

Corrected

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KCC WICHITA

Mon.

FOR KCC USE:

FORM CB-1 12/93

FORM MUST BE TYPED

EFFECTIVE DATE: 5-2-05

State of Kansas

FORM MUST BE SIGNED

DISTRICT #1

CATHODIC PROTECTION BOREHOLE INTENT

ALL BLANKS MUST BE FILLED IN

SGA? Yes No

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

Expected Spud (Starting) Date 5-16-05

Spot (Location) 0/0/0

OPERATOR: License # 32119

SE - SE - NE Sec 20 Twp 31S S Rg 31W East

Name: Northern Natural Gas Co.

Address: 1111 South 103rd St

City/State/Zip: Omaha, NE 68013

2245' feet from South (North) line of Section

80' 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)

Contact Person: Duane Moody

County: Seward

Phone: 402-398-7843

Lease Name: Jacobs Well #: 1

Facility Name: Jacobs Well #1

CONTRACTOR: License #: 32775

Ground Surface Elevation: 2809 MSL

Cathodic Borehole Total Depth: 160' ft

Depth to Bedrock: 600' ft

Name: McLeans CP Installation, Inc.

WATER INFORMATION:

Type Drilling Equipment: X Mud Rotary Cable Air Rotary Other

Aquifer Penetration: X None Single Multiple

Depth to bottom of fresh water: SWL 180' 160'

Depth to bottom of usable water: 600'

Water well within one-quarter mile: X yes no

Public water supply well within one mile: yes X no

Water Source for Drilling Operations: well farm pond stream X other

CONSTRUCTION FEATURES
Length of Cathodic Surface (Non-Metallic) Casing
Planned to be set: 20' ft.
Length of Conductor pipe (if any?): NONE ft.
17 1/2" - 20" 10" - 140"
Size of the borehole (I.D.): inches
Cathodic surface casing size: 10" inches
Cathodic surface casing centralizers set at depths of: 20;

Water Well Location:

DWR Permit #:

Standard Dimension Ratio (SDR) is = 26

(cathodic surface OD csg. in inches / MWI in inches = SDR)

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

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

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

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

Anode installation depths are: .148; .139; .130; .121;

Anode conductor (backfill) material TYPE: SC2

.112; .103; .94.; .85.; .76.; .67.; .58.; .49.; .40.;

Depth to BASE of Backfill installation material: 160'

Depth to TOP of Backfill installation material: 30'

Note: Non-Aquifer Completion. Max Total Depth = 160
Total depth of boring must be a minimum of 20' above the top of groundwater. AFFIDAVIT
Boring total depth must be reduced if groundwater is encountered.

MAX TD = 160

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: [Signature]

\*WAS: 2038' FNL
IS: 2245' FNL
\*WAS NESESENE
IS: SESE NE

FOR KCC USE:
API # 15-175-21984-0000/ 4LT.3
Conductor pipe required NONE feet
Minimum cathodic surface casing required 20 feet
Approved by: KJP 4-21-05 12:29:27.05
This authorization expires: 10-27-05
(This authorization void if drilling not started within 6 months of effective date.)
Spud date: Agent:

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APR 22 2005
CONSERVATION DIVISION
WICHITA, KS

- REMEMBER TO:
- File Drill Pit Application (form COP-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 207B, Wichita, Kansas 67202-1286.

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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 Natrual Gas LOCATION OF WELL: COUNTY Seward  
LEASE Jacobs 2245' feet from south/north line of section  
WELL NUMBER #1 80' feet from east/west line of section  
FACILITY NAME Jacobs Well #1 SECTION 20 TWP 31S RG 31W

SPOT: QTR/QTR/QTR/QTR OF ACREAGE  
SE - SE - NE

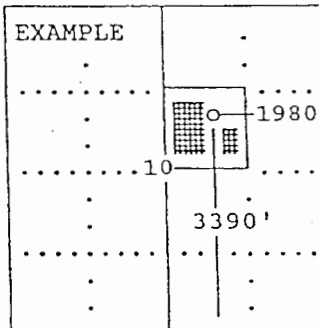
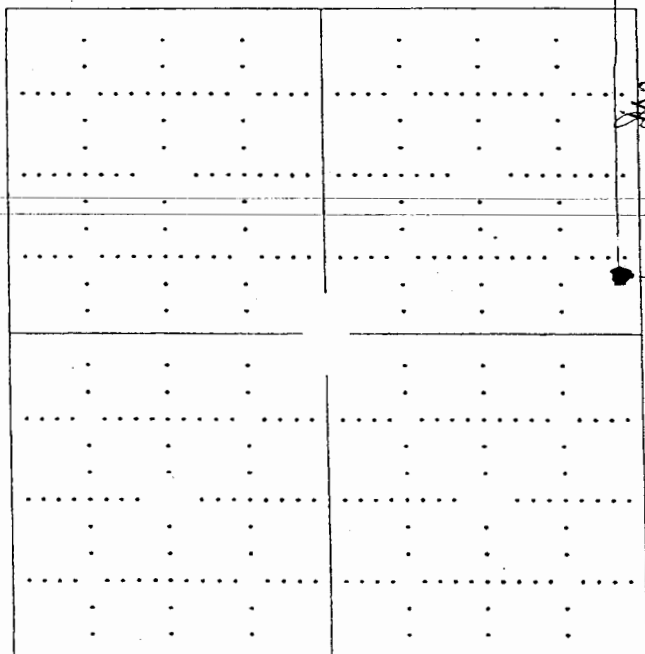
IS SECTION X REGULAR or \_\_\_\_\_ IRREGULAR  
IF SECTION IS IRREGULAR, LOCATE WELL FROM NEAREST  
CORNER BOUNDARY.

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.)



SEWARD CO.

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WICHITA, KS

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.