

FOR KCC USE:

EFFECTIVE DATE: 7-19-98
DISTRICT # 7
SGA? Yes No

CORRECTED
State of Kansas

2ND CORRECTION

15-095-20708010

FORM C-1 7/91
FORM MUST BE TYPED
FORM MUST BE SIGNED
ALL BLANKS MUST BE FILLED

NOTICE OF INTENTION TO DRILL

Must be approved by the K.C.C. five (5) days prior to commencing well.

Expected Spud Date Pending Approval
month day year

Spot SURFACE LOCATION, APPROX.
NW - NW - NW Sec 31 Twp 27 S, Rg 10 East
X West

OPERATOR: License # 32199
Name: Northern Natural Gas
Address: P.O. Box 178
City/State/Zip: Cunningham, KS 67035
Contact Person: Dan Dobbins
Phone: 316.298-6117

* 344 feet from South (North) line of Section
* 282 feet from East (West) line of Section
IS SECTION X REGULAR IRREGULAR?

(NOTE: Locate well on the Section Plat on Reverse Side)

County: Kingman

Lease Name: Steffen Well #: 31-11

Field Name: Cunningham

Is this a Prorated/Spaced Field? yes X no

* Target Formation(s): Viola

Nearest lease or unit boundary: 282 WAS: 245

Ground Surface Elevation: 1681 feet MSL

Water well within one-quarter mile: X yes no

Public water supply well within one mile: yes X no

Depth to bottom of fresh water: 120 ft

Depth to bottom of usable water: 200 ft

Surface Pipe by Alternate: X 1 2

Length of Surface Pipe Planned to be set: 1426

Length of Conductor pipe required: 89

Projected Total Depth: 4106

Formation at Total Depth: Viola

Water Source for Drilling Operations:

X well farm pond other

CONTRACTOR: License #: 5893
Name: Pratt Well Service

Well Drilled For: Well Class: Type Equipment:

Oil Enh Rec X Infield Mud Rotary
Gas X Storage Pool Ext. Air Rotary
X OWWO Disposal Wildcat Cable
Seismic; # of Holes Other

If OWWO: old well information as follows:
Operator: Northern Natural Gas
Well Name: Steffen 31-11
Comp. Date: 4-27-78 Old Total Depth: 4106

Directional, Deviated or Horizontal wellbore? X yes no
If yes, true vertical depth: 4067 at end of lateral
Bottom Hole Location: 200 FWL 1350 FSL
Sec. 30-T27S-R10W

Will Cores Be Taken? yes X no

If yes, proposed zone:

* WAS: 245' FNL 250' FNL
15: 344' FNL 282' FNL

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.

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

BUCKET No. 195,110-C (C-28,359)

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. 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: 11/18/98 Signature of Operator or Agent: Dan Dobbins Title: Sr. Reservoir Analyst

FOR KCC USE:
 API # 15- 095-20708010
 Conductor pipe required NONE feet
 Minimum surface pipe required 1426 feet per Alt. (X)
 Approved by: COR 17-2-98 JR / DRIG 7-14-98 JR
 This authorization expires: 1-14-99
 (This authorization void if drilling not started within 6 months of effective date.)
 Spud date: Agent:

NOV 20 1998
11-20-98
CONSERVATION DIVISION
Wichita, Kansas
STATE CORPORATION COMMISSION

31
27
18W1

REMEMBER TO:

- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration 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.

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 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 _____
 LEASE _____
 WELL NUMBER _____
 FIELD _____

LOCATION OF WELL: COUNTY _____
 _____ feet from south/north line of section
 _____ feet from east/west line of section
 SECTION _____ TWP _____ RG _____

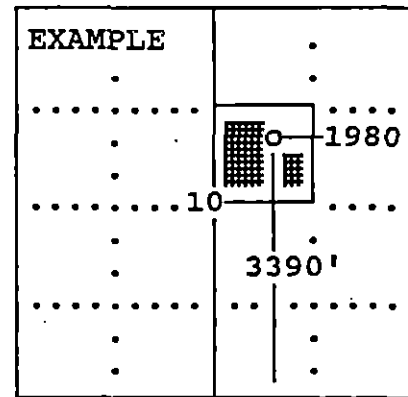
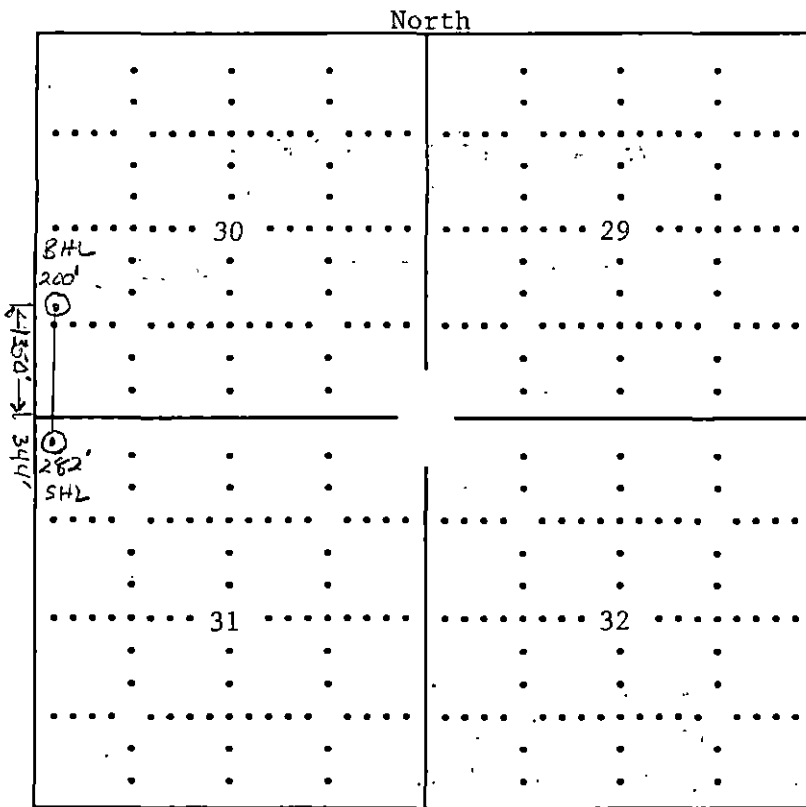
NUMBER OF ACRES ATTRIBUTABLE TO WELL _____
 QTR/QTR/QTR OF ACREAGE _____

IS SECTION _____ REGULAR or _____ 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.)



SEWARD CO.

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; and
- 3) the distance to the nearest lease or unit boundary line.