NOTICE OF INTENT TO DRILL

Must be approved by KCC five (5) days prior to commencing well

For KCC Use:
Effective Date: 10-13-04
District #
SGA? Yes No

Expected Spud Date: October 13, 2004

OPERATOR: Licensee: (State of Kansas agency) 0100
Name: Kansas Geological Survey
Address: 1930 Constant Avenue
City/State/Zip: Lawrence, KS 66047
Contact Person: K. David Newell/Tim Carr
Phone: (785) 864-3965

CONTRACTOR: Licensee: (as above) 0100
Name: Kansas Geological Survey

Well Drilled For:

- Oil
- Gas
- Storage
- OWO
- Seismic
- Other

Well Class:

- Enh Rec
- Infield
- Pool Ext.
- Disposal
- Wildcat
- Other

Type Equipment:

- Mud Rotary
- Air Rotary
- Cable

Spot

- NW
- SW
- NE
- Sec.
- Twp.
- S.
- R.
- 23

1650

- 2310 feet from

- N / S Line of Section

Is SECTION

- Regular
- Irregular

(No Note: Locate well on the Section Plat on reverse side)

County: Johnson
Lease Name: Deffenbaugh Quarry
Field Name: Olathe NE
Is this a Prorated / Spaced Field? Yes No

Target Formation(s): Top Mississippian
Nearest Lease or unit boundary: approx. 3000'
Ground Surface Elevation: 1020'
Water well within one-quarter mile: Yes No
Public water supply well within one mile: Yes No
Depth to bottom of fresh water: 120
Depth to bottom of usable water: 350
Surface Pipe by Alternate: 1 2
Length of Surface Pipe Planned to be set: 20'
Length of Conductor Pipe required: None
Projected Total Depth: 950'
Formation at Total Depth: Mississippian Limestone
Water Source for Drilling Operations:
- Well
- Farm Pond
- Other

DWR Permit:

(No Note: Apply for Permit with DWR)
Will Cores be taken? Yes No

If Yes, proposed zone: surface to top Mississippian

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55 et. seq.

It is agreed that the following minimum requirements will be met:

1. Notify the appropriate district office prior to spudding of well;
2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
3. The minimum amount of surface pipe as specified below shall be set by circulating cement to the top; in all cases surface pipe shall be set through all unconsolidated materials plus a minimum of 20 feet into the underlying formation;
4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary prior to plugging;
5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
6. If an ALTERNATE II COMPLETION, production pipe shall be cemented from below any usable water to surface within 120 days of spud date. Or pursuant to Appendix "B" - Eastern Kansas surface casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing must be completed within 30 days of the spud date or the well shall be plugged. In all cases, NOTIFY district office prior to any cementing.

I hereby certify that the statements made herein are true and to the best of my knowledge and belief.

Date: October 6, 2004
Signature of Operator or Agent: Title: Assistant Scientist, KS Geol. Survey

Remember to:
- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACC-1 within 120 days of spud date;
- File acreage attribution plat according to field prerogation orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed;
- Obtain written approval before disposing or injecting salt water.
- If this permit has expired (See: authorized expiration date) please check the box below and return to the address below.

Well Not Drilled - Permit Expired
Signature of Operator or Agent: Date:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202
IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

Plat of acreage attributable to a well in a prorated or spaced field

If the intended well is in a prorated or spaced field, please fully complete this side of the form. If the intended well is in a prorated or spaced field complete the plat below showing that the well will be properly located in relationship to other wells producing from the common source of supply. Please show all the wells and within 1 mile of the boundaries of the proposed acreage attribution unit for gas wells and within 1/2 mile of the boundaries of the proposed acreage attribution unit for oil wells.

API No. 15: ____________________________
Operator: Kansas Geological Survey
Lease: #2 Deffenbaugh Quarry
Well Number: ____________________________
Field: None

Number of Acres attributable to well: 320
QTR / QTR / QTR of acreage: NW , SW , NE

Location of Well: County: Johnson
1650 feet from X N / S Line of Section
2310 feet from X E / W Line of Section
Sec. 1 Twp. 12 S. R. 23 X East □ West

Is Section: □ Regular or X Irregular
If Section is Irregular, locate well from nearest corner boundary.
Section corner used: □ NE □ NW □ SE □ SW

PLAT
(Show location of the well and shade attributable acreage for prorated or spaced wells.)
(Show footage to the nearest lease or unit boundary line.)

RECEIVED
OCT 08 2004
KCC WICHITA

EXAMPLE

NOTE: In all cases locate the spot of the proposed drilling location.

In plotting the proposed location of the well, you must show:
1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the section's south / north and east / west.
3. The distance to the nearest lease or unit boundary line.
4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (CG-7 for oil wells; CG-8 for gas wells).