

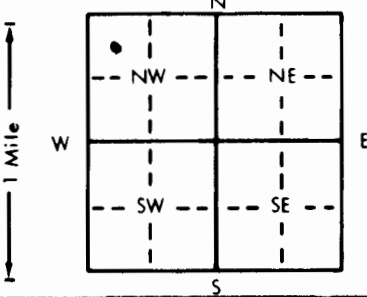
1 LOCATION OF WATER WELL: Fraction NE 1/4 NW 1/4 Section Number 17 Township Number T 35 S Range Number R 32 E  
 County: Seward

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

4 1/2 south of Liberal, KS and west into.

2 WATER WELL OWNER: Grant Oil Inc.  
 RR#, St. Address, Box # : 1391 Carr Board of Agriculture, Division of Water Resources  
 City, State, ZIP Code : Lakewood, Colorado 80215 Application Number: T83-287

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 300 ft. ELEVATION: .....



Depth(s) Groundwater Encountered 1. .... ft. 2. .... ft. 3. .... ft.  
 WELL'S STATIC WATER LEVEL 150 ft. below land surface measured on mo/day/yr 7-13-83  
 Pump test data: Well water was 298 ft. after 1 hours pumping 100 gpm  
 Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm  
 Bore Hole Diameter. 8 3/4 in. to ..... 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 Observation well  
 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: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued  Clamped .....  
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded .....  
 PVC 4 ABS 7 Fiberglass ..... Threaded .....

Blank casing diameter 5 in. to 302 ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.  
 Casing height above land surface 24 in., weight ..... lbs./ft. Wall thickness or gauge No. 258

TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement  
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) .....  
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)  
 1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes  
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) .....

SCREEN-PERFORATED INTERVALS: From 200 ft. to 300 ft., From ..... ft. to ..... ft.  
 GRAVEL PACK INTERVALS: From 20 ft. to 300 ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other .....  
 Grout Intervals: From 10 ft. to 10 ft., From ..... ft. to ..... ft., From ..... ft. to ..... 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  
 Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	20	Sand-Sandy Clay			
20	40	Sandy Clay-Cleachie-Clay			
40	60	Clay-Sand -Clay			
60	80	Clay-Cleachie-Sandy Clay			
80	100	Sandy Clay-Cleachie			
100	120	Cleachie-Sand-Sandy Clay			
120	140	Sandy Clay			
140	160	Sandy Clay-7' Sand-Sandy Clay			
160	180	Sandy Clay-Clay			
180	200	Clay-Sandy Clay-4' Sand			
200	220	Sandy Clay-6' Sand			
220	240	Sandy Clay-7' Sand-Sandy Clay			
240	260	Sandy Clay-Green Clay-5' Sand			
260	280	9' Sand-Sandy Clay			
280	300	15' Sand-Green Clay			

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) 7-13-83 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. K.W.W.C.L. 430 This Water Well Record was completed on (mo/day/yr) 7-13-83 under the business name of Howard Drilling Company by (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen, PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Division of Environment, Environmental Geology Section, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY  
T 35 R 32 E