

SAST

FOR KCC USE:

FORM CB-1 12/93

FORM MUST BE TYPED

FORM MUST BE SIGNED

ALL BLANKS MUST BE FILLED IN

EFFECTIVE DATE: 4-30-05

State of Kansas  
CATHODIC PROTECTION BOREHOLE INTENT

Must be approved by the K.C.C. sixty (60) days prior to commencing well.

DISTRICT # 1  
SGA? Yes  No

Expected Spud (Starting) Date 5-16-05  
month day year

OPERATOR: License # 32119

Name: Northern Natural Gas Co.  
Address: 1111 South 103rd St  
City/State/Zip: Omaha, NE 68013

Contact Person: Duane Moody

Phone: 402-398-7843

CONTRACTOR: License #: 32775

Name: McLeans CP Installation, Inc.

Type Drilling Equipment:  Mud Rotary  Cable  
 Air Rotary  Other

CONSTRUCTION FEATURES

Length of Cathodic Surface (Non-Metallic) Casing  
Planned to be set: 20' ft.

Length of Conductor pipe (if any?): 17 1/2" - 20' 10" - 155' ft.

Size of the borehole (I.D.): 17 1/2" - 20' 10" - 155' inches

Cathodic surface casing size: 20' inches

Cathodic surface casing centralizers set at depths of: 20'

Cathodic surface casing will terminate at:  Above surface  Surface Vault  Below Surface Vault

Pitless casing adaptor will be used: Yes  No  at Depth 20' ft.

Anode installation depths are: 163; 153; 143; 133; 123; 113; 103; 93; 83; 73; 63; 53

**\* MAX TD = 175' MUST BE 20' ABOVE TOP OF GROUNDWATER**

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:

1. Notify the appropriate district office prior to spudding of and again before plugging well;
2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
3. The minimum amount of cathodic surface casing as specified below shall be set by grouting to the top.
4. An agreement between the operator and the district office on plugs and placement is necessary prior to plugging;
5. The appropriate district office will be notified before well is either plugged or casing is grouted in;
6. 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: 4-20-05 Signature of Operator or Agent: [Signature] Title: Office

FOR KCC USE: 175-219830000 A14-3  
 API # 15- 175-219830000  
 Conductor pipe required NONE feet  
 Minimum cathodic surface casing required 20 feet  
 Approved by: RSP 4-25-05  
 This authorization expires: 10-25-05  
 (This authorization void if drilling not started within 6 months of effective date.)  
 Spud date: \_\_\_\_\_ Agent: \_\_\_\_\_

**TOTAL DEPTH MUST BE RAISED. (MADE SHALLOWER) IF GROUND-WATER IS ENCOUNTERED**

- REMEMBER TO:
- File Drill Pit Application (form CDP-1) with Intent to Install;
  - File Completion Form CB-2 within 30 days of spud date;
  - Notify appropriate district office 48 hours prior to workover or re-entry;
  - Submit plugging report (CB-4) within 30 days after plugging is completed.

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202-1286.

Spot (Location) q/q/a East  
SE - SE - SE Sec 27 Twp 31S S, Rg 32W X West  
..... 421' feet from South North line of Section  
..... 60' feet from East West line of Section  
(Circle directions from nearest outside corner boundaries)  
IS SECTION \_\_\_\_\_ REGULAR \_\_\_\_\_ IRREGULAR?  
(Spot well on the Section Plat on Reverse Side)  
County: Seward

Lease Name: Valve Well #: 2

Facility Name: Valve Well #2  
Ground Surface Elevation: \_\_\_\_\_ MSL.  
Cathodic Borehole Total Depth 175' ft.  
Depth to Bedrock \_\_\_\_\_ ft.

WATER INFORMATION:

Aquifer Penetration:  None  Single  Multiple  
Depth to bottom of fresh water: 580 / 220' up  
Depth to bottom of usable water: 600  
Water well within one-quarter mile: yes  no   
Public water supply well within one mile: yes  no   
Water Source for Drilling Operations:  
..... well  farm pond  stream  other

Water Well Location: \_\_\_\_\_

DWR Permit #: \_\_\_\_\_

Standard Dimension Ratio (SDR) is = 26  
(cathodic surface OD csg. in inches / MWI in inches = SDR)

Annular space between borehole and casing will be grouted with: \_\_\_\_\_ Concrete \_\_\_\_\_ Bentonite Cement  
 Neat cement \_\_\_\_\_ Bentonite clay

Anode vent pipe will be set at: 3 ft. above surface

Anode conductor (backfill) material TYPE: SG2

Depth to BASE of Backfill installation material: 175'

Depth to TOP of Backfill installation material: 25'

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APR 27 2005

CONSERVATION DIVISION  
WICHITA KS

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

Show the relationship to other wells or facilities proposed to be serviced by the intended cathodic borehole. Please show all the wells, existing cathodic boreholes, pipelines or facilities within 1/2 mile of the proposed borehole.

API NO. 15- \_\_\_\_\_  
 OPERATOR Northern Natural Gas LOCATION OF WELL: COUNTY Seward  
 LEASE Valve 421' feet from south/north line of section  
 WELL NUMBER #2 60' feet from east/west line of section  
 FACILITY NAME Valve Well #2 SECTION 27 TWP 31S RG 32W

SPOT: QTR/QTR/QTR/QTR OF ACREAGE \_\_\_\_\_  
 \_\_\_\_\_ SE - SE - SE  
 IS SECTION X REGULAR or \_\_\_\_\_ IRREGULAR  
 IF SECTION IS IRREGULAR, LOCATE WELL FROM NEAREST  
CORNER BOUNDARY.  
 Section corner used: \_\_\_\_\_ NE \_\_\_\_\_ NW \_\_\_\_\_ SE \_\_\_\_\_ SW

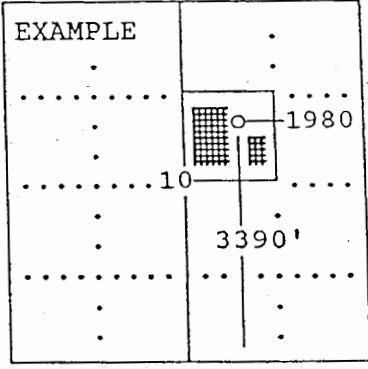
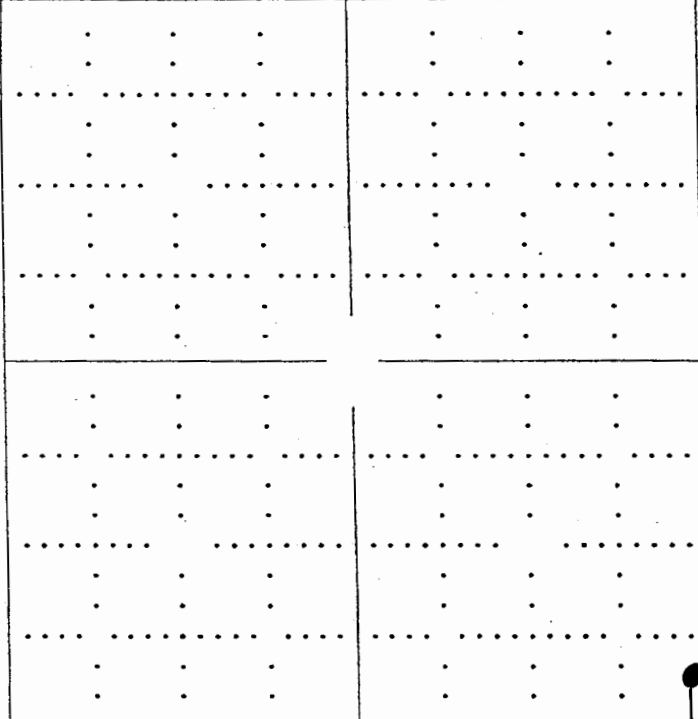
PLAT

(Show location of intended cathodic borehole.)

(Show footage from nearest lease, unit or outside section boundary line.)

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 APR 22 2005  
 CONSERVATION DIVISION  
 WICHITA, KS

Section 27



60  
151

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, unit or outside section boundary line.