

# Gulf Oil Chemicals Company

INDUSTRIAL AND SPECIALTY CHEMICALS DIVISION

JAYHAWK PLANT

G. M. McCormack  
PLANT MANAGER

P. O. Box 6200 B  
Pittsburg, Kansas 66762

June 4, 1982

Attention: Mr. C. L. Cain, Radiation Specialist  
United States Nuclear Regulatory Commission -  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Dear Mr. Cain:

The following is in response to your request dated May 12, 1982. During the 1950's, Spencer Chemical Company possessed a license to process natural uranium and thorium. It is unclear at this time how much, or even if, natural uranium or thorium was processed. It is known that all processing of radioactive material was confined to two buildings - the Advanced Materials plant/building and the pressure vessel test laboratory. The pressure vessel test laboratory, which was primarily a wood structure, was dismantled; the wood was burned; and the ashes buried. The stainless steel floor and partial walls in the Advanced Materials plant/building were removed.

Radiation surveys were conducted at both building sites in August, 1981. In addition, the area, where the ashes were buried, was core drilled and samples analyzed for natural uranium and thorium. Attached are the results of these surveys. It is our judgment that there are no detectable amounts of natural uranium or natural thorium at either building site.

Yours truly,

GULF OIL CHEMICALS COMPANY

G. M. McCormack  
Plant Manager

GMM:as

Attachments

cc: Dr. R. M. Villiger - Overland Park  
L. Max Scott - Harmarville  
C. L. Richards - Houston  
H. E. Runion - Harmarville  
H. T. Miller - Pittsburgh



A DIVISION OF GULF OIL CORPORATION

TWX 910-740-1260 GALENA KANSAS  
TELEPHONE 316 783-1321

*It appears  
that  
Gulf Oil is  
now the  
occupant of  
the Jayhawk  
pl.*

*A/47*

II. Sample Information (continued from page 1)

<u>Sample #</u>	<u>Depth</u>	<u>G. C. Reading</u>	<u>Observation</u>
4-41	4'	.02 Area	Clay only burnt metal at 4' material
4-A	6'	.02 Area	
4-B	8'	.02 hole	
4-C	10'	.02 MTL.	
5-A	4'	.01 area	some unburnt material
5-B	5'	.02 hole	no sign of
5-C	6'	.02 MTL.	at 4 1/2 to 6'
6-A	2.5'	.03 area	burnt mtl. at
6-B	4'	.03 hole	about 2 1/2' to
6-C	6'	.025 MTL.	about 4' then clay
7-41	4'	.03 area	metal at 4' H <sub>2</sub> O at 5.03 G. C. reading clay at 6'
7-A	6'	.03 area	
7-B	8'	.04 hole	
7-C	10'	.04 MTL.	
8-A	4'	.02 area	clay only no sign of material
8-B	5'	.02 hole	
8-C	6'	.02 MTL.	
9-A	2.5'	.02 area	metal at 2.5'
9-B	4'	.02 hole	burnt metal at 4'
9-C	6'	.02 MTL.	clay at 6'
10-A	4'	.03 area	metal at 4' wood
10-B	5'	.03 hole	unburnt burnt
10-C	6.5'	.03 MTL.	at 5' clay at 6.5'
11-A		NO SAMPLE	INTO CLAY
11-B		NO SAMPLE	ONLY
11-C		NO SAMPLE	
12-A	4'	.02 area	clay only
12-B	5'	.02 hole	no sign of
12-C	6'	.02 MTL.	material

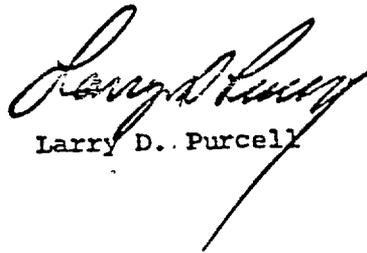
III. Summary

The site appears to have been approximately forty (40) feet wide, two hundred (200) feet long at a depth of six (6) feet a clay bed had been packed in, material was placed and burned. Eighty to ninety percent of the material appeared to have been destroyed by fire and then covered with another foot of clay and rock mixture, then the top soil replaced to one foot of depth. Giger counter readings taken for Beta show only slightly above the ambient readings described earlier. Two holes (#1 and #7) had water standing at a depth of four and one half (4 1/2) to five (5) feet, however, no significant difference was noticed in G.C. readings on the materials or water found. It is felt, subject to analysis by G. S. & T., that no problems exist and all findings were as previously indicated.

L. Max Scott  
Soil Samples  
10-14-51  
page 3

We will be awaiting results of analysis by your group in hopes of alleviating this matter.

If you have any questions or wish additional information please feel free to contact me.



Larry D. Purcell

LDP:sh

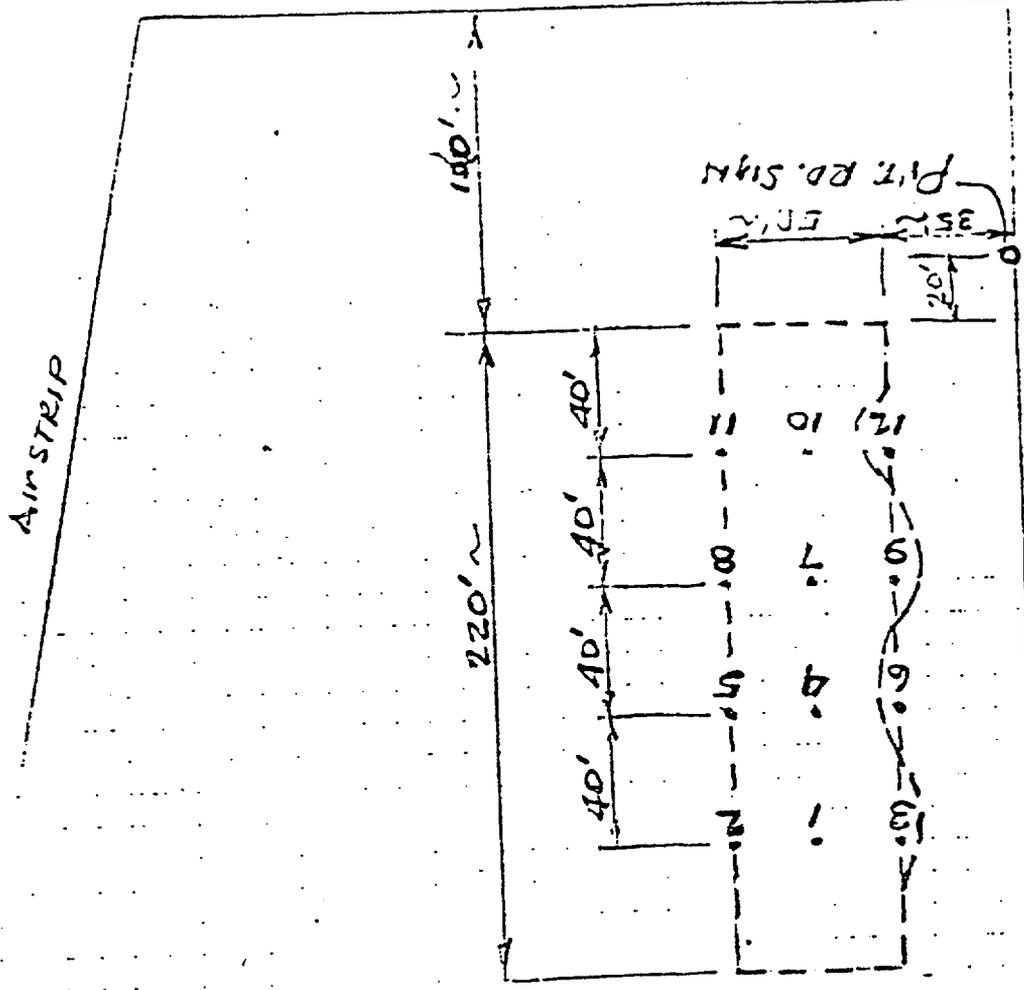
cc: G. M. McCormack  
K. H. Autry  
P. E. Wachter  
G. E. Tolle  
R. J. Jopp  
S. Will

LD Purcell 10/12

FIELD SKAPIC PIT  
DISPOSAL SIGHT RED LNB  
AVC, FUEL 1961



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