

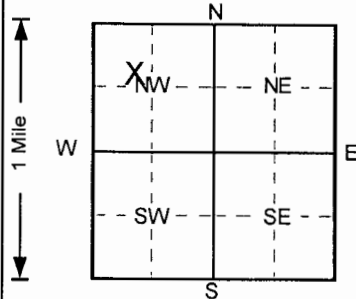
1 LOCATION OF WATER WELL: County: **Seward** Fraction: **SE 1/4 NW 1/4 NW 1/4** Section Number: **1** Township Number: **T 32 S** Range Number: **R 33 E/W**

Distance and direction from nearest town or city street address of well if located within city?

Approx. 2 mi. N of Hwys 83 & 160, Seward Co.

2 WATER WELL OWNER: **NORTHERN NATURAL GAS**
 RR#, St. Address, Box # : **451 S. COUNTRY ESTATES**
 City, State, ZIP Code : **LIBERAL, KS 67901**
 Board of Agriculture, Division of Water Resources
 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: **104** ft ELEVATION: **0**
 Depth(s) Groundwater Encountered 1. _____ ft. 2. _____ ft. 3. _____ ft.
 WELL'S STATIC WATER LEVEL: **Dry** ft. below land surface measured on mo/day/yr
 Pump test data: Well water was **NA** ft. after _____ hours pumping _____ gpm
 Est. Yield **NA** gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 Bore Hole Diameter **8** in. to **122** ft., and _____ in. to _____ ft.
 WELL WATER TO BE USED AS:
 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering **12 Other (Specify below)**
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well **Soil vapor extractio**
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes _____ No

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 7 Fiberglass Threaded
 Blank casing diameter **2** in. to **84** ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface **36** in., weight _____ lbs./ft. Wall thickness or gauge No. **Sch. 40**
 TYPE OF SCREEN OR PERFORATION MATERIAL
 1 Steel 3 Stainless steel 5 Fiberglass **7 PVC** 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 8 RMP (SR) 11 Other (specify) _____
 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot **3 Mill slot** 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify) _____
 SCREEN-PERFORATED INTERVALS: From **84** ft. to **104** ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From **82** ft. to **105** ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout **3 Bentonite** **4 Other Soil**
 Grout Intervals: From **0** ft. to **1** ft., From **1** ft. to **82** ft., From **105** ft. to **122** ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage **16 Other (specify below)**
 13 Insecticide storage **Burn pit**
 Direction from well? **East** How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	0.2	Grass,	106	109.5	Sand (vf-c), tr. to some silt and clay, Lt. Yello
0.2	8.5	Clay, silty, tr. sand, Dark Grayish Brown	109.5	120	Sand (f-c), tr. to some gravel, Yellowish Brow
8.5	12	Clay, tr. sand and silt, Brown	120	122	Clay, tr. sand and silt, Brown
12	19	Silt, clayey, tr. sand, Reddish Yellow			
19	24	Clay, silty, tr. sand, Yellowish Brown			
24	34	Silt, clayey, tr. to some sand, Strong Brown			
34	38.5	Clay, tr. sand, hard, Pale Brown			
38.5	51.5	Clay, tr. sand and silt, Brown			
51.5	58	Clay, silty, tr. sand, Very Pale Brown			
58	64	Silt, clayey, some sand, Very Pale Brown			
64	71	Clay, silty, tr. to some sand, Reddish Yellow			
71	78.5	Sand, clayey, some silt, Yellowish Red			
78.5	89	Clay, some sand and silt, Light Brown			SB4 (SVE5)
89	93.5	Sand (vf-c), silty, Yellowish Brown			Project Name: BM - NNG - Sublette Plant
93.5	106	Clay, sandy, tr. silt, Pale Brown			GeoCore # 1159, #

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **(1)** constructed, **(2)** reconstructed, or **(3)** plugged under my jurisdiction and was completed on (mo/day/year) **11/2/2004** and this record is true to the best of my knowledge and belief.
 Kansas Water Well Contractor's License No. **527** This Water Well Record was completed on (mo/day/yr) **12/1/2004**
 under the business name of **GeoCore, Inc.** by (signature) *Dale Kolf*

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