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Orig + 2 copies mailed 3/9/76

Mining Geologist
Registered: Arizona
California

JOHN E. KINNISON
5450 N. Bowes Rd.
Tucson Arizona
85715

(602)749-3453

March 8, 1976

Mr. R. B. Smith
Manager, Regional Exploration
Westinghouse Electric Corporation
3301 Northland Dr., Suite 408
Austin, Texas 78731

Subject: Mormon Lake Uranium (BF Minerals), Gila County, Arizona. Job No. 0120

Dear Sir:

Pursuant to your request, I visited the subject property, accompanied by Carl Bochman of Westinghouse, who operated the portable logging unit. We were guided over the property by William D. Folta, president of the BF Minerals Corporation of Dallas, who evidently holds an option or lease from the unpatented claim holders.

SUMMARY AND CONCLUSIONS

The area of anomalous radioactivity is on the south slope of Promontory Butte, about 20 miles east of Payson, along the rim of the Mogollon Plateau. Uranium, which occurs as pitchblend, is concentrated in thin conglomerate channels and mudstone lenses, associated with carbonaceous material, near the base of the Supai Formation (Permian). The occurences are in a reduced environment, overlain by redbeds, and appear to be of sedimentary origin.

Despite the reported high assays from previous drilling, I doubt that there is any appreciable tonnage of ore which can be inferred; and I suggest that the old assay data are probably incorrect, and are certainly too suspect of tampering to be considered in evaluation of the property.

If the terms of the property are quite favorable, it might be considered as a prospect worth additional geologic study; if the terms are steep, I do not recommend acquisition.

GEOLOGY

The uranium deposits occur near the base of the Supai Formation of Permian or Pennsylvanian-Permian age. The regional sedimentary history and stratigraphy, and the general character and probable origin of the Supai uranium deposits, are described by H. W. Pierce in an Arizona Bureau of Mines report, recently placed on open-file status. A copy of this excellent report has been obtained, and is enclosed herein. Based on my limited field observations, and the convincing arguments by Pierce, I concur with his conclusion that these Supai deposits are controlled by lithology and stratigraphy, and are probably the result of ground water solutions in the late Permian.

As exposed on the Mormon Lake property, and in the main, eastern open pit, the Supai consists of red shale and siltstone, with marls and thin lensoidal pebble-conglomerates near the base. The conglomerates, as exposed in the east pit, contain fairly abundant plant remains and other carbonaceous trash, and are locally enclosed within a gray shale and siltstone unit, also with carbon and local sulfides. The gray shales contain mudstone lenses--probably small channel fillings, and exhibit an obscure cross-bedding and also irregular, wavy bedding. A rough sketch of the beds in the east pit is shown by attachment A. The conglomerate section in the western, smaller pit, is tan and appears to be in an oxidized state.

The conglomerates are about 3 to 5 feet thick, on the average, but reach 10 feet in one channel in the east pit. Three separate conglomerate lenses are evident in the east pit, and there are no doubt others. As I did not have with me a portable scintilometer, no field measurements were made by me personally. Previous reports on the property, however, state that although radioactivity is most notable in the conglomerates, the mudstones also locally contain uranium.

The base of the carbonaceous beds and conglomerates are not exposed near the open pit, due to soil cover. Several hundred feet lower, along the main road into the area, there is a fossiliferous limestone--probably the Mississippian Redwall limestone.

The uranium is reported by Pierce, and by Hazen Research who studied samples for Southern Union Oil Co., to occur as pitchblend. Hazen also recognized pyrite, chalcopyrite, galena, shalerite, and bornite. The pyrite is reported to be partly bravoite (nickeliferous pyrite). Chalcocite and covellite are present as secondary alteration products.

The deposits seem to be best regarded as peneconcordant, and largely channel-controlled. They occur in a reduced environment in a clastic sequence of redbeds, and are not unlike other deposits of the Plateau province.

DRILL HOLE DATA AND LOGGING

Thirty-nine drill holes were reported to have been dug by the Southern Union Oil Production Co., of Dallas, Texas, in 1968. The property was later obtained by Pan American Mines Ltd., who drilled 19 percussion holes and three diamond drill holes. Pan American (report by Marcel Morin, 12/14/71) obtained results of 36 of the Southern Union holes.

Both the Southern Union and the Pan American percussion holes yielded astonishingly high assays (up to and exceeding 1% U_3O_8) over thicknesses of 5 to 25 feet. The assaying of the samples was by reliable firms--Hazen and Hawley and Hawley. Many of the holes probed by Pan American, however, did not duplicate the cuttings sample reports, casting grave doubts that they had been tampered with during or after collection. Moreover, the diamond drill holes, carefully supervised by Mr. Morin, were blank. Two of these were adjacent to percussion holes with high assay sections, and one was a new site, but located within the general drilling grid from which all holes reported ore.

I reviewed Mr. Morin's detailed report while on the property, and also took notes for further study (this report is not in the Westinghouse file--only Mr. Folta seems to have a copy.) On reflection, I must conclude that most of the high-grade assays--present in most drill holes--result from deliberate salting. Mr. Bochman and I could not find enough holes to shed much light on this, but the problem seems apparent on close study of Morin's report. The lone exception was our No. 1, at the site of Southern Union ML-9. This hole was logged to a depth of 209 ft., without detecting other than background radioactivity of 10-25 cps. ML-9 was reported to have intersected 11 feet of 3.23% U_3O_8. The other open holes north of the east pit were not deep enough to reach the conglomerate horizon.

In the area of the east pit, the drill holes shown may actually have intersected anomalous horizons as shown, but probably not of the grade reported. Attachment B is a sketch of this area, and attachment C gives the reported intercepts. Mr. Bochman's log of our No. 6, in the pit floor, showed two narrow zones (less than 2 feet) of anomalous count. The erratic elevations of the top of reported ore (att. B) suggests the intersection of several meandering radioactive channels.

Bochman's logs of our Nos. 7, 8, and 9 (these are recent Exxon holes) did not show radioactivity (att. D). The elevation of these holes, however, was about 6,310 feet (pocket altimeter), and they may not have been open to a depth sufficient to reach the conglomerate horizon.

CONCLUSIONS

The reports of widespread, ore-grade intercepts, appear to be without substantiative foundation. No ore appears to be in sight, and the property must be ranked strictly as a prospect. Exxon has reportedly drilled many holes on these claims during the last year, and has withdrawn. We found many probable Exxon sites, and they may have drilled as many as 40 holes. Either they obtained very little encouragement from this drilling, or at least not enough to justify acquisition.

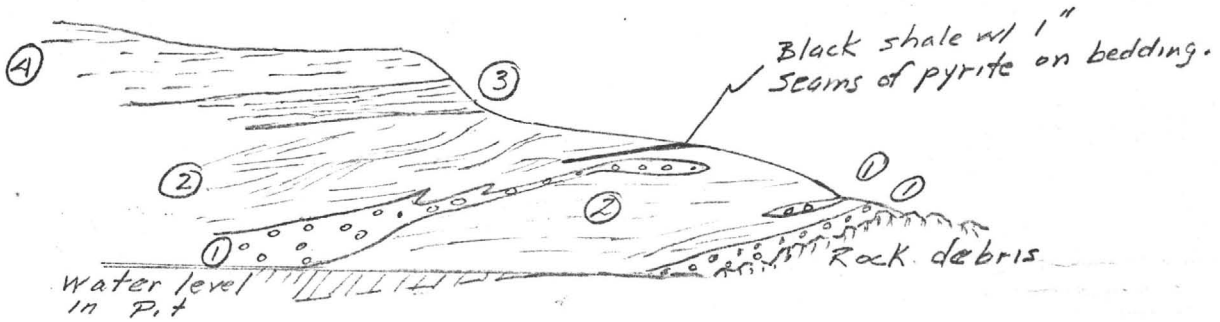
If the property can be obtained on very favorable terms, this might be considered, providing that Westinghouse is interested in searching for channel deposits of limited tonnage.

Yours very truly,

John E. Kinnison

Registered Geologist
CERTIFICATE EXPIRES
John E. Kinnison
DEC. 31, 19
ARIZONA, U. S. A.

A



① Pebbly cgl w/ cabonaceous frags and plant prints. Tr py; Tr cpy? 0-10 ft thick. Three units exposed.

② Gray shale w/ poorly developed cross lamination, mudstone lenses, and irreg. bedding.

③ Gray shale, 10 ft thick, with uniform bedding

④ Red limy shale

Overall dip of strata units, 2° NE.
Dips of x-strat. & channel lens is up to 25°.

Registered Geologist
CERTIFICATE EXP. DEC. 31, 1976
John E. Kinnison
ARIZONA, U.S.A.

MORMON LAKE URANIUM
SKETCH of EAST WALL of EAST PIT

J.E. Kinnison;
Redrawn from field sketch of 2/23/76

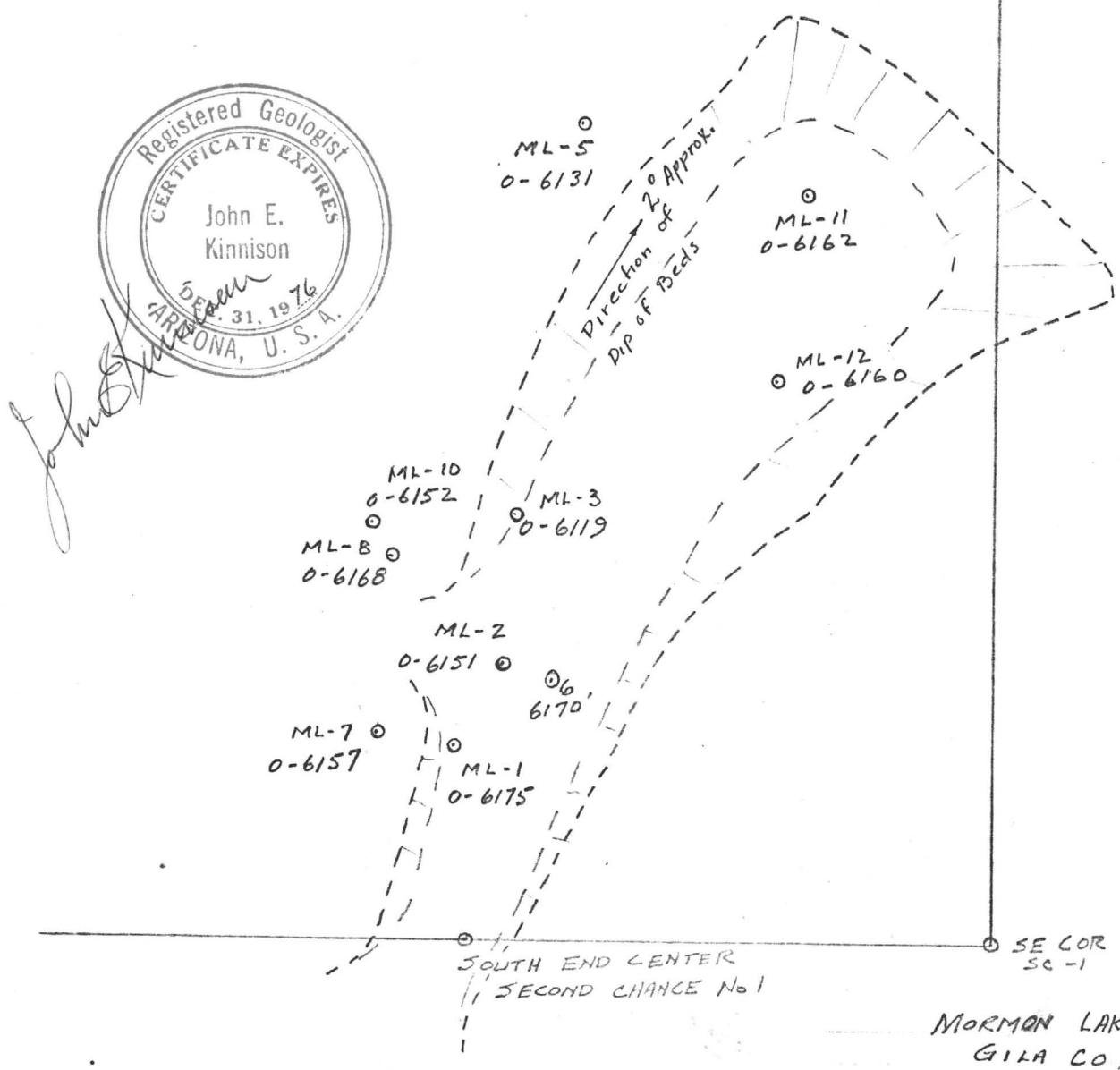
B

SOUTHERN UNION HOLES

ML-1 . Elevation of top
0-6175 of reported ore, ft.

. 2 Unkown Hole - Located
6328' by C.D. Chisolm and
assigned number, showing
Collar Elev.

Note: Basic Pit outline and location of holes 1-5 taken from Brunton & pace map by C.D. Chisolm. Elev. of 1-5 by leveling (JEK) based on 6270' Elev of ML-9 site. No 6 by adj. pocket alt. reading. None of So. Un. Holes found except ML-9. Locations taken from map by Marcel Morin of Pan. Am. Mines.



MORMON LAKE URANIUM
GILA CO, ARIZ
EAST PIT AREA
J.E. KINNISON
1" = 100 ft.

C

MORMON LAKE URANIUM

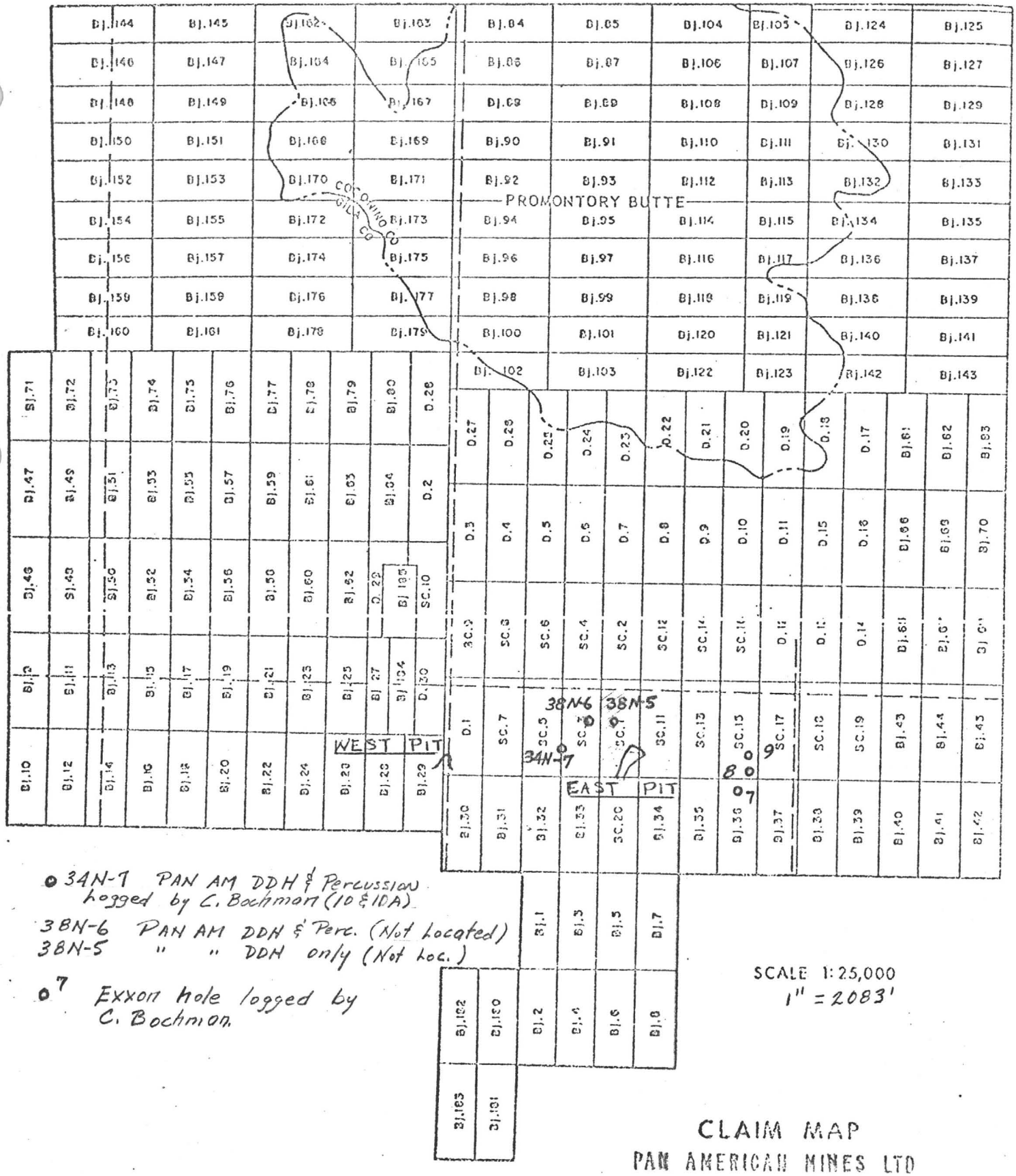
SOUTHERN UNION HOLES
(Near East [Main] Pit)

Hole No.	Thickness of Ore in Inches	Grade, % U_3O_8	Depth to top of ore	Collar Elevation
ML-1	128	.36	29 ft.	6204 ft.
ML-2	70	.27	39	6190
ML-3	109	.76	60.5	6180
ML-5	257	.51	106	6237
ML-7	125	.60	23	6180
ML-8	55	.32	28	6196
ML-9	136 } 2 ore Runs	3.23	169.5	6270
	38	.47	200	
ML-10	60	.55	40	6192
ML-11	279	1.70	59.5	6222
ML-12	27 } 2 ore Runs	.59	42.5	6202
	124	.29	58	

Note: Assays on cuttings or core
by Hazen Research

Copied from data collected
by Marcel Morin of Pan American
Mines Ltd. Report 12/14/71
— J. E. K. 2/23/76 —

C



o 34N-7 PAN AM DDH & Percussion logged by C. Bochman (10 & 10A)

38N-6 PAN AM DDH & Perc. (Not Located)
38N-5 " " DDH only (Not loc.)

o 7 Exxon hole logged by C. Bochman.

SCALE 1:25,000
1" = 2083'

CLAIM MAP

PAN AMERICAN MINES LTD
MORMON LAKE URANIUM PROPERTY
GILA AND COCONINO COUNTIES
ARIZONA

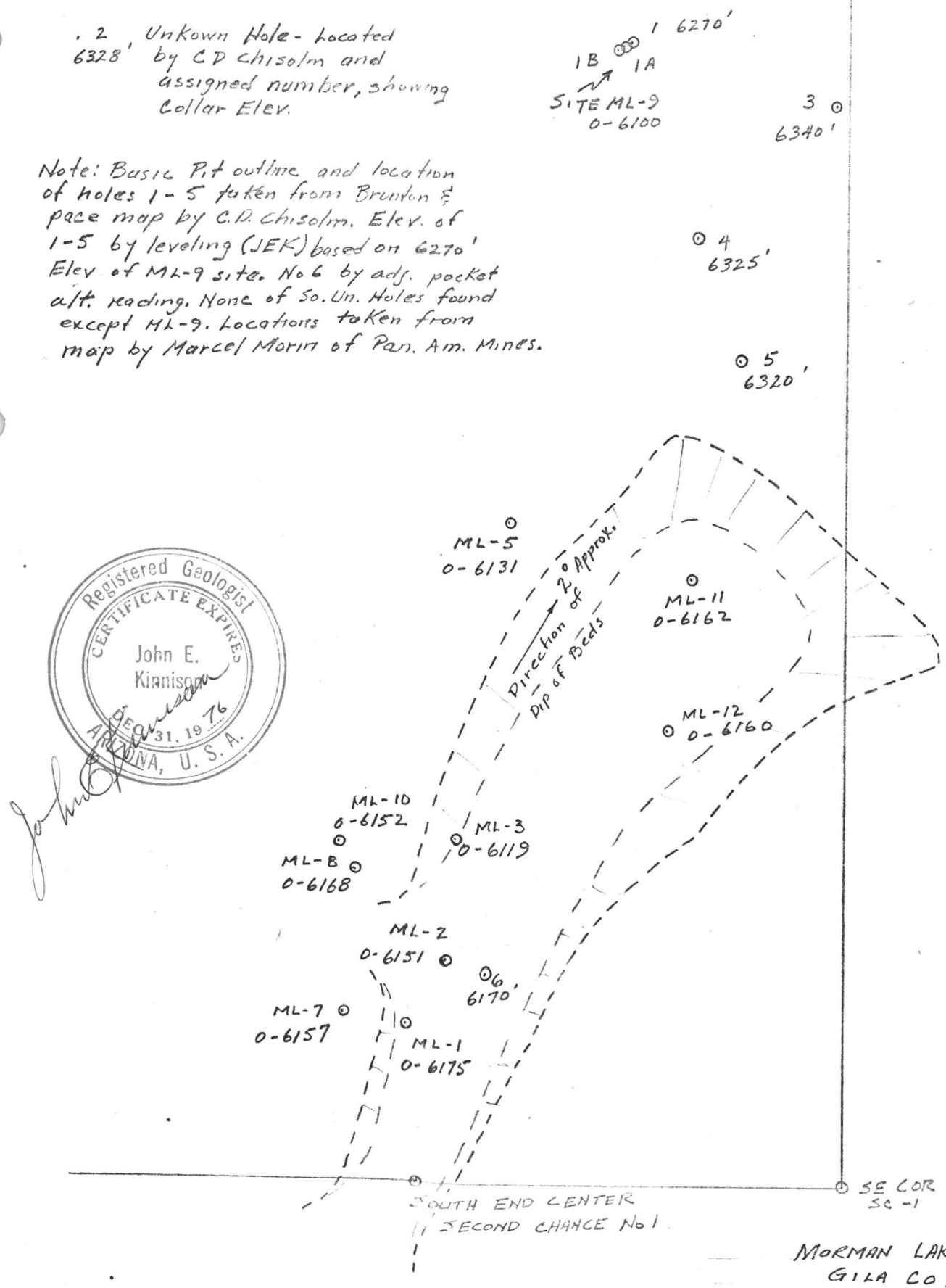
Mormon
misspelled

SOUTHERN UNION HOLES

ML-1 . Elevation of top of reported ore, ft.
0-6175

. 2 Unkown Hole - Located by C D Chisolm and assigned number, showing Collar Elev.
6328'

Note: Basic Pit outline and location of holes 1-5 taken from Brunton & pace map by C.D. Chisolm. Elev. of 1-5 by leveling (JEK) based on 6270' Elev of ML-9 site. No 6 by adj. pocket alt. reading. None of So. Un. Holes found except ML-9. Locations taken from map by Marcel Morin of Pan. Am. Mines.



Registered Geologist
CERTIFICATE EXPIRES
John E. Kinnison
DECEMBER 31, 1976
ARIZONA, U.S.A.

MORMAN LAKE URANIUM
GILA CO, ARIZ
EAST PIT AREA
J. E. Kinnison
1" = 100 ft.

MORMAN LAKE URANIUM

SOUTHERN UNION HOLES
(Near East [Main] Pit)

Hole No.	Thickness of Ore in Inches	Grade, % U_3O_8	Depth to top of ore	Collar Elevation
ML-1	128	.36	29 ft.	6204 ft.
ML-2	70	.27	39	6190
ML-3	109	.76	60.5	6180
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	124	.29	58	

Note: Assays on cuttings or core by Hazen Research

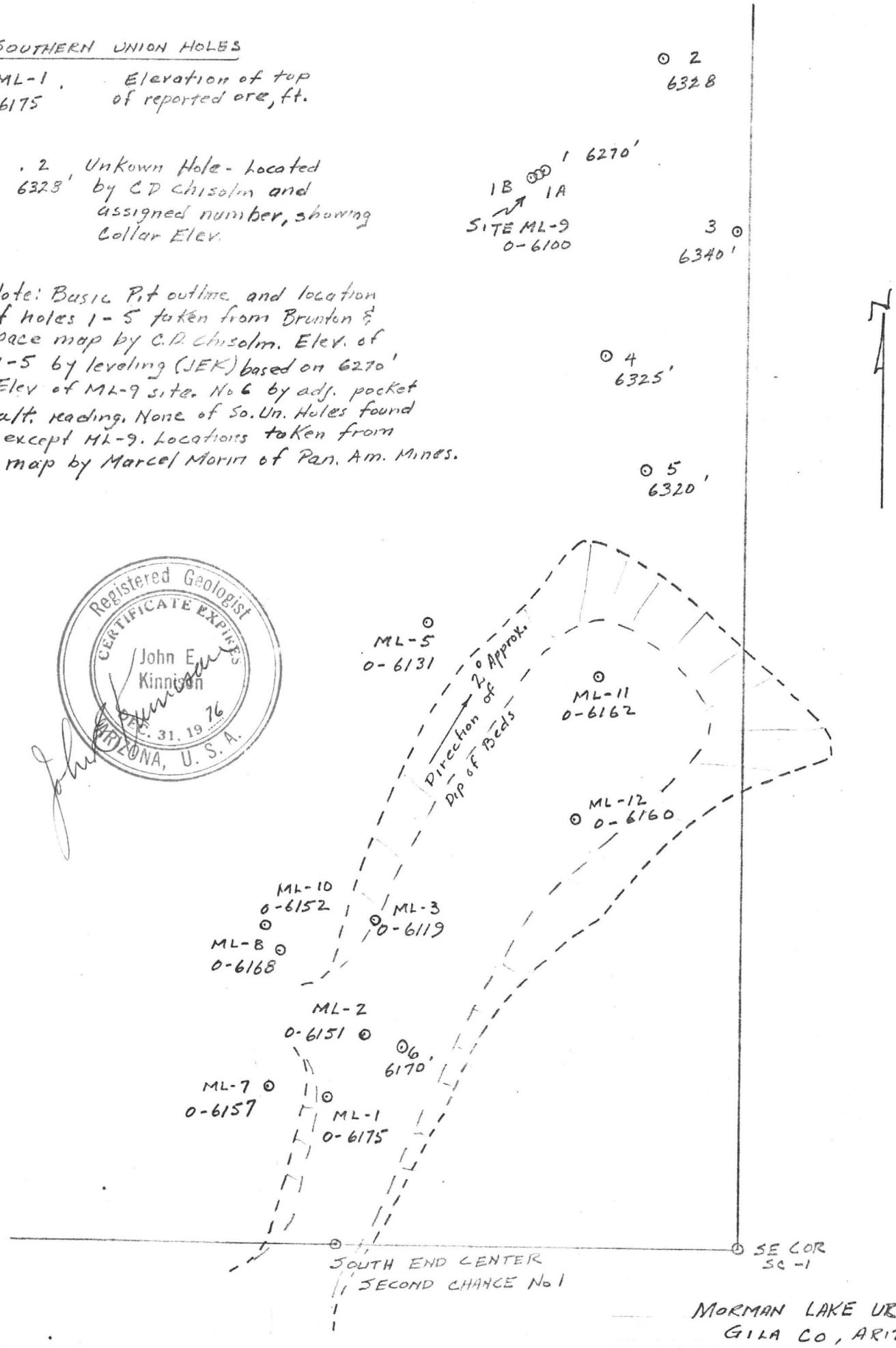
Copied from data collected by Marcel Morin of Pan American Mines Ltd. Report 12/14/71
— J. E. K. 2/23/76 —

SOUTHERN UNION HOLES

ML-1, 0-6175 — Elevation of top of reported ore, ft.

2, 6328' — Unkown Hole - Located by C D Chisolm and assigned number, showing Collar Elev.

Note: Basic Pit outline and location of holes 1-5 taken from Brunton & pace map by C.D. Chisolm. Elev. of 1-5 by leveling (JEK) based on 6270' Elev of ML-9 site. No 6 by adj. pocket alt. reading. None of So. Un. Holes found except ML-9. Locations taken from map by Marcel Morin of Pan. Am. Mines.



MORMAN LAKE URANIUM
GILA CO, ARIZ
EAST PIT AREA
J. E. Kinnison
1" = 100 ft.

MORMAN LAKE URANIUM

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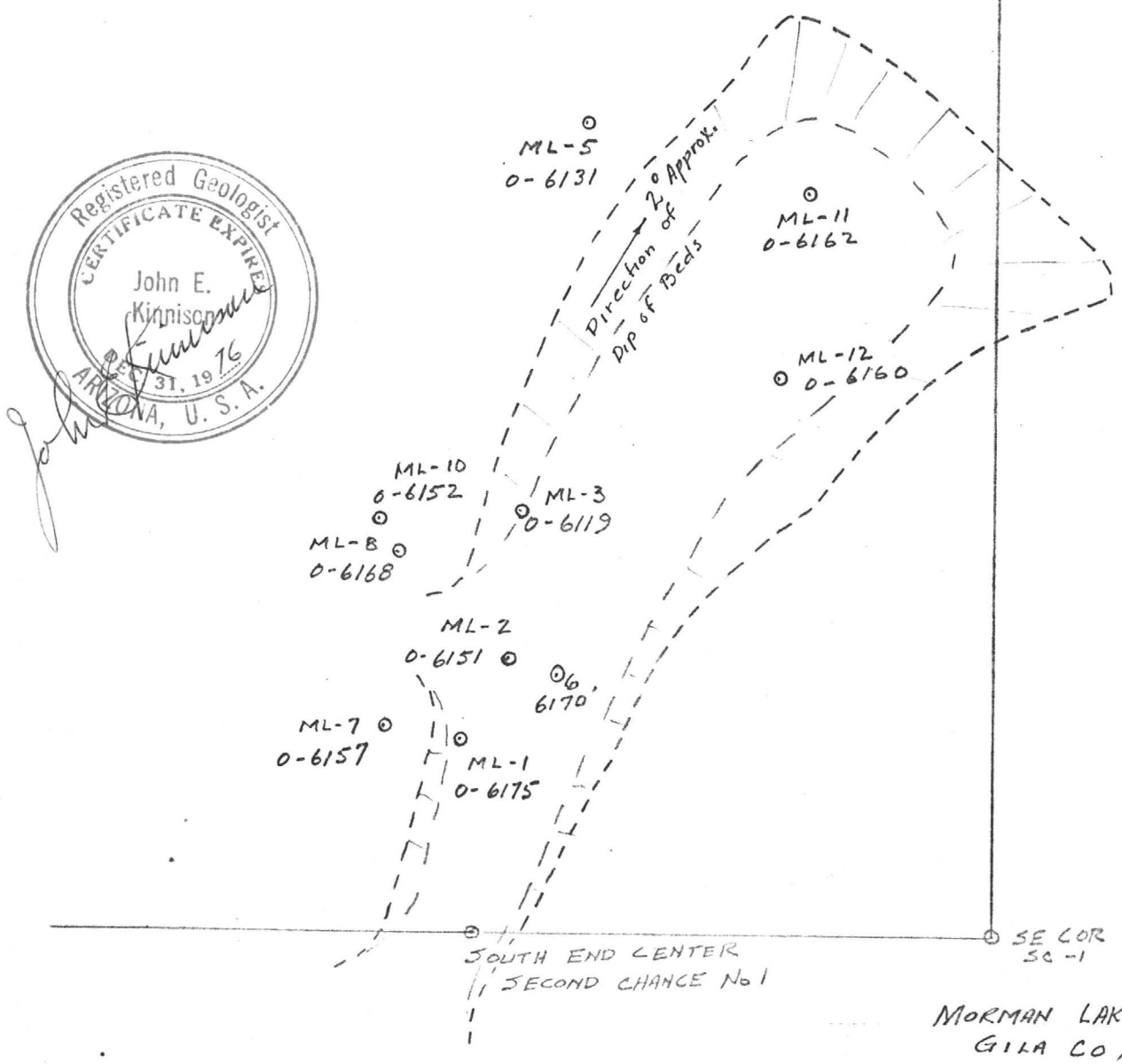

Registered Geologist
CERTIFICATE EXPIRES
John E. Kinnison
DEC 31, 1976
ARIZONA, U.S.A.

MORMAN LAKE URANIUM
GILA CO, ARIZ
EAST PIT AREA
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1" = 100 ft.

MORMAN LAKE URANIUM

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MORMON LAKE URANIUM

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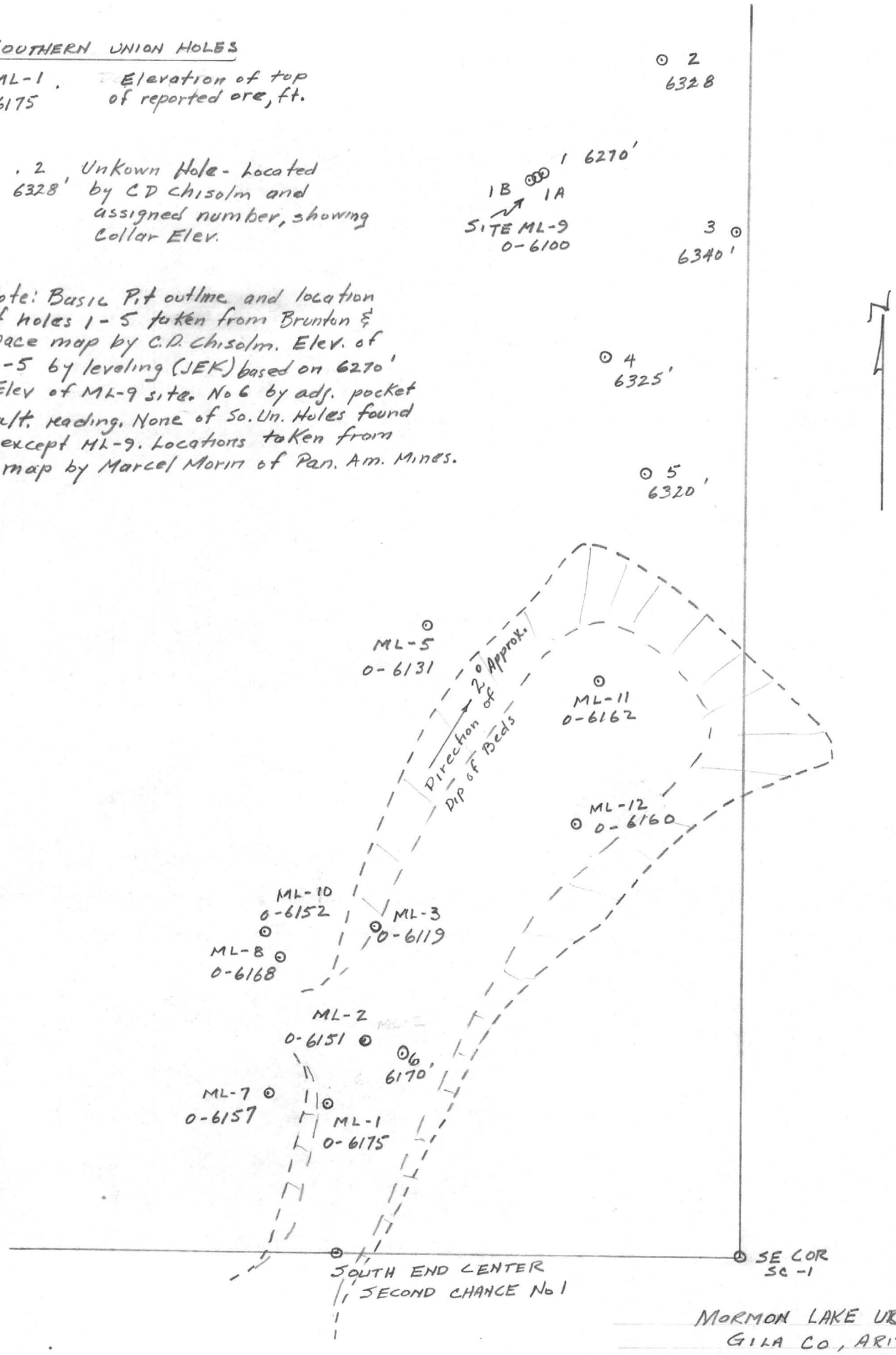
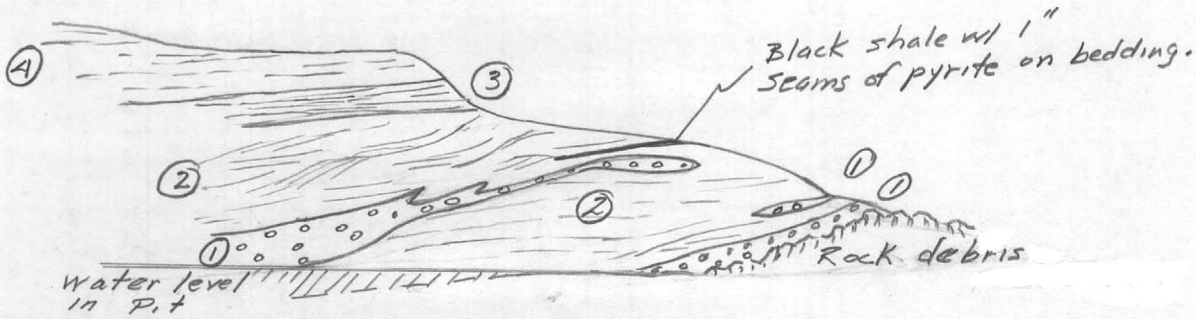


MORMON LAKE URANIUM
GILA CO, ARIZ
EAST PIT AREA
J. E. Kinnison
1" = 100 ft.



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③ Gray shale, 10 ft thick, with uniform bedding

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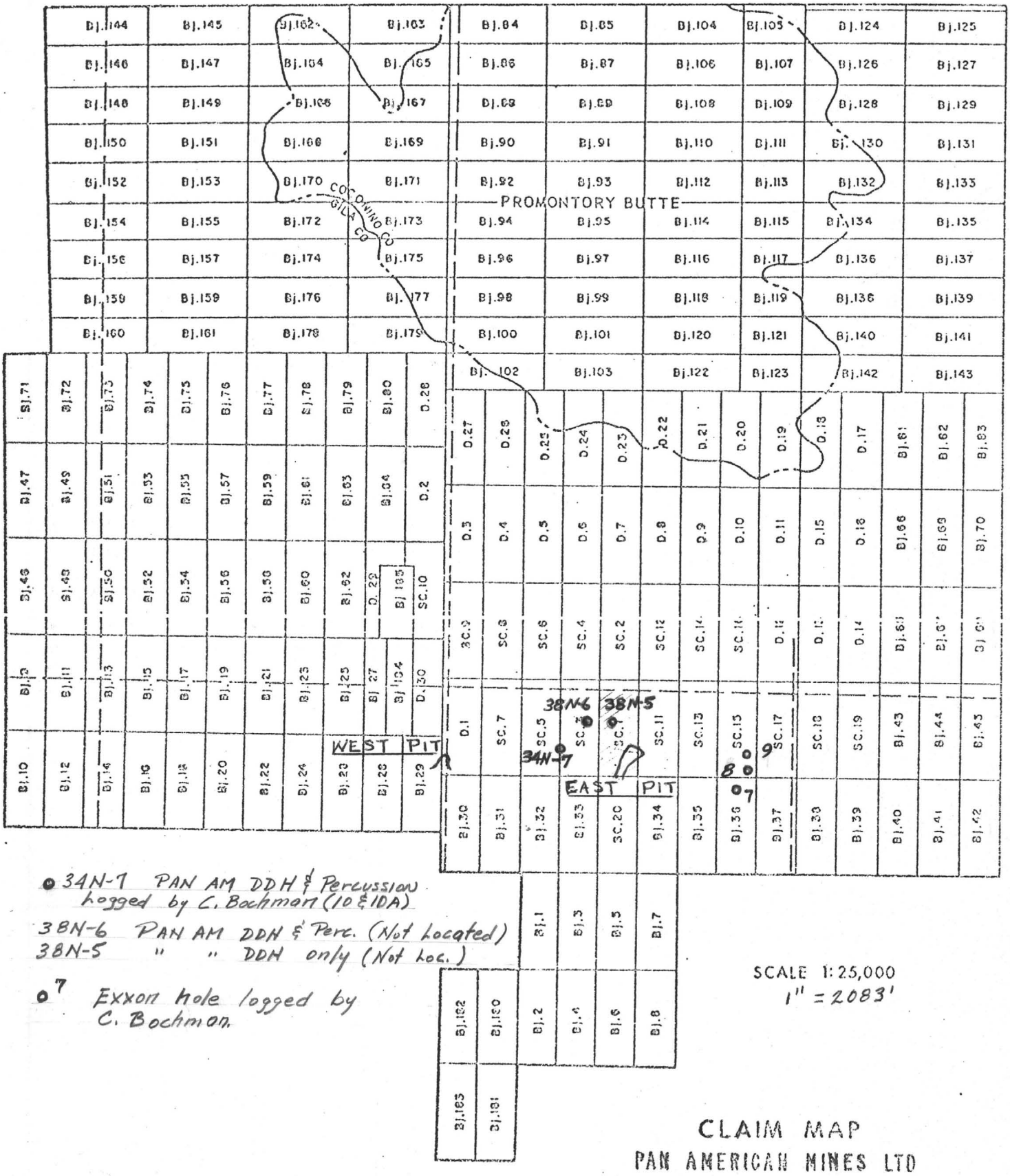
Overall dip of strata units, 2° NE.
Dips of x-strat. & channel lens is up to 25°.

MORMON LAKE URANIUM
SKETCH of EAST WALL
of EAST PIT

J. E. Kinnison;
Redrawn from field sketch
of 2/23/76



● 34N-7 PAN AM DDH & Percussion logged by C. Bochman (10 & 10A)

38N-6 PAN AM DDH & Perc. (Not Located)

38N-5 " " DDH only (Not Loc.)

o7 Exxon hole logged by C. Bochman.

SCALE 1:25,000
1" = 2083'

CLAIM MAP

PAN AMERICAN MINES LTD

MORMON LAKE URANIUM PROPERTY

GILA AND COCONINO COUNTIES

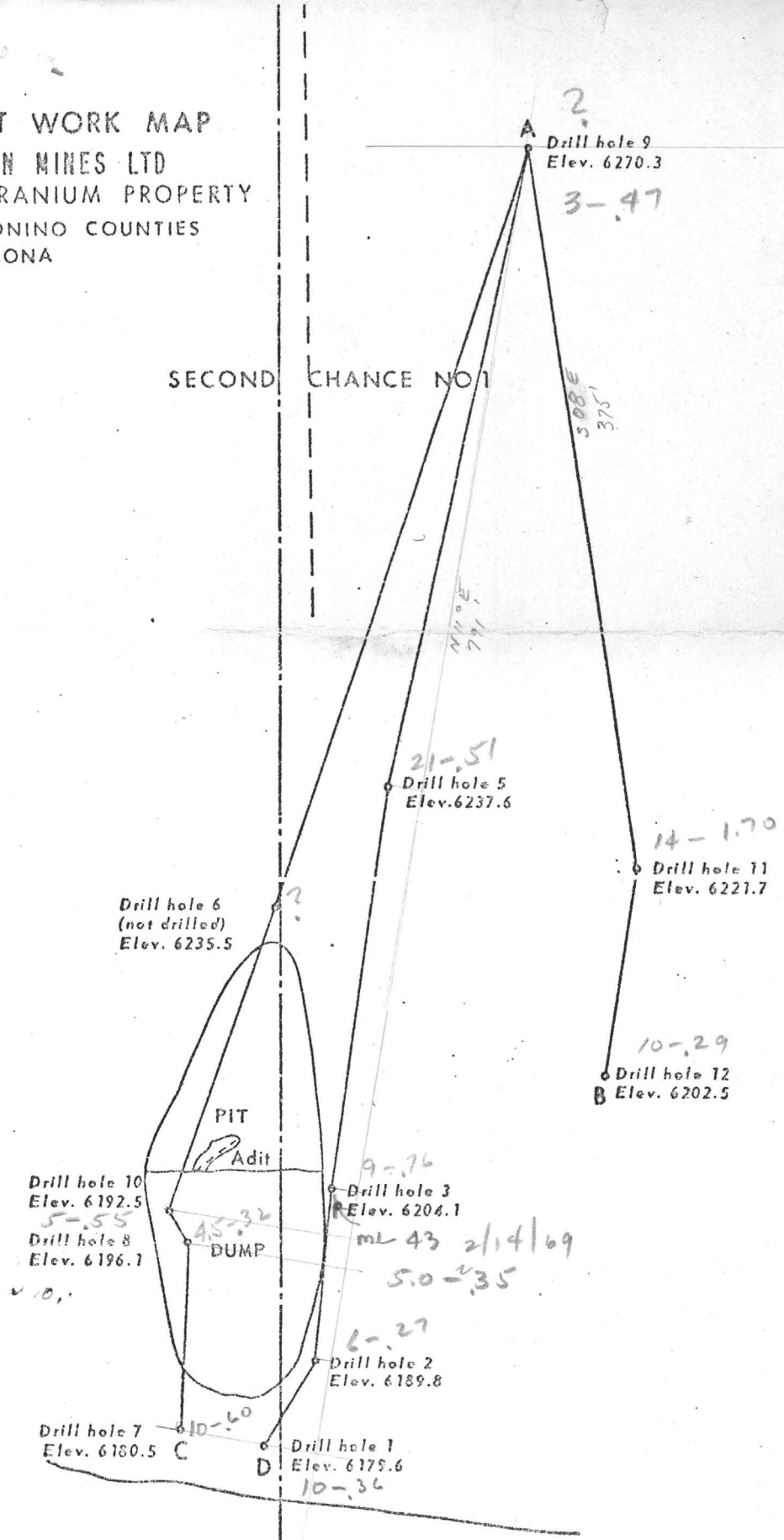
ARIZONA

Pursued Drawing
June 1st 1977

Copy borrowed
from Westerghouse
file: Mormon Lore
Arizona

C.O. Chisolm Pencil
Notes.

DEVELOPMENT WORK MAP
PAN AMERICAN MINES LTD
MORMON LAKE URANIUM PROPERTY
GILA AND COCONINO COUNTIES
ARIZONA



Marcel Warren Eng
April 1st 1971

(1)

Feb 23 1976

Morris Lake Uranium

Notes - Report by Macel Morin - Eng for Pan American Mines Ltd. Quebec, Canada. - Possessed by Bill Folta; not contained in Westinghouse file. Dec 14 1971

235 claims: History: - One property belonged to Neptune Mines - reported to have done "considerable" drilling. Shipments of ore made prior to 1956 to a custom mill. 1968 -- property assigned to Southern Union Oil Production Co.; Dallas Texas. So. Union did Airborn and ground Radiometric Survey and drilling. Pan American mines acquired the property, and conducted 2-phase drilling program. First: 11 holes near main pit -- Small percussion drill, samples collected on a canvas blanket at 5' intervals. Light equipment broke down. 2nd phase - heavier air track rig to depths > 200'. hole had length of collar pipe and seal around rods and a blower into a "T" in the sample line aided collection of cuttings by a cyclone. Total 8 holes by 2nd phase.

Also Pan Am sunk 3 DDH, wl HQ - 2 adjacent to air track holes, and one on a new site. Scintrex was contracted to probe all holes, but this was not done -- for reasons unstated.

Phase 1 - supervised by a "Field Mgr" -- no special sampling precautions were taken.

Phase 2 (and D. Drilling) - directly supervised by Mr Morin - also 2 samplers were hired from Hawley and Hawley.

Pan Am collected previous data on 36 of 39 holes drilled prior to 1971 by So. Union. Not known how many of these were cored, and no evaluation could be made of sampling techniques

So Union dug main pit?

The following paragraph by Morin is unclear. My interpretation is: Apparently 7 holes had negative (poor) assays, presum. on the cuttings samples, and these holes gave "peaks" on radioactive probes done by So. Union. These "peaks" had amplitudes and widths comparable to those other holes which had higher Uranium (by cuttings). Holes with no cuttings value but probe values were ML 30, 32, 33, 35, 37, 39, 42. 5 holes which returned "ore-grade sections" did not have a corresponding probe peak. Morin speculates that the probe may have been ~~pro~~ defective and/or the uranium was so spotty it was entirely removed by the drill hole cuttings. These holes were ML 9 16 17 18 20.

Then ML9 - is hole Carl Bochman probed above the pit which was open to about 200', with no anomaly. This hole had a hi-grade assay section. Finally, 10 holes listed by Morin which he states "gave good assay results with partial or complete corresponding intervals (by Probe results), as shown by the footages in the table". ML 1, 2, 3, 5, 7, 8, 10, 11, 12, 14 - holes had corresponding cuttings assays and probe results -- these are all older results of Southern Union -- all in pit area.

Diamond Drill - Morin states was "catastrophic" should this be 38N? → ~~8N~~ 8N-6W-B gave neg results "except for one small piece of pitch blend in the red sandstone." "Other pitchblend fragments in the core had to be rejected."

Hole 38N-6W-B - Pitchblende at 70' had to be discarded.
34N-7W-B - A few inches of radioactive ogl.

4 M.U. tons - based on 2400' length investigated x a width 1000 ft, time back the zone to the edge of exposure and the wide sections at both ends, with an average thickness of 20 feet.

Pan Am Mines map 200'=1" - Folta has this, but is not in Westinghouse files. Westinghouse map files do not have all the holes that are on this one.
They (the holes) extend from an area in the south 1/2 SC 11 westerly thru SC-1, SC-3, SC-5, SC-7, to D-1 which is the W. claim of this map. and the edge edge of the little West Pit is along the So part of the west line of claim D-1. Few holes with data shown to the south, on claim BS 32 an 31. All holes have good intercepts. Some toward W. Pit shown many grades between .05 - .26% - one .41% assay. Working E toward SC-1 the grades get into hi grade section, that is assays shown > 2% U_3O_8; Ave of these holes would be over 1%. Farther to E, on SC 15 and into SC17, Folta details new roads and some new holes. A group of old holes (23, 17, 25, 18, 19, 20, 22) shown here. 5 or 6 Exxon site

(Mar 28 1969 - Hazen Research report on mineralogy)

identifies pitchblende only uranium mineral, occurring in detrital frags of carbon trash in the cgl.

Sulphides - pyrite - B. ravoite — (Ni-Pyrite system)

galena ~~stet~~, sph, cpy, born., Cc and Cov.

Polished section study - exsolution ~~temp of~~ blebs of cpy within sph - 350-400°C

cpy exsol blebs in bornite where it occurs as thin blades exsolved along the octahedral planes in bornite. - +475°C, then rapid cooling below 475°C.

Cc & Cov are secondary.

B & M Mormon (Mormon Lake) Dave Davidson Municipal Airport Air Recon

Feb 23 1976

Small anticlinal monocline seen on Diamond Pt. Beds dip low to N.

Viewed from Pic Pt – Promontory Butte Beds and Platen lin look ~~flat~~ flat.

Chrysotile Mtn Beds smooth-irreg – with some so dip.
– May be Apache gp.

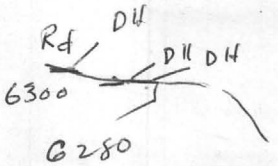
Gray SS NW of Pit on Ridge – ~~N & W dip~~ Flat.
Dip, vy sl, in E pit can be seen – but beds above look flat.

Flying SE over Promontory – Poss vy sl N dip.
x bed in beds on Butte.

Local dips to 25° seen on Rel From Kohl's to Field town off ~~Ho~~ to property. – similar to Diamond Pt?

At East Pit. gray arkosic pebble cgl overlain by red limy shale
Very slight inclination (2°) N 30 E.
(As exposed) – cgl bed is +5' thick with thin shaly layer
at S. base of Pit.) near bottom of exposure. local carbonaceous
~~that~~ with minor cpy.

the cgl is lensoidal and there are two or more beds – 3 evidently filling channels. The int. shale is lensoid with channel fills. and cross bedding. St Py w/garnet + cpy?
as bedding lenses in one black fresh shale ~~interbed~~ layer
0 few feet above the highest cgl. Cgl thick 0–5'.



At West Pit – Top of pit about 15' below Rd above is a cgl @ 61905', part as a lens as it is only on the west bank. Shale ~~above~~ reddish or tan, and cgl is tan.

On the Rd into property, at 5850', a gray ls and some shaly limestone – lots of fossils – mol pelecypods. Some of bed is gravel.

2/27/76 Teleph from Carl Bochman

7 158' TD Backgr

8 135' TD Normal Back

9 150' TD " "

114-134' sl. buildup -

Mormon Lake

10 72 TD At Bottom - 2250 - 68-69'

@ 51 - prepeal - 2000

10A 66 TD From 48' buildup on background. 33 cps

Eh 7 6300

8 6320 alt.

9 6310

Mormon Lake

Logs -

CDC # 5 - open to 110' Collar in Red brown silty sandstone 4 3/4" Hole No Csg
10 - 15 cps No anomalies

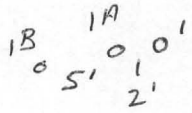
#4 - open to 120' Collar in soil. 10 - 25 cps
No anomalies

#3 - open to 40' - Not logged

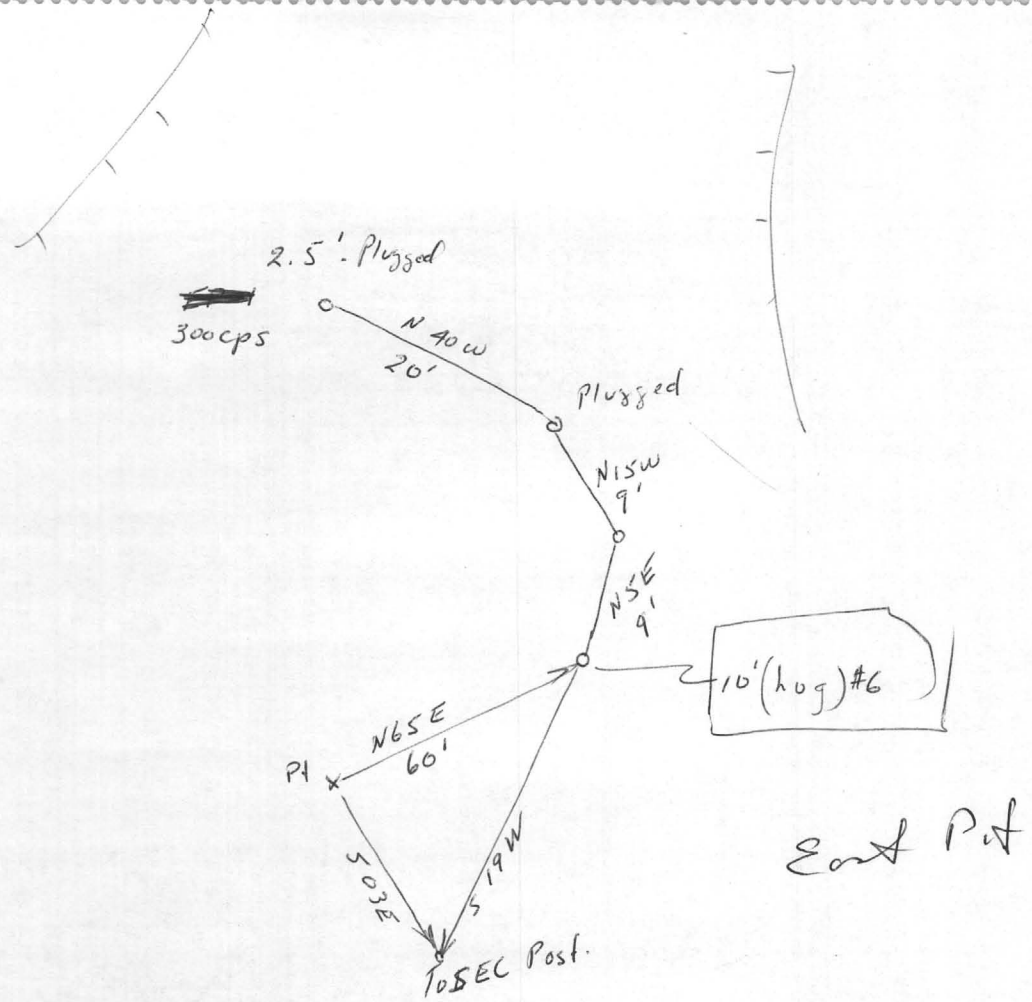
#2 - Open to 64' - Background - No anomalies

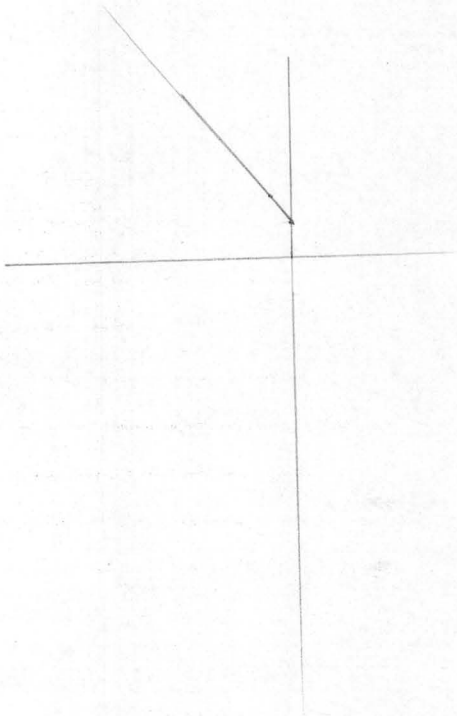
~~#1, 1A, 1B~~

#1 (E of 3 holes) open to 209 - 5 - 25 cps No anomalies
#1A Middle 84' - Background only
#1B West 48' - Not logged.



#6 - 1/2 - 2' - 900 cps
9' - 10' - 2050 cps 2 - 9' 30 cps background - 4"
13' TD.


2.5'. Plugged
300cps
N 40 W
20'
Plugged
N15W
9'
N5E
9'
10'(hog)#6
N65E
60'
P1
S03E
S19W
10SEC Post.
East Pit



Important to Probe — 2 open holes —

34N-7 (Chem Assays H & 'H) @65', 35' @ 2.35% U_3O_8

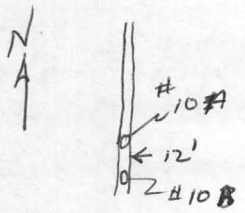
~~Anything around Pit area~~ E.

DDH at Same spot - 34N-7W-B-N.1

38N-5 DDH - N.1 - Not found
only Assays N.1

38N-6 @65' - 30' @ 2.02% U_3O_8
DDH at same spot 38N-6W-B - N.1 - Not found.

34N-7 All (El 6245 when logged on 25 Feb
6240 when checked on 24 Feb
Use 6250' —



10A - 65-68 - 2000 cps high.
10B - 65 - 5 mo count.

Upper holes

#5 Uncorrected alt. Readings

5) 6300 —— 12.00 noon

4) 6305 Sy leveling

3) 6320 " "

2) 6308 " "

1, 1A, 1B) 6291 " "

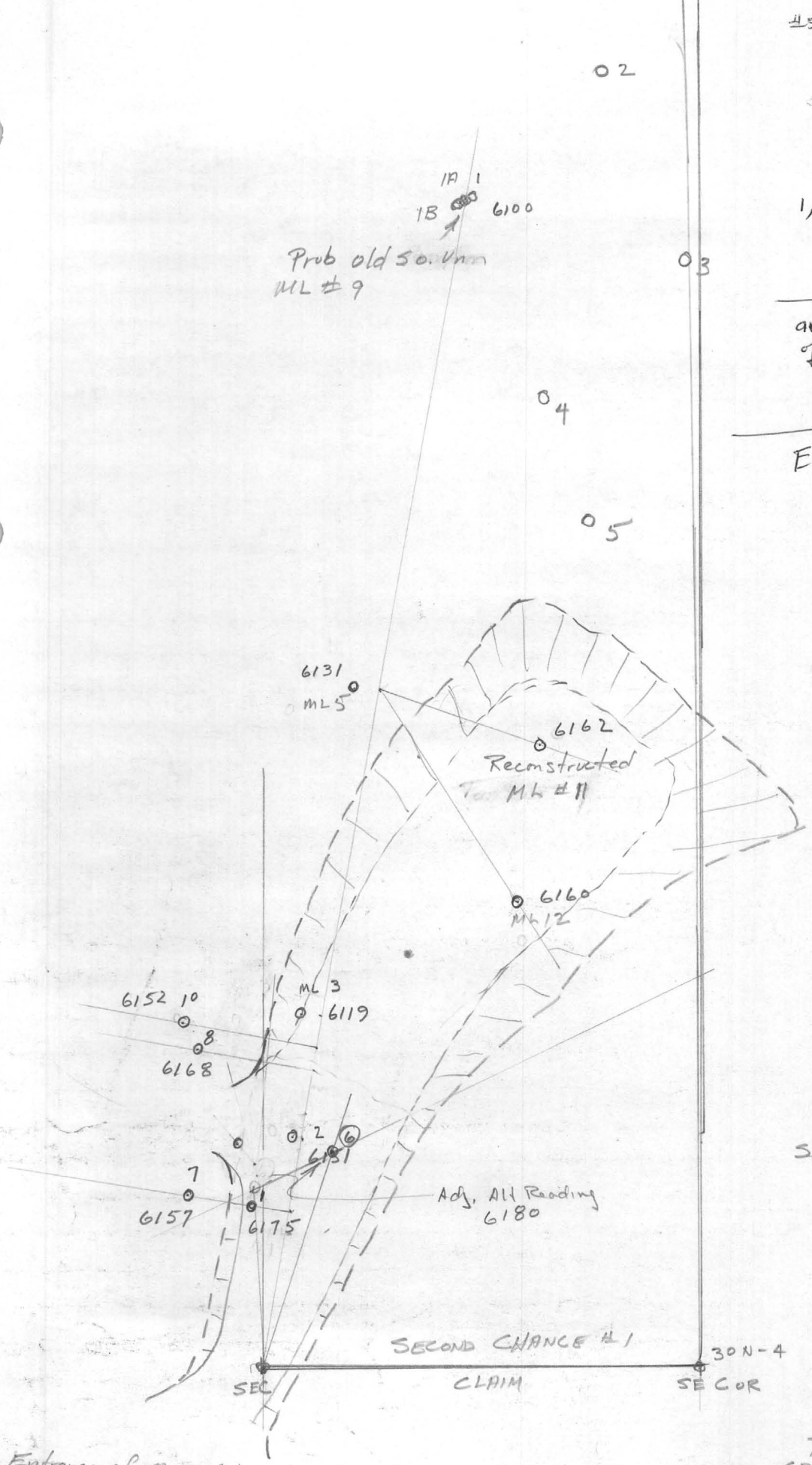
#6 6150 A.L.

at 4:40pm Resot of base of Pit #6 – 6190

Road 6300 @ 1, 1A

El. of 34N-7 6280
adjust – (-)20
6260

Survey El #9
6270



SC # 11 CLAIM

Entrance of Open Cut about same elev as Road across dump – ± 6190 based on Collars of old DH's.

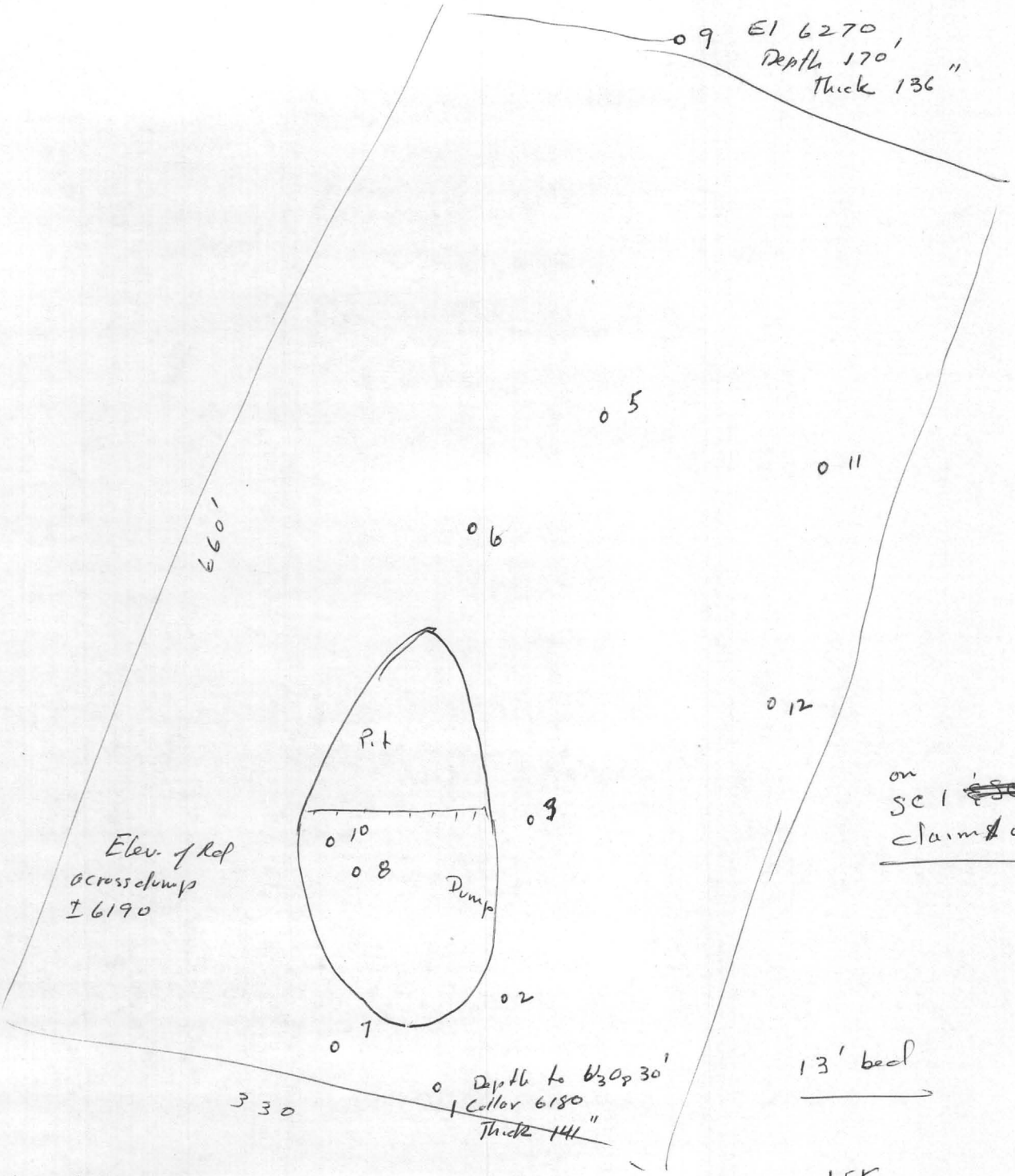
Base from CD Chisolm 1" = 100 Brunton & Pace

Southern Union holes

Near E pit

			Depth Top of ore	Collar	Top ore.
ML-1	128"	.36 U_3O_8	29'	6204	6175
2	70	.27	39'	6190	6151
3	109	.76	60½ ~~60.6~~	6180	6119
5.	257	.51	106'	6237	6131
7.	125	.60	23'	6180	6157
8.	55	.32	28'	6196	6168
9.	136	3.23	169½ (-181)	6270	6100
	38"	.47	200 (-203½)		
10	60	.55	40	6192	6152
11	279"	1.70	59½	6222	6162
12	27"	.59	42½	6202	6160
	124"	.29	58		

EL 7- 6300'
8- 6320
9- 6310



Report Ap 19, 74

P. H. Johnson – Conservative extent on beds 13' Ave Thick.

Area around pit + 75' around #9 hole

152,000 Tons @ 1.06% U_3O_8

JEK

$$\frac{660 \times 330 \times 13}{12.5} = 226{,}500 \text{ Tons}$$

Rough Measurements from a Pan Am map – E-W length of 330', extend downdip from pit area to No 9 on bed –

Call to Bob Smith Dnv. 303-989-1910

Probe operator – Carl Bockman – Westinghouse

will call me for agenda

bring maps – Payson ~~geol~~ evaluation

brief – Mon, Tues, Wed. (Feb 23, 24, 25)

Bill Collins → Copper Manor Fri Nite.

will go with him to Sierra Ancha Saturday Feb 21

Said I would go my Friday night.

Cancelled

Telephone Call from Bob Smith

Thurs Feb 19 1976

Sierra Ancha #0119

Westinghouse

Payson uranium #020

~~and Sierra Ancha Uranium~~

Carl Bochman

Logging Technician
Uranium Operations
Nuclear Fuel Division

Westinghouse Electric Corporation
Power Systems
3900 S. Wadsworth Blvd.
Lakewood, Colo. 80235
~~(303) 825-0441~~

R. B. Smith

Manager, Regional Exploration
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Austin, Texas 78731
(512) 452-0236

Control Mormon Lake Uran.
(Payson - Promontory Butte)

WILLIAM D. FOLTA
PRESIDENT

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900 EMPIRE LIFE BLDG.
DALLAS, TEXAS 75201

Karl Bachman

512
453-2784

in Ph
noon Sunday
Sun afternoon
automobile rental
Curtesy car
S. 24th in Phoenix