ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604

Date: april 9, 1985
Time: 1 pm
Weather: sunny 40°F
FIT: Sue Ryan
Dave Vaughan
Site Rep. Jim Baczynski
Bloom Twp Attorney
Norman Adler
VP of North Am. Enterprises

Site: Triem Steel & Processing, Inc.
8410-01 IL-0043

Process & Waste Information

Plant - H_2O discharge from neutralization process: no more
evaporated
sludge disposal → sludge is still in tanks
Still regulated → unless Triem petioned to delist it

1-1-85
Landfill donated to Bloom Twp

Landfill
waste types: sanitary, see permit currently accepting → none
" " application "
major generators -
was waste allowed in special permits accepted unk
asbestos quantity unk
monitoring wells none logs, depth, yr.

US EPA RECORDS CENTER REGION 5
449970

leachate & seepage none ~~observe~~ corrected observed around LF
some seepage noted near tanks.

History

year landfill operations began 1929 city dump
year plant operations began 1947 Triem

owner
- LF - Bloom ~~Tw~~ Township
- Plant - North Am. Enterprises

operator — 4M operates plant
parent company none

4M does fabricating & warehousing
doesn't use waste system

previous ow/op
Triem
until bankruptcy

Aug 83
purchased by NA from receiver

Permits

RCRA Status

covering which areas of the facility — possibly the remaining sludge

Status of neutralization system — concrete retention pond — contains H_2O & probably sludge

Landfill Permit

went on tour of LF

Jim	Attorney
Norm	North Amer. Enter.
Bill	Foreclosure Executor
Hugh	? N.A.E

Physical

size of landfill 45 acres
size of plant —
# of employees —
security — LF not fenced
storm sewer unk
slope 0-2 direction LF 15' higher than grade
well on site yes use plumbing & washing log depth. 120'
water supply bottled for drinking well for other
depth to gw unk direction of flow unk.
flooding unk

pampled for coliform nitrates <10mg/l
↓
drinking → use bottled H_2O
↓
wehling well works drilled well

Distance to Nearest -

- residential area North side across 26th St.
- industry 100 yds
- offsite building 100 yds
- AG land 1/2 mile State & 14th or Joeorr
- surface water ditch use of?
- wells off site none, we are aware of

MEMO

Date:
TO: FILE
FROM: KURT SIMS
SUBJECT: ILLINOIS / R05-8410-01 / IL0043
COOK CO. / TRIEM STEEL & PROCESSING, INC.
ILD001744572

capped in 1977 45 acre LF

Containment - mostly on a terminal moraine of (Tinley Glacier)
No liner
covered by 2' clay & ~~berm~~ clay berm surrounding site to ~15' height.

general
surface formation - Quat.

unconsolidated ice- & water-laid deposits pebbly clay, generally discontinuous & interbedded (Ref 4, P. 4)

specific Ref 1, P. 11-12 (Labue site)

- highly impervious, generally desiccated, very tough to hard consistency clay tills. Max thickness 30' @ higher elevations of site.
- also clay seds. of postglacial Lake Chi.
- Valparaiso clay tills 10'-20' thick
- Immediately above bedrock is a silt loam-gravel-boulder drift - highly preconsolidated noncohesive drift
- Tinley tills are clays & the Valpo tills are silty clay loams
  Permeability tests (Ref. 1, P. 13) 2×10^{-7} cm/sec to 5×10^{-7} cm/sec
- A.O.C. flow direction S.

OWNERS of Landfill are - Bloom Township
425 S. Halsted
Chicago Hts. Il. 60411

bottom of old pit (see TOPOS) < 640' MSL (~~[illegible]~~ 20'-30' pit)

LANDFILL

Triem Steel & Processing, Inc.
26th & State St. Chicago Hts, Il. Cook Co.

R5-8410-01 / IL0043 N 1/2 SW 1/4
T 35N R 14E SEC. 28 ~~NW 1/4~~
26TH St. to N. - STATE ST. to E. - R.R. to W. & S.
Aquifer of concern: Silurian Niagran Dolomite
@ 30'-50'
~~MSL~~ top of ↑ 650' MSL

Average site elevation ~691' MSL

20'-30' clay hole, filled
bottom of fill @ ~666' MSL

Liquid sludge - sulphuric pickle liquor
- benzene & iron & zinc from oily waste (FORD)

Quantity unknown

nearest well in A. of C. 3000 Ft.
↘ S. Chi. Hts. well @ 498' depth
@ 2729 Jackson ave.

Pop. served by ↑ 3,500

Pop. served within 3 mile radius 61,206
↑ by wells in A. of C.

E. Chi. Hts. wells (7) not used for last yr. - standby
↑ on L. Mich.

Deer crk. ~1.25 miles E.

Intro

This memorandum outlines the proposed plan for installation of monitoring wells at Triem Steel & Processing, Inc. in Chicago Heights, Illinois. (Fig. 1)

Monitoring well sampling results will be utilized to calculate a score for the groundwater migration route of the overall Hazardous Ranking System (HRS) score. expand on scoring done vs. confirmed release

The site is located in an old ~~all TR + see loc. + Co.~~ clay pit and accepted waste from 1947 to about 1977. Liquid sludge in the form of sulphuric pickle liquor and oily waste containing benzene, iron and zinc was ~~as~~ ~~pelleted~~ deposited with general refuse.

Containment at the site is documented as a two foot clay layer as a cover. Also a ~~15 foot~~ fifteen foot clay berm surrounds the site. No liner ~~is~~ was installed although

TRIEM

the geology indicates clay layers of till above the bedrock.

In a site adjacent the site an application study has been documented. Included in this study (Ref. 1) is a geologic, hydrologic section. There are several formations of tills overlying the bedrock and no groundwater was encountered until the lowest of these tills at about 10' above bedrock. The bedrock aquifer is the source of drinking water in the area and all the municipal wells locally draw from this aquifer.

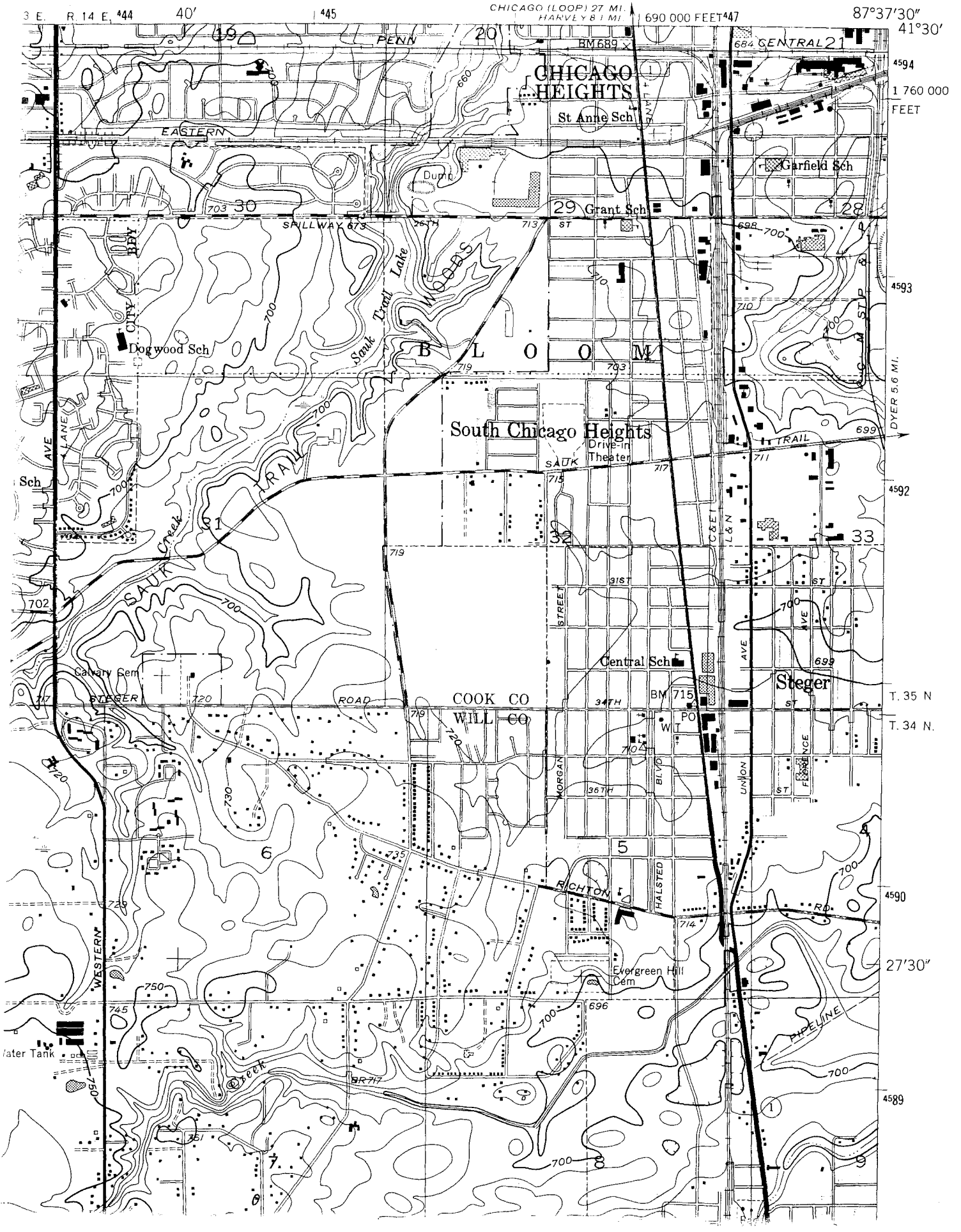
redundant

rewrite

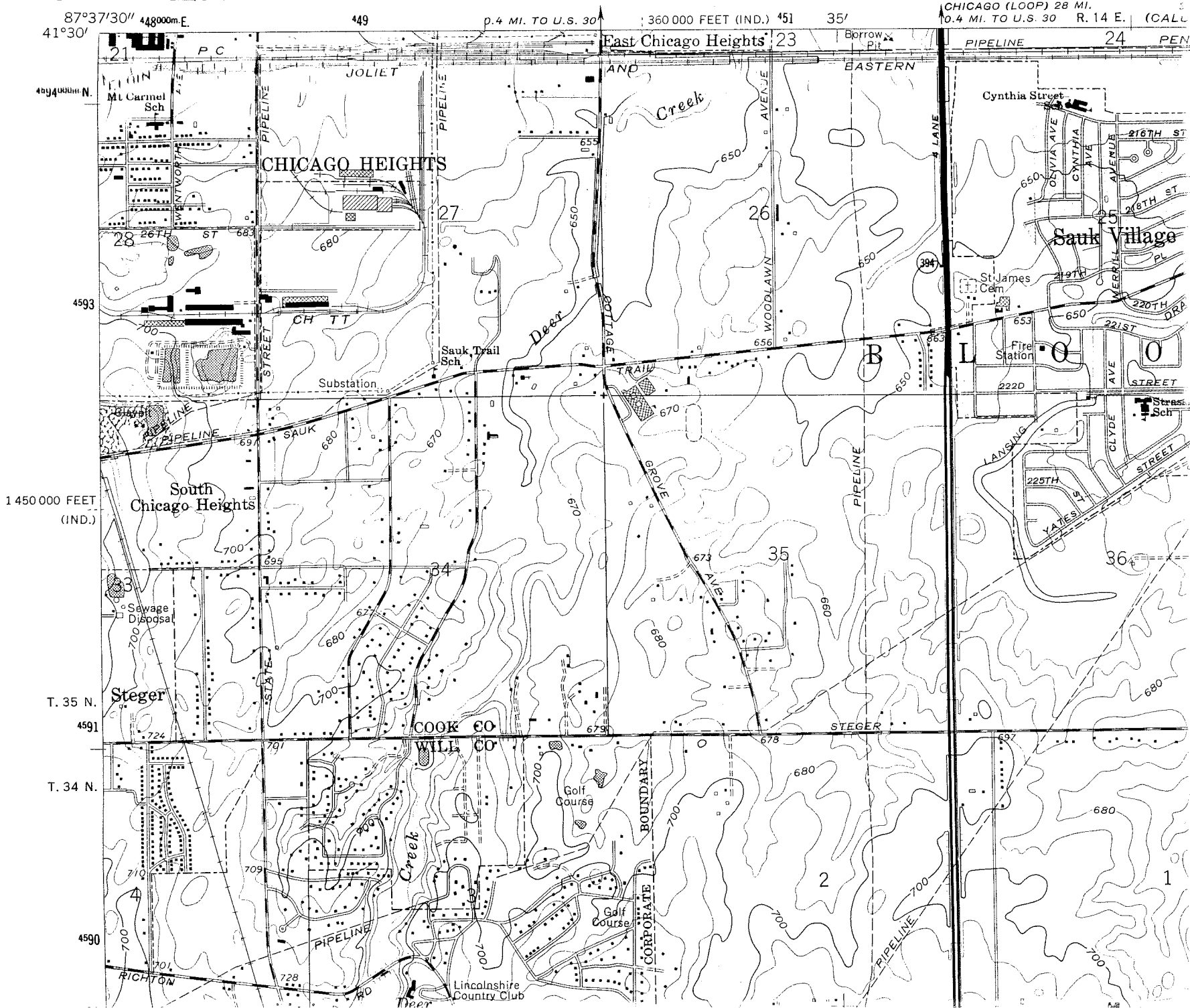
NEED TO SEE SITE (Photo also)

STEGER QUADRANGLE
ILLINOIS
7.5 MINUTE SERIES (TOPOGRAPHIC)

3467 II SE (CALUMET CITY)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Ref. 1980 Illinois Census of Population

IL-0043-21
RS-8410-01

Triem Steel & Processing, Inc.
RS-8410-01 IL-0043

Three Mile Radius Population

Chicago Heights		37,026 *
E. Chicago Heights		5347
Steger		9269
Sauk Village		10906
S. Chicago Heights		3932
Park Forest	25% of 26,222	6555
		73,035

÷ by 28.27 = 2583 persons/sq mi

assume even population distribution throughout radius

Three Mile - 73,035

Two Mile - 32,474 ÷ by 3.8 = 8545.9 = buildings
(2583×12.57)

One Mile - 8,116
(2583×π)

* Municipal Water supply is from Lake Michigan. All other towns use well water.

Population on groundwater in 3 mile radius (include all of Park Forest water is blended)
55,676

HRS Submitted to EPA
on Potential.
~~see Jerry O. for details.~~

If observed release
is found, score will
~~not~~ above 28.5.

Potential Drilling Candidate

4/21/80

DAVE —

TRIEM STEEL &
PROCESSING SCORED
A 27.81 WITH NO
OBSERVED RELEASE TO GW.
IT HAS BEEN SUBMITTED
AS SUCH WITH A NOTE
TO JEANNE GRIFFIN THAT
IT WILL BE PUT ON THE
POTENTIAL DRILLING SITES
LIST FOR NEXT YEAR PER
JERRY O. WILL YOU TAKE CARE OF
THIS? — CYNDI