr	10'	→
3 "	9'	→
4 "	9'	→
5 "	9'	→
6 "	9'	→

~~etc~~

it is capped small steel plate

$\frac{1}{3}$   
 $\frac{1}{9}$   
 3"

15" hole  
 8" hole  
 $\frac{1}{3} \times 9$

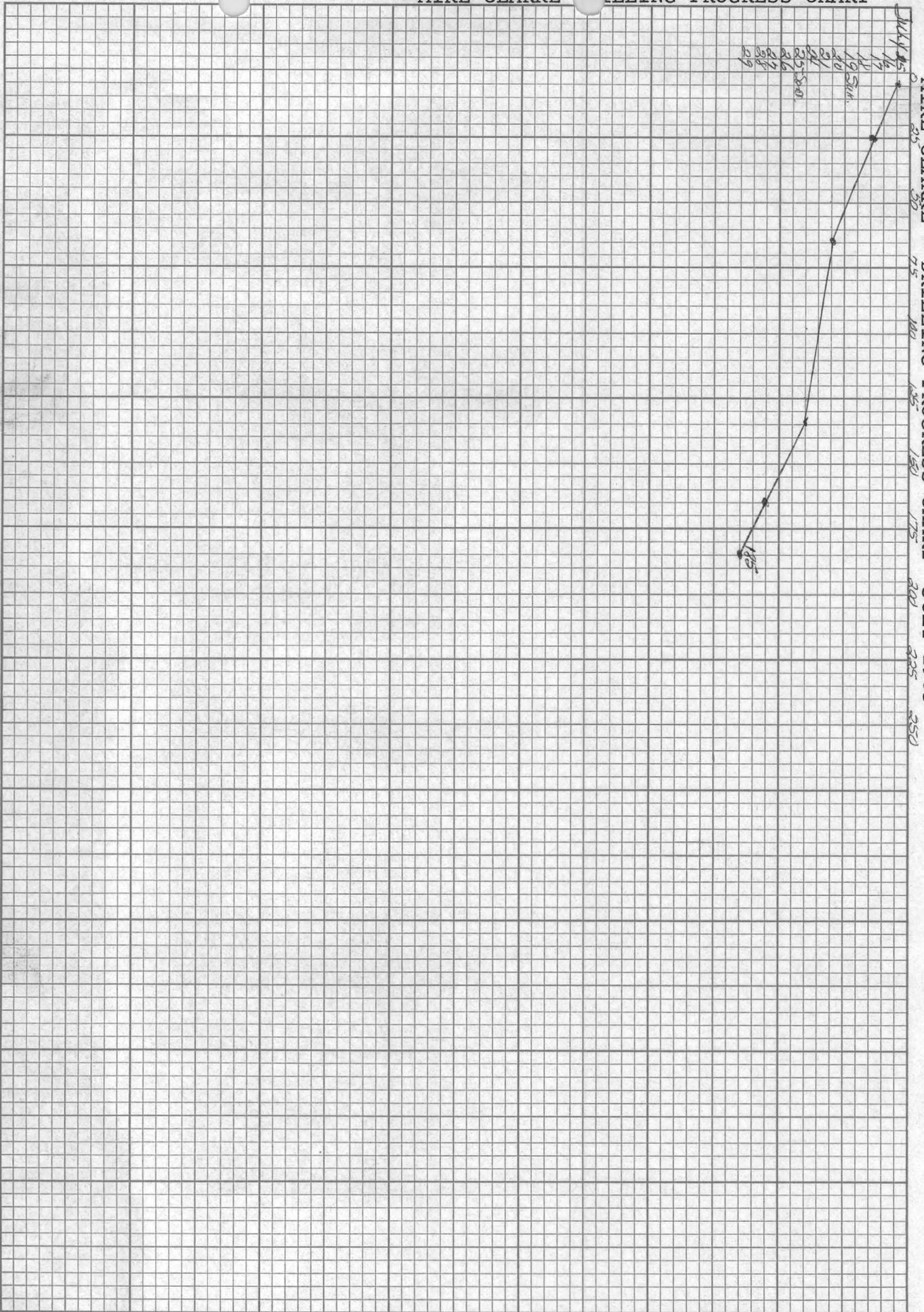
750  
 $\frac{1}{9}$

$\frac{24}{22}$

Start July 15 to 5'  
16 ?  
17 to 25'  
18 ?  
19 Sunday  
20 to 65'  
21  
24 to 135'  
25 Sunday  
26  
27 to 165'  
28 Broken down  
29 to 185'  
30  
31  
1  
2  
3 to 220'  
4 to 227'

# MIKE CLARKE DRILLING PROGRESS CHART

MIKE CLARKE - DRILLING PROGRESS CHART JULY 1965



359-5DG  
MADE IN U.S.A.

10 X 10 TO THE INCH  
KEUFFEL & ESSER CO.

KE