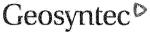
Wm 33 D

WATER WI	ELL RECORD	Form W	WC-5	Di	vision of Water	r Resources App. No	_{),} L	- NO
1	N OF WATER WELL:	Fraction SE1/4SE1/4V	راسا		on Number	Township No.	Range Nu	
County:	Address of Well Location;	funknown distance	& direction		22	T 26 S System (GPS) in		DE DW
	st town or intersection: If at o					· · · · · · · · · · · · · · · · · · ·		nal degrees)
		,		Long	itude:	******************	(in decin	
2 WATER	WELLOWNER: KOCH	WITROCKN			n: ☐ WGS 84 ction Method:	I, □ NAD 83, □	NAD 27	
	t Address, Box #:	my 50			GPS unit (Mak	e/Model:		
City, State		CITY KS 67	1801		Digital Map/Pho	oto, 🔲 Topographic 3 m, 🔲 3-5 m, 🔲	e Map, [] L	and Survey
3 LOCATE V	ZER E						3-13 III,	>13 m
WITH AN	X" IN 4 DEPTH OF C	COMPLETED WEL	.L[5		ft.	Mois +		
SECTION I	Depun(s) Ground	lwater Encountered C WATER LEVEL	(1) C. S.	It.	(2) /≯	ft. (3)	ft.
<u> </u>	Pump	test data: Well wat	er was	it, below.	iand surface n after	neasured on mo/da hours numr	ay/yr nino	orm
w NW	EST. YIELD	gpm. Well water	er was	ft.	after	hours pum	ping	gpm
w T		gpm. Well wate eter6in. to .	131	.ft., and .	in.			
	[] Domastia	TO BE USED AS: [☐ Feedlot ☐				othermal Inwatering In	njection we	:: :::::::::::::::::::::::::::::::::::
SW	- SE Donnesare	☐ Industrial ☐	Domestic-I	awn & ga	rden Mo	nitoring well	omer (Spec	ny below)
<u> </u>		bacteriological sampl	e submitted	to Depart	ment?	Yes 🗌 No	*************	***********
S 1 mile		day/yr sample was su						
,	water wen disin	fected? Yes						
5 TYPE OF C	CASING USED: Steel	PVC [Other			****		
Casing diam	NTS: Glued Clan	iped Welded	Inread	ed v to	e Di	omator	in to	r.
Casing heig	ht above land surface 🗱	in., Weigh	t 0.68	:lbs./f	t Wall thic	kness or gauge No	. III. 10) SEA	
TYPE OF SC.	REEN OR PERFORATION	MATERIAL:						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
☐ Steel ☐ Brass	☐ Stainless Steel ☐ Galvanized Steel	PVC None used (open l] 	Other (S	Specify)			
Special Control of the Control of th	PERFORATION OPENING		1016)					
Contin	uous slot Mill slot	Gauze wrapped	Torch cut	☐ Dri	lled holes	None (open hole	·)	
SCREEN-PE	red shutter Key punched RFORATED INTERVALS:	Wire wrapped	Saw cut	U Oth	er (specify)			Δ.
	THE STATE OF THE S	From	ft. to		ft., From	ft. t	O	
GRA	VEL PACK INTERVALS:	From. 1.31	ft. to!	s#	ft., From	ft. t	.0 0.	ft.
6 CPOUT M	ATERIAL: Neat ceme	From	ft. to		. ft., From	ft. t	0	ft.
Grout Intervals	From	Qft Fron	ı 🗀 Benu	onite _	J Other	From	ft to	
	arest source of possible conta	mination:				/ · · · · · · · · · · · · · · · · · · ·	. 16, 60	*******************
☐ Septic ☐ Sewer		es Pit privy	Livestock	pens	Insecticide:		er (specify b	elow)
	ight sewer lines Seepage p.	☐ Sewage lagoon	☐ Fuel stora	ige storage	☐ Abandoned ☐ Oil well/gas		m Pean	-
Direction fr	om well EASTe.	P-GARZT		e from we		1000	***********	***********
FROM TO	LITHOLOG	CLOG	FROM	ТО		G (cont.) or PLU		
9 4 7	Topsoil		115	134		e caliene	<u> </u>	51145
7 13	Silty sand		134	136	shall	stone		
13 22	clay + calie	he	139	144	shal			****
22 25	calishe		144	145		1 stone	***************************************	
25 44		Its & calibb	4		*			
44 55 55 46	Sand w/ silt	44.48 01.						***************************************
66 16	Clayed sand	me clay						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
7/ 115	Sand							
7 CONTRAC	FOR'S OR LANDOWNER	'S CERTIFICATIO	N; This wa	ter well w	/as 🔽 constru	cted, 🗌 reconstru	icted, or 🔲	plugged
under my jurise	diction and was completed or	(mo/day/year) (15/6	14. [2 011 8	and this re	cord is true to	the best of my ki	nowledge a	nd belief,
under the busin	Well Contractor's License No less name of CALOY	LOOOSE PULLA	water Well	kecord wa	as completed	on (mo/day/year)	17.J.J.II.	J.CNN.L.L.
INSTRUCTIONS	: Use expewriter or ball boint ben.	-PLEASE PRESS FIRML)	rand <i>PRINT</i> c	learly Plea	ca fill in blanke	and chack the correct	anguard Car	nd three conies
(white, blue, pink)	to Kansas Department of Health a 6-5522. Send one copy to WATI	ind Environment, Hureau	of Water Geo	logy Section	n 1000 SW/Jacl	rean St. Suita 420 T	onaka Kamea	c 66610 1267
nttp://www.kuneks	.gov/waterwell/index.html.	STITLIN GIG	cam one to					u. visit us at
KSA 82a-1212				Ch	eck: D-Whi	te Copy, Diu	е Сору,	Pink Copy



consultants

Borehole No. MW-22D

Page 1 of 3

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

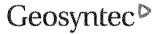
Site Datum:

Ground Surface Elevation: Not Yet Surveyed

Drilling Method: Rotosonic

Top PVC Casing Elevation:

Well Material:		rial:	Not Applicable Complet	ion Da		24 May 2					
				Geologic Samples			Well Configu-		Comments		
Depth (ft)	Water Level (ft)	Stratigraphy	Lithologic Description	Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID	ratio		
			<u>Topsoil</u> , brown, moist								Grout (0-121 ft bgs)
5			<u>Clay</u> , few silts, brown, moist, firm, low plasticity Light brown	CL							
10			<u>Silty sand,</u> brown, dry, very fine sands	SM	100						
5			Clay and caliche, 60% clays, 40% caliche, brown, dry, very stiff Caliche and clay, 50% caliche, 50% clay, pale brown, moist	CL	110-110						
20			<u>Caliche</u> , white, trace clays, some fine sands, dry Some clays, hard	-	100						
25			Clay with sand, brown to light brown, dry, low plasticity, very hard, cementitious	CL	100						
30		7777	Poorly graded sand, some caliche, few clays, light brown, dry Clay with sand, brown to light brown, dry, low plasticity,	SP CL							No. of 4 90
-			very hard, cementitious <u>Caliche</u> , white, 10% clays, some fine sands, dry	OL.							-Hard drilling from 30-33 ft bgs
35			Clay, few silts, medium brown to brown, moist, medium plasticity	CL SP							
40		- 1 <i>/</i> /	Poorly graded sand with clay, 10% caliche, brown, moist Poorly graded sand, few clays, 5% caliche, trace fine gravel, light brown, dry	SP							
45			Clay with silt, medium brown, moist, low plasticity		80						
50			Brown, dry to moist	CL				,	***************************************		
55		<u>(NY)</u>	Poorly graded sand, medium brown, some light pink clays, moist	SP							



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Borehole No. MW-22D

Page 2 of 3

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

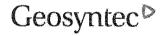
Site Datum:

Ground Surface Elevation: Not Yet Surveyed

Drilling Method: Rotosonic

Top PVC Casing Elevation:

Well Material:	Not Applicable	Completion Da		24 May 2	:011			
	Lithologic Description		Ge	ologic	Samples		Well Configu-	Comments
Depth (ft) Water Level (ft) Stratigraphy		Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID	ration	
	Clay with sand, medium brown, moist, medium plasticity							
65	Poorly graded sand, few clays, medium brown, very fine sands Sand with clay Pale brown, 20% clays	moist, SP	100					
70-	Clayey sand, pale brown, moist, very fine sands	s SC						
	Poorly graded sand with silt, brown, dry, very fil sands, slightly cementitious	ne			- APPLICATION -			
75—	Light brown, moist							
65			eg y					
85	Trace pockets of dark gray clay		95	7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.				
90-	Medium brown							
	Trace pockets of dark gray clay	SP SM	i i i i i i i i i i i i i i i i i i i					
95	Wet							
00	Trace pockets of dark gray clay							
05	Moist, trace fine gravel		100		A STATE OF THE STA			
10-					11100			
45	Trace caliche, trace gravel							
115-	Silt with sand, some clays, trace fine gravel, more brown, moist	ML						
	Z <u>Caliche,</u> some silts and very fine sands, mediu	ım CL						



Borehole No. MW-22D

Page 3 of 3

Borehole Log

consultants

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

Drilling Method:		ethod:	Rotosonic Top PV	PVC Casing Elevation:							
Well	Vlate	rial:	Not Applicable Comple	tion Da	ite:		24 May	2011			
£				Geologic Samples					Well Configu-	Comments	
Depth (ft)	Water Level (ft)	Stratigraphy	Lithologic Description	Unified Soil Classification	Recovery (%)	Blowcount	PID (ppmv)	Soil Sample ID	ration		
125			Clay and silts, 15% sands, brown-dark orange, moist, low plasticity Caliche, some clays, white, dry Few orange silts and clays Red, dry, firm	ML	100					■ Bentonite pellet seal	
130			Silt, 20% caliche, orange, dry Caliche, light gray, dry Sandstone, orange, moist Clay, light gray, some orange silts, few very fine sands, moist, low plasticity	CL ML	100					5-ft well screen from 126-131 ft bgs; silica sand	
135			Sandstone, few fine gravel, medium brown, moist Silt with sand, medium brown, moist Caliche, some clays, orange-brown, dry Silt with sand, orange-brown, moist	ML						filter pack	
140			Shale, light gray to orange, dry, firm, slightly weathered Sandstone, medium brown, moist Shale, light gray, dry, very hard Darky gray to black		100					from 135-145 ft bgs ♣ Bentonite pellet backfill	
145			Dark gray Sandstone, orange-brown, moist Dark gray with red Borehole depth 145.0 ft								
150 155 160 175 1											
155											
160											
165		10.11.11.11.11.11.11.11.11.11.11.11.11.1									
170											
175											