

FOR KCC USE:

FORM CB-1 12/93

FORM MUST BE TYPED

EFFECTIVE DATE: 7-18-07

State of Kansas

FORM MUST BE SIGNED

DISTRICT # 2

CATHODIC PROTECTION BOREHOLE INTENT

ALL BLANKS MUST BE FILLED IN

SGA? V. Yes...No

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

Expected Spud (Starting) Date August 14, 2007

Spot (Location) Q/Q
NE SE SE Sec 12 Twp 15S S, Rg 8W East
1063 feet from South North line of Section
60 feet from East West line of Section
(Circle directions from nearest outside corner boundarys)

OPERATOR: License # 32119

IS SECTION X REGULAR IRREGULAR?
(Spot well on the Section Plat on Reverse Side)
County: Ellsworth

Name: Northern Natural Gas

Address: 2930 Gas City Rd

City/State/Zip: Clifton, KS 66937

Contact Person: Mike Kantak

Lease Name: 640A Well #: 1

Phone: 785-632-7071

Facility Name: 640A - Clifton

CONTRACTOR: License #: 473

Ground Surface Elevation: 1650 MSL.

Cathodic Borehole Total Depth: 200 ft.

Depth to Bedrock: 20± 95 ft.

Name: Tyler Water Well, Inc.

WATER INFORMATION:

Type Drilling Equipment: X Mud Rotary Cable

 Air Rotary Other

Aquifer Penetration: None X Single Multiple

Depth to bottom of fresh water: 12-200

Depth to bottom of usable water: 12-200

Water well within one-quarter mile: yes X no

Public water supply well within one mile: yes X no

Water Source for Drilling Operations:

X well farm pond stream other

Water Well Location: Public water from

nearest town

DWR Permit #: N/A

Standard Dimension Ratio (SDR) is = 21

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

CONSTRUCTION FEATURES

Length of Cathodic Surface (Non-Metallic) Casing

Planned to be set: 20 ft.

Length of Conductor pipe (if any?): NONE ft.

* Surface casing borehole must be 16" or more

Size of the borehole (I.D.): 9.75 inches

Cathodic surface casing size: 10.0 inches

Cathodic surface casing centralizers set at depths of: 20;

 ; ; ; ; ; ; ; ; ; ;

Cathodic surface casing will terminate at:

X Above surface Surface Vault Below Surface Vault

Pitless casing adaptor will be used: Yes at Depth 60 ft.

Anode installation depths are: 60; 70; 80; 90;

100; 110; 120; 130; 140; 150; 160; 170; 180;

190; 200

Annular space between borehole and casing will be grouted

with: Concrete Bentonite Cement

X Neat cement Bentonite clay

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

Anode conductor (backfill) material TYPE: Loresco SC-2

Depth to BASE of Backfill installation material: 200'

Depth to TOP of Backfill installation material: 40

* Max TO = 200'

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: 7-9-07 Signature of Operator or Agent: Jason Hubler Title: V.P. Operations

Energy Economics Agent,
as consultant for
Northern Natural Gas

FOR KCC USE:
 API # 15- 053-21208-000
 Conductor pipe required None feet
 Minimum cathodic surface casing required 20 feet Alt 3
 Approved by: Auth 7-13-07
 This authorization expires: 1-13-08
 (This authorization void if drilling not started within
 6 months of effective date.)
 Spud date: _____ Agent: _____

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.

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 10 2007

CONSERVATION DIVISION
WICHITA, KS

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

12-15-8W

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- 053-21208-0000
 OPERATOR Northern Natural Gas
 LEASE 640A
 WELL NUMBER 1
 FACILITY NAME 640A - Clifton

LOCATION OF WELL: COUNTY Ellsworth
1063 feet from south/north line of section
60 feet from east/west line of section
 SECTION 12 TWP 15S RG 8W

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

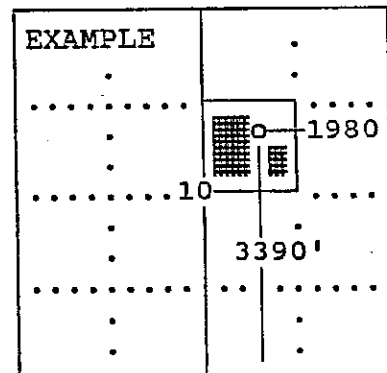
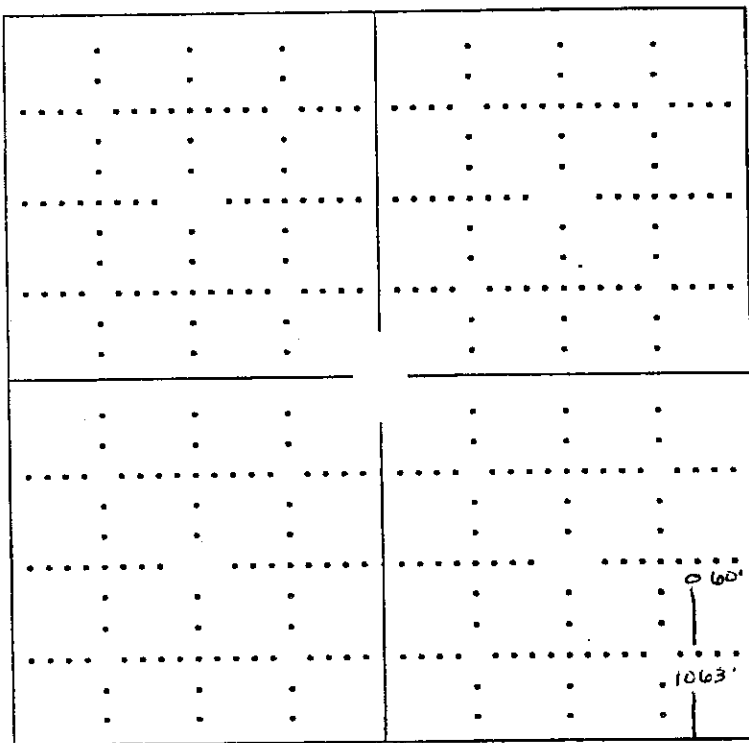
IS SECTION X REGULAR or IRREGULAR
IF SECTION IS IRREGULAR, LOCATE WELL FROM NEAREST CORNER BOUNDARY.

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.)



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, unit or outside section boundary line.

RECEIVED
 KANSAS CORPORATION COMMISSION

JUL 10 2007

CONSERVATION DIVISION
 WICHITA, KS

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
APPLICATION FOR SURFACE PIT**

Form CDP-1
April 2004
Form must be Typed

Submit in Duplicate

Operator Name: <u>Northern Natural Gas</u>		License Number: <u>32119</u>
Operator Address: <u>2930 Gas City Rd Clifton, KS 66937</u>		
Contact Person: <u>Mike Kantak</u>		Phone Number: (<u>785</u>) <u>632</u> - <u>7071</u>
Lease Name & Well No.: <u>640A - #1</u>		Pit Location (QQQQ): <u>NW</u> - <u>NE</u> - <u>SE</u> - <u>SE</u> Sec. <u>12</u> Twp. <u>15S</u> R. <u>8</u> <input type="checkbox"/> East <input checked="" type="checkbox"/> West <u>1063</u> Feet from <input type="checkbox"/> North / <input checked="" type="checkbox"/> South Line of Section <u>60</u> Feet from <input checked="" type="checkbox"/> East / <input type="checkbox"/> West Line of Section <u>Ellsworth</u> County
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input checked="" type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <small>(If WP Supply API No. or Year Drilled)</small>	Pit is: <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
Is the pit located in a Sensitive Ground Water Area? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chloride concentration: <u>NONE</u> mg/l <small>(For Emergency Pits and Settling Pits only)</small>
Is the bottom below ground level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Artificial Liner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	How is the pit lined if a plastic liner is not used? <u>Natural soils</u>
Pit dimensions (all but working pits): <u>30</u> Length (feet) <u>4</u> Width (feet) <u>N/A</u> : Steel Pits Depth from ground level to deepest point: <u>8</u> (feet)		
If the pit is lined give a brief description of the liner material, thickness and installation procedure.		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.
Distance to nearest water well within one-mile of pit <u>1,000</u> feet Depth of water well <u>154</u> feet		Depth to shallowest fresh water <u>105</u> feet. Source of information: _____ measured _____ well owner _____ electric log <input checked="" type="checkbox"/> KDWR
Emergency, Settling and Burn Pits ONLY: Producing Formation: <u>Does not apply</u> Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		Drilling, Workover and Haul-Off Pits ONLY: Type of material utilized in drilling/workover: <u>Bentonite only</u> Number of working pits to be utilized: <u>1</u> Abandonment procedure: <u>Backfill</u> _____ Drill pits must be closed within 365 days of spud date.
I hereby certify that the above statements are true and correct to the best of my knowledge and belief. Energy Economics Agent, as consultant for Northern Natural Gas. <u>7-9-07</u> Date <u>[Signature]</u> Signature of Applicant or Agent		RECEIVED KANSAS CORPORATION COMMISSION JUL 10 2007
KCC OFFICE USE ONLY		
Date Received: <u>7/10/07</u> Permit Number: _____	Permit Date: <u>7/10/07</u> Lease Inspection: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS

15-053-2100P0000