

MW 225

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: FORD	Fraction SE 1/4 SE 1/4 NW 1/4	Section Number 22	Township No. T 26 S	Range Number R 24 E <input checked="" type="checkbox"/> W
---	---	-----------------------------	-------------------------------	--

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here

Global Positioning System (GPS) information:
 Latitude: (in decimal degrees)
 Longitude: (in decimal degrees)
 Elevation:
 Datum: WGS 84, NAD 83, NAD 27
 Collection Method:
 GPS unit (Make/Model:)
 Digital Map/Photo, Topographic Map, Land Survey
 Est. Accuracy: <3 m, 3-5 m, 5-15 m, >15 m

2 WATER WELL OWNER: **KOCH NITROON**
 RR#, Street Address, Box #: **11559 Hwy 50**
 City, State, ZIP Code : **DODGE CITY KS 67801**

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N

NW	NE
SW	SE

S

----- 1 mile -----

4 DEPTH OF COMPLETED WELL **89'** ft.

Depth(s) Groundwater Encountered (1).....**75'** ft. (2)..... ft. (3)..... ft.

WELL'S STATIC WATER LEVEL.....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 **6"** in. to **89'** ft., andin. toft.

WELL WATER TO BE USED AS: Public water supply Geothermal Injection well
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Domestic-lawn & garden Monitoring 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 CASING USED: Steel PVC Other

CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter **2"** in. to **84'** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface.....**30"** in., Weight **0.682** lbs./ft., Wall thickness or gauge No. **2140**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)

SCREEN-PERFORATED INTERVALS: From **89'** ft. to **84'** ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **89'** ft. to **82'** ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From **77'** ft. to **0'** ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Sepage pit Feedyard Fertilizer storage Oil well/gas well **CHINA PLANT**

Direction from well **EAST OF PLANT** Distance from well **7,100'**

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	4	topsoil	36	44	Sand
4	7	clay	44	55	clay w/ silt
7	13	silty sand	55	66	Sand
13	22	clay and caliche	66	71	clayed sand
22	25	caliche	71	90	Sand w/ silt
25	28	clay w/ sand			
28	30	sand			
30	33	clay w/ sand			
33	35	caliche			
35	36	clay			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) **09/27/11** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **793**. This Water Well Record was completed on (mo/day/year) **9/19/11** under the business name of **Cahoy Pump Service, Inc.** by (signature) **Dawn J. Cahoy**

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.

Original Returned to Sender
 for Correction Date: **9-26-11**

Borehole No. MW-22S

Borehole Log

Project No.: TXR0118	Location: Dodge City, KS
Client: Koch Nitrogen Company	Coordinates: Not Yet Surveyed
Logged By: Alex Rivera	Borehole Diameter: 6 inch
Drilling Company: Major Drilling	Site Datum:
Drilling Method: Rotosonic	Ground Surface Elevation: Not Yet Surveyed
Well Material: Not Applicable	Top PVC Casing Elevation:
	Completion Date: 27 June 2011

Depth (ft)	Water Level (ft)	Stratigraphy	Lithologic Description	Geologic Samples				Well Configuration	Comments
				Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)		
			Topsoil, brown, moist						
5			Clay, few silts, brown, moist, firm, low plasticity Light brown	CL	NA				← Grout (0-75 ft bgs)
			Silty sand, brown, dry, very fine sands	SM					
10									
15			Clay and caliche, 60% clays, 40% caliche, brown, dry, very stiff Caliche and clay, 50% caliche, 50% clay, pale brown, moist	CL	NA				
20									
25			Caliche, white, trace clays, some fine sands, dry Some clays, hard						
			Clay with sand, brown to light brown, dry, low plasticity, very hard, cementitious	CL					
30			Poorly graded sand, some caliche, few clays, light brown, dry	SP					
			Clay with sand, brown to light brown, dry, low plasticity, very hard, cementitious	CL					
			Caliche, white, 10% clays, some fine sands, dry						
35			Clay, few silts, medium brown to brown, moist, medium plasticity	CL	NA				
			Poorly graded sand with clay, 10% caliche, brown, moist	SP					
			Poorly graded sand, few clays, 5% caliche, trace fine gravel, light brown, dry	SP					
40									
45			Clay with silt, medium brown, moist, low plasticity						
			Brown, dry to moist	CL					
50									
55			Poorly graded sand, medium brown, some light pink clays, moist	SP					

Report MASTER (TR0196); File: C:\USERS\ARIVERA\DESKTOP\KANSAS\KCOCH.GPJ; 7/19/2011

Borehole No. MW-22S

Borehole Log

Project No.:	TXR0118	Location:	Dodge City, KS
Client:	Koch Nitrogen Company	Coordinates:	Not Yet Surveyed
Logged By:	Alex Rivera	Borehole Diameter:	6 inch
Drilling Company:	Major Drilling	Site Datum:	
Drilling Method:	Rotosonic	Ground Surface Elevation:	Not Yet Surveyed
Well Material:	Not Applicable	Top PVC Casing Elevation:	
		Completion Date:	27 June 2011

Depth (ft)	Water Level (ft)	Stratigraphy	Lithologic Description	Geologic Samples				Well Configuration	Comments	
				Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)			Soil Sample ID
65			Clay with sand, medium brown, moist, medium plasticity	CL	NA					
			Poorly graded sand, few clays, medium brown, moist, very fine sands	SP						
			Sand with clay							
70			Pale brown, 20% clays							
			Clayey sand, pale brown, moist, very fine sands	SC						
75			Poorly graded sand with silt, brown, dry, very fine sands, slightly cementitious							
			Light brown, moist	SP SM						
80									Bentonite pellet seal	
85			Trace pockets of dark gray clay		NA					5-ft well screen from 83.5-88.5 ft bgs; silica sand filter pack
90			Medium brown Borehole depth 90.0 ft							
95										
100										
105										
110										
115										

Report: MASTER (TR0196); File: C:\USERS\ARIVERA\DESKTOP\KANSAS\KCOCH.GPJ; 7/19/2011