

1 LOCATION OF WATER WELL: County: <u>Stafford</u>	Fraction <u>NW</u> $\frac{1}{4}$ <u>SE</u> $\frac{1}{4}$ <u>SE</u> $\frac{1}{4}$	Section Number <u>33</u>	Township Number T <u>21</u> S	Range Number R <u>14</u> E <u>10</u>
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Distance and direction from nearest town or city street address of well if located within city?

2 miles East, 1/4 mile North of Radium

2 WATER WELL OWNER: RR#, St. Address, Box # : <u>Citation Oil & Gas</u> <u>8223 Willow Place South, Suite 250</u> City, State, ZIP Code : <u>Houston, TX 77070</u>	Board of Agriculture, Division of Water Resources Application Number: <u>979080</u>
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3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:	4 DEPTH OF COMPLETED WELL: <u>450</u> ft. ELEVATION:
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1 Mile

Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.

WELL'S STATIC WATER LEVEL N/A ft. below land surface measured on mo/day/yr

Pump test data: Well water was ft. after hours pumping gpm

Est. Yield gpm; Well water was ft. after hours pumping gpm

Bore Hole Diameter. 12 1/4 in. to 220 ft., and 7 7/8 in. to 220-435 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:	5 Wrought iron	8 Concrete tile	CASING JOINTS: Glued Clamped
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1 Steel 3 RMP (SR)

2 PVC 4 ABS

Blank casing diameter 8 5/8 in. to 120 ft., Dia 5 1/2 in. to 0-435 1/2 ft., Dia

Casing height above land surface. N/A in., weight lbs./ft. Wall thickness or gauge No.

6 Asbestos-Cement 9 Other (specify below)

7 Fiberglass

Welded X

Threaded.

TYPE OF SCREEN OR PERFORATION MATERIAL:	7 PVC	10 Asbestos-cement
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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	<u>11 None (open hole)</u>
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1 Continuous slot 3 Mill slot 6 Wire wrapped

2 Louvered shutter 4 Key punched 7 Torch cut

10 Other (specify)

SCREEN-PERFORATED INTERVALS:	From. ft. to ft., From ft. to ft.
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GRAVEL PACK INTERVALS:	From. ft. to ft., From ft. to ft.
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6 GROUT MATERIAL:	1 Neat cement	<u>2 Cement grout</u>	3 Bentonite	4 Other
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Grout Intervals: From 0 ft. to 435 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	<u>15 Oil well/Gas well</u>
3 Watertight sewer lines	6 Seepage pit	9 Feedyard	12 Fertilizer storage	16 Other (specify below)
			13 Insecticide storage	

Direction from well? West How many feet? 1500'

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	3	Sandy Top Soil	365	391	Red + gray Shale
3	8	Silty Clay	391	420	Red Shale
8	20	Sandy Clay	420	450	Red Shale w/pieces of gray Shale
20	30	Sand			
30	133	Sand & gravel			
133	138	Clay			
138	176	Sand + gravel			
176	183	Clay			
183	197	Brown Clay			
197	200	Sand			
200	216	Brown Clay			
216	275	Gray Shale			
275	300	Red Shale			
300	360	Fine Brown Sand			
360	365	Soft gray Shale			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <u>(1) constructed</u> (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>10-27-98</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>134</u> This Water Well Record was completed on (mo/day/yr) <u>11-26-98</u> under the business name of <u>Rosencrantz-Bemis Ent. Inc.</u> by (signature) <u>Alicia Coffey</u>
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