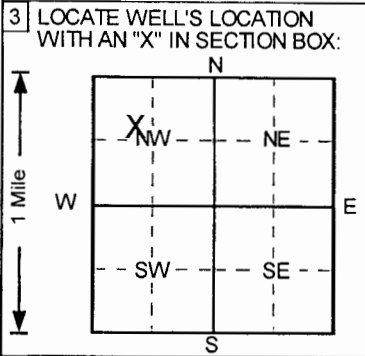


1 LOCATION OF WATER WELL: County: **Seward** Fraction: **SE ¼ NW ¼ NW ¼** Section Number: **1** Township Number: **T 32 S** Range Number: **R 33 E/W**

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:



4 DEPTH OF COMPLETED WELL: **50** 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 **30** 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 **30** ft. to **50** ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft., From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From **28** ft. to **51** 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 **28** ft., From **51** 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? **West** How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	0.2	Grass,	109	119.5	Sand (f-c), tr. to some gravel, Lt. Yellowish Br
0.2	8.5	Clay, silty, tr. sand, Very Dark Gray	119.5	122	Clay, tr. to some sand, Light Brown
8.5	11	Clay, tr. silt and sand, Brown			
11	13	Silt, clayey, some sand, Light Brown			
13	17.5	Clay, sandy, some silt, Light Brown			
17.5	25.5	Clay, silty, tr. to some sand, Brown			
25.5	29.5	Silt, clayey, some sand, Strong Brown			
29.5	40.5	Clay, tr. silt and sand, Light Brownish Gray			
40.5	43	Clay, sandy, some silt, Brown			
43	51.5	Clay, tr. sand, hard, Very Pale Brown			
51.5	68	Clay, sandy, tr. to some silt, Lt. Yellowish Bro			
68	89	Clay, sandy, tr. to some silt, Reddish Yellow			
89	93.5	Sand (vf-c), clayey, some silt, Strong Brown			SB7 (SVE7), Tag # ,
93.5	106.5	Clay, sandy, some silt, Yellowish Brown			Project Name: BM - NNG - Sublette Plant
106.5	109	Sand (vf-c), tr. gravel, Lt. Yellowish 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 Ball*

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SEC.  
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