

MW 25

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 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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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 NITROGEN**
 RR#, Street Address, Box #: **11559 Hwy 50**
 City, State, ZIP Code : **DOBBS CITY KS 67001**

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

--NW--	--NE--	
--SW--	--SE--	

 E
 S
 |-----| mile |-----|

4 DEPTH OF COMPLETED WELL **147'** ft.
 Depth(s) Groundwater Encountered (1) **UNK** 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 **147'** ft., and in. to ft.
 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 **142'** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface **36"** in., Weight **0.682** lbs./ft., Wall thickness or gauge No. **SC# 40**
 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 **147'** ft. to **142'** ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From **147'** ft. to **140'** 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 **137'** 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 Seepage pit Feedyard Fertilizer storage Oil well/gas well **PROCESS PLANT**
 Direction from well **SOUTH OF PLANT** Distance from well **> 1000'**

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	5	Topsoil	126	130	Silt & sand
5	50	clay w/ some silts	130	135	Silt
50	54	caliche	135	137	clay & silt
54	70	sandy clay	137	140	Silt
70	75	sandy silt	140	143	clay & silt
75	87	sand	143	145	Silt
87	106	Clay w/ caliche + sand	145	147	Sand
106	110	Sand	147	150	Sand
110	117	Clay & silt	150	155	shale
117	126	Sand w/ 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) **09/10/2011** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **193** This Water Well Record was completed on (mo/day/year) **9/19/11** under the business name of **Caney Pump Service, Inc.** by (signature) **Darwin J. Caney**

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>.

Borehole No. MW-25

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: 10 June 2011

Depth (ft)	Water Level (ft)	Stratigraphy	Lithologic Description	Geologic Samples				Well Configuration	Comments
				Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)		
0			Topsoil, brown, dry, loose						← Grout (0-132 ft bgs)
5			Clay, trace caliche, brown, moist, firm, stiff, low plasticity		90				
10			Some silts						
15			Few silts, soft						
20									
25				CL	50				
30									
35			Medium plasticity						
40			Caliche clay, pale brown to white, moist to dry, soft, low plasticity						
45					100				
50			Clay and silt, trace fine gravel caliche, medium brown, dry, very stiff, low plasticity	CL ML					
52			Caliche, white, dry						
55			Sandy clay, medium brown, dry, stiff, low plasticity Pockets of gray clay, medium plasticity	CL					
60			Sandy caliche clay, pale brown to white, dry, low						

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				Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID		
65			plasticity, firm Few sands	CL	90					
70			<u>Sandy clay</u> , some caliche, medium brown, dry, low plasticity <u>Caliche clay</u> , pale brown to white, dry, firm, low plasticity <u>Sandy silt</u> , brown, dry, soft Medium brown Some clays	ML						
75			<u>Poorly graded sand with silt</u> , trace fine gravel caliche, trace clays, brown, moist to dry, firm, fine to very fine sands							
80			Medium brown, soft, moist	SP SM						
85			Few pockets of gray clay		100					
90			<u>Clay</u> , trace caliche, gray to medium brown, moist to dry, stiff, medium plasticity							
95			<u>Caliche clay</u> , pale brown to white, dry, firm, low plasticity Trace caliche, gray to medium brown, moist to dry, stiff, medium plasticity	CL						
100			<u>Sandy clay</u> , pale brown, moist to dry, firm, medium plasticity <u>Clay</u> , some caliche, pale brown, moist, soft low plasticity Trace caliche, firm							
105			Trace sands, pale brown to brown		100					
110			<u>Poorly graded sand with clay</u> , brown, moist to dry, fine to very fine sands	SP SC						
115			<u>Clay and silt</u> , trace caliche, medium brown, dry, low plasticity	CL ML						
			<u>Poorly graded sand with clay</u> , light brown to pale brown, dry, fine to very fine sands, low plasticity,	SP SC						

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				Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)		
125			moderately cementitious	SP SC	100				
130			Silt and sand, medium brown, moist to dry Trace caliche, pale brown, dry, cementitious	SP SM					
135			Silt, some clays, medium brown, moist to dry	ML					
140			Clay and silt, gray, moist, soft, medium plasticity	CL ML					Bentonite pellet seal
145			Silt, some very fine sands, some pockets of clay, light brown, moist to dry	ML					
150			Clay and silt, trace caliche, light gray-brown, moist to dry, firm, low plasticity	CL ML					
155			Silt, trace caliche, few clays, light brown, dry, very firm	ML	100				5-ft well screen from 142-147 ft bgs; silica sand filter pack
160			Poorly graded sand, light yellow, dry, very fine to fine sands, cementitious	SP					
165			Silt, some light gray weathered shale, trace sands, orange, dry, very stiff	ML					
170			Shale, light gray, dry, weathered Trace clays, some iron staining, orange and light gray, dry						Bentonite pellet backfill Hard drilling from 153-155 ft bgs
175			Borehole depth 155.0 ft						

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