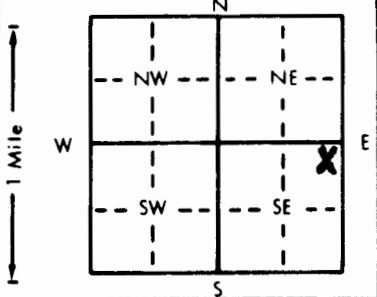


1 LOCATION OF WATER WELL: County: Grant Fraction: NE 1/4 NE 1/4 SE 1/4 Section Number: 22 Township Number: T 29 S Range Number: R 38 EW

Distance and direction from nearest town or city street address of well if located within city?
4 1/2 miles SE of Cognac, KS--

2 WATER WELL OWNER: ARCO Oil & Gas Co.
 RR#, St. Address, Box #: P.O. Box 1610
 City, State, ZIP Code: Midland, TX 79702
 Board of Agriculture, Division of Water Resources
 Application Number: 910073

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



4 DEPTH OF COMPLETED WELL: 460 ft. ELEVATION: _____
 Depth(s) Groundwater Encountered 1. 150 ft. 2. _____ ft. 3. _____ ft.
 WELL'S STATIC WATER LEVEL: 150 ft. below land surface measured on mo/day/yr 02-11-91
 Pump test data: Well water was 270 ft. after 1 hours pumping 95 gpm
 Est. Yield 95 gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 Bore Hole Diameter: 11 in. to 460 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
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No X; If yes, mo/day/yr sample was submitted _____
 Water Well Disinfected? Yes X No _____

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued X Clamped _____
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 7 Fiberglass Threaded _____
 Blank casing diameter 6 in. to 460 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface: 24 in., weight _____ lbs./ft. Wall thickness or gauge No. .032
 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 360 ft. to 460 ft., From _____ ft. to _____ ft.
 From 240 ft. to 300 ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From 200 ft. to 460 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 Hole plug
 Grout Intervals: From 1 ft. to 20 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? Northeast How many feet? 200

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	1	Top soil	364	378	Clay
1	46	Sandy Clay	378	401	Sand
46	63	Sand	401	428	Sandy Clay
63	72	Clay	428	448	Sand
72	129	Sand and Gravel	448	460	Clay
129	182	Clay			
182	187	Sand			
187	226	Clay			
226	230	Fine Sand			
230	248	Sandy Clay			
248	256	Sand			
256	272	Sandy Clay			
272	280	Sand			
280	328	Sandy Clay			
328	364	Sand			

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) 02-11-91 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. KWWCL-430 This Water Well Record was completed on (mo/day/yr) 02-11-91 under the business name of Howard Drlg. Co. Box 806 Beaver, OK 73932 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, Bureau of Water, Topeka, Kansas 66620-7320. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.