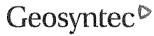
						W 02					
WATER WELL RECORD	Form W	WC 5	rx		er Resources App.	No					
1 LOCATION OF WATER WELL:	Fraction	<u> </u>		on Number	Township No.						
County: Forb	SW/4 SW1/4 SU		1	S	T ZL S	R ZSY DE DW					
Street/Rural Address of Well Location; from nearest town or intersection: If at					g System (GPS)						
from heatest town of intersection. If at	owner's address, check		Latitude: (in decimal degrees) Longitude: (in decimal degrees)								
		Eleva	ation:		× × × × × × ×						
2 WATER WELL OWNER: KOCH	NITROGEN			n: ∐ WGS 8 ction Method:	34, □ NAD 83, [_ NAD Z/					
RR#, Street Address, Box #: 1/559	My 50		☐ GPS unit (Make/Model:) ☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey								
	CITY, KS 67	go 1	Est. A	olgital Map/Pi	noto,	☐ 5-15 m, ☐ >15 m					
3 LOCATE WELL WITH AN "X" IN 4 DEPTH OF	COMPLETED WEL	. /	10	ft							
SECTION BOX: Depth(s) Groundwater Encountered (1)											
N WELL'S STATIC WATER LEVELft. 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											
W E Bore Hole Diam	eter ka in. to	9.:	ft., and	in	. to	ft.					
Domestia	TO BE USED AS:					Injection well					
Irrigation	SW - SE - Domestic Feedlot Oil field water supply Dewatering Other (Specify below) Irrigation Industrial Domestic-lawn & garden Monitoring well										
	bacteriological sample	submitted t	o Depar	tment?							
S If yes, mo	day/yr sample was sub fected?	omittea No		*******							
5 TYPE OF CASING USED: Stee				*********							
CASING JOINTS: Glued Clar	nped Welded	Threade	d								
Casing diameter	in Weight	in.	to	ft., E	Diameter	in. to					
TYPE OF SCREEN OR PERFORATION	MATERIAL:		***************************************	i., Wan iii	ckiless of gauge	110					
Steel Stainless Steel Brass Galvanized Steel	PVCNone used (open h	ole)	Other (Specify)	• • • • • • • • • • • • • • • • • • • •	****					
SCREEN OR PERFORATION OPENING	S ARE:	,									
Continuous slot Mill slot Louvered shutter Key punched	Gauze wrapped	Torch cut	Dri	lied holes	☐ None (open h	ole)					
SCREEN-PERFORATED INTERVALS:	From/19	ft. to <i>l.e</i> .	6. P	ft., From	fi	t. to ft.					
GRAVEL PACK INTERVALS:	From //	ft. to	· · · · · · · · · · · · · · · · · · ·	ft., From	fi	t. to ft.					
GRAVEL FACE INTERVALS.	From	ft. to	· · · · · · · · · · · · · · · · · · ·	π., From . ft., From	r fi	t. to ft.					
6 GROUT MATERIAL: Neat ceme	ent Cement grout	Bento	nite [Other							
Grout Intervals: From ft. to What is the nearest source of possible contract.	· C It., From	1	ft. to	ft.,	, From	ft. toft.					
Septic tank Lateral lin	es Pit privy	Livestock	•	Insecticide		ther (specify below)					
Sewer lines Cesspool Watertight sewer lines Seepage p	☐ Sewage lagoon it ☐ Feedyard	Fuel storag		☐ Abandone ☐ Oil well/g	d water well as well	Kenical plant					
Direction from well . NORTH OF.	PLANT	. Distance	from w	ell	<u> </u>	************					
FROM TO LITHOLOGO	ICLOG	FROM.	TO			UGGING INTERVALS					
4 43 Clay		89	89 97	Calich	w/sil	7					
43 52 Caliche		91	113	5:17	w/ san	A					
52 57 Sand w/ silt 57 60 Clay w/ san	and clay	113	115	poorly	,	sand w/silf					
40 46 Caliche		117.5	118.5	Silty	sanded	sewed w/silf					
66 68 Clay w/ sam	d .	118.5	120	clay	w/silf						
13 79 Clay w/ cal	iohe	120	125	Shala	2						
79 43 Clay w/ sund											
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) \\ \(\frac{1}{2} \ightarrow \end{1} \\ \frac{1}{2} \ldots \end{1} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\											
Kansas Water Well Contractor's License No											
under the business name of Canay Fung. Survey Survey by (signature) Survey Canay. INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and cheek the correct answers. Send three copies											
(white, blue, pink) to Kansas Department of Health	and Environment, Bureau	of Water, Geol	ngy Section	on. 1000 SW Ja	ickson St. Suite 420	Toneka Kansas 66612-1367					
Telephone 785-296-5522. Send one copy to WAT http://www.kdheks.gov/waterwell/index.html.	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.										
KSA 82a-1212			Cl	neck: / W	hite Copy, 🔲 B	Blue Copy, Pink Copy					



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Borehole No. MW-02

Page 1 of 2

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:

Ground Surface Elevation: Not Yet Surveyed

Drilling Method: Rotosonic

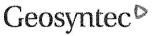
Top PVC Casing Elevation:

Wall Material

Not Applicable

Completion Date:

Well Material:		rial:	Not Applicable Complet	on Date: 20 M			20 May :	May 2011			
					Geologic :			Samples		II .	Comments
Depth (ft)	Water Level (ft) Stratigraphy	Lithologic Description	Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID		onfigu- ration		
=		三三	Topsoil, brown, moist	***************************************							Grout (0-109 ft
=											bgs)
5			Clay, brown, moist, stiff, medium plasticity Medium brown Light brown 40% caliche 15% caliche	5	75						
15 20 25 33 35 40 45 45 5 45 5 6 6 6 6 6 6 6 6 6 6 6 6 6			Brown, moist, soft, low plasticity, 40% silts	CL	75						- Drilling fluid return observe
30			30% caliche 40% caliche Caliche clay, 50% caliche, 50% clay	a de contra de c					***************************************		
35			Light brown, moist, firm, low plasticity, 30% fine sands Caliche clay, pale brown, moist, 50% caliche, 50% clay Clay, pale brown, moist, soft, high plasticity								
45 50			<u>Caliche</u> , some fine sands, white, moist, firm 30% clay		100						-Drilling fluid return observed; slov advancement
55			Poorly graded sand with silt and clay, medium brown, moist, 5% caliche	SP SM							
			Clay with sand, 30% fine sands, medium brown, moist, low plasticity, soft, few silts	CL	_						Notable vie
60-			Caliche, some fine sands, white, moist, firm, some pale brown clays								-Notable rig chatter, intermittent
65			With red-brown very fine sands, few clays		100						55-65 ft bgs
			Clay with sand, 10% caliche, red-brown, moist, low plasticity, soft Caliche, white, moist, hard, 5% red-brown fine sands, few clays	CL							
70			Clay with caliche, red-brown, moist, firm, some fine	CL							



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Borehole No. MW-02

Page 2 of 2

Borehole Log

Project No.:

TXR0118

Location:

Dodge City, KS

Client:

Koch Nitrogen Company

Coordinates:

Not Yet Surveyed

Logged By:

Alex Rivera

Borehole Diameter: Site Datum:

6 inch

Drilling Company: Major Drilling

Ground Surface Elevation: Not Yet Surveyed

Drilling Method: Rotosonic

Top PVC Casing Elevation:

Well Material:		rial:	Not Applicable Comp	oletion Da	te:		20 May 2	2011		
					Ge	ologic	ic Samples		Well Configu-	Comments
Depth (ft) Water Level (ft) Stratigraphy	Stratigraphy	Lithologic Description	Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID	ration		
			\sands Poorly graded sand with clay, 30% fine sands, red- brown, moist, trace silts	SP SC						-Slight rig chatter 74-75 ft bgs
80-			Clay with sand, 30% very fine sands, brown, moist, low plasticity, stiff	CL						
85			<u>Caliche</u> , some fine sands, white, dry, very hard		100		1			
90			Poorly graded sand with silt, medium brown, moist, trace clays	SP SM						
95			Brown, saturated Silt with sand, brown, wet, trace clays Moist							
100				SM	100		1			,
110-										■ Bentonite pellet seal
110 115 125 130 135 140			Poorly graded sand, trace silts, medium brown, wet, very fine sands Poorly graded sand with silt, orange with gray, moist, very fine sands Gray with orange, moist Silty sand, orange, wet, very fine sands	SP SM SM CL	100					5-ft well screen from 114-119 ft bgs; silica sand filter pack
125			Cray Clay with silt, trace shale, light gray, moist, low plasticity, soft Shale, gray, trace red weathered shale, very hard Very dark gray, moist, very hard							■ Bentonite pellet backfill Drilling fluid return
130			Borehole depth 125.0 ft							observed; moderate rig chatter at 122 ft bgs
135										
140										
		1.25								