

JUL 20 1977

Seismograph Service Corporation
Bryant Division
ATTN: J. D. Hall, Operations
Manager
P.O. Box 1550
Tulsa, OK 74102

License no. 35-05651-01

Gentlemen:

This is to acknowledge your letter of July 1, 1977, regarding
the recovery of a 200 psi casing 137 source which was reported
loose from a well in Midland, Michigan on April 12, 1977.

Thank you for your cooperation.

Sincerely,

James H. Allen, Chief
Fuel Facility and
Materials Safety Branch

cc: Glen Brown, Chief,
EPAGE Branch, LTV

cc v/ltr dtd 7/1/77:
Central Files
✓ Reproduction Unit LRG 200
PDR
NSIC

8506050406 841207
PDR FOIA
KOHNB4-850 PDR

all 3

OFFICE	FILE	FILE				
SUPPLEMENT	LONG	ALLAN				

8/8/84

Interview of Dan Schultz

Dow wells were built in 1950's

consist of I Brine wells

A. Production wells

B. Waste wells

II Chemical wells

A. Waste wells

II Chemical wells

Dispose of chemical wastes thru their chemical well system,

Undocumented

^ Rumors from previous employees that Dow may have been disposing of "RAM" thru their chemical injection well system.

IA. Wells under pressure of 700 psi and pumps natural brine deposits from the subsurface back into the Dow Chemical Plant for Processing

Processing involves removal of Bromine & Magnesium from the natural brine deposits

Transmission pipes are from 6' below ground to actual ground level.

(over)

II B. After processing, all residual liquid is sent
✓ to Dow's onsite brine pit ~~to~~ (lagoon pit #6)
which then discharges ~~to~~ into the various
transmission lines (reInjection system) and empties
back into the natural substrate thru ~~the~~ the
deep well disposal system at from 3500-5200'
below ground.

✓ and Some 8-9 spills/no are reported ^{by Dow} to DNR ~~in~~ from
Dow's 100 wells. A spill means ≥ 5 gal/day.

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Dow Chemical

Wells used to remove natural brine deposits in earth which are pumped via transmission lines into the Dow plant for processing. During processing, extraction of various mtlr are removed, such as calcium chloride, bromine etc. the spent brine is then returned to the substrate via a reinjection system.

Chemical ^{disposal} wells are within the confines of the Dow fence line and were used for chemical disposal. These chemical wells have not been used in about the last 3-5 yrs. Shutdown completed and sealed up in 1983, last used in 1982.

Responses:

3. Flyover to identify Radonuclear waste deposits of thorium up at Kawkaulin mch site. Performed ~~with~~ with DNR and NRC in approx. summer of 1980. → ^{Refer to LARUC Report of 12/8/83 TO Wellman Dynamics Corp} No overflights ~~of~~ over well system.
2. No tracer studies wherein loose ^{RAM} mtlr have been used. Some well logging operations using sealed sources have been performed.
1. No deposits of RAM via well system(s) either intentionally or accidentally.

Drinking

A Water for Midland from Lake Huron. Pumped from White Stone Point located ≈ 50 mi N. of Bay City. For rural areas many people have their own wells.

Ron Galloway - Well Superintendent

Solution Mining Wells:

Used to pump water into the brine laden substrata to help dissolve brine deposits, and then withdraws the dissolved brine back to the Dow plant.

Brine well flow rates: 5000 gal/min ^{Brine} a reinjection system.

Holding Pond Volume: or Lagoon Pit #6

approx 2-3 feet deep and approx 100 acres with a single discharge of 5000 gal/min

Dow's Disposal of RAM are ~~twofold~~ threefold

1.) Incineration

2.) Transfer to Chem Nuclear for Eventual Burial

3.) Short lived mths held for decay.

It is at Ram disposal

8/9/84

Row Gallow - Well Superintendent

Well logging Currently performed by: Not known!

Well logging in 1978/1979 performed by: ~~Not~~
~~known at this time.~~

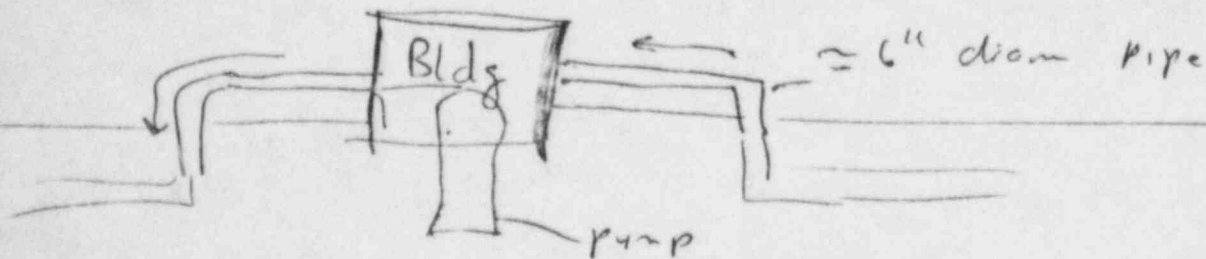
Oct 5, 1978 Schlumberger Well Services
Equip # 5748 out of Mt Pleasant
contact - Mr. Hall of Schlumberger

772-0976 773-4332
open well casing

Send Copy of Report generated to Gordon W. Engdahl.

Index Tour:

Visited well #20 (rejection well) on River Road.



Well #84 is capped and will look like the above with the exception ~~of~~ that it will have no pump. Well #81 was put out of service in late 1978.

(over)

Ron Galloway mentioned that they perform a weekly Aerial fly over of all the piping / pump system and perform a visual surveillance (via helicopter) to see if system is intact. Flow rates into and out of pumping / well stations are continuously monitored.