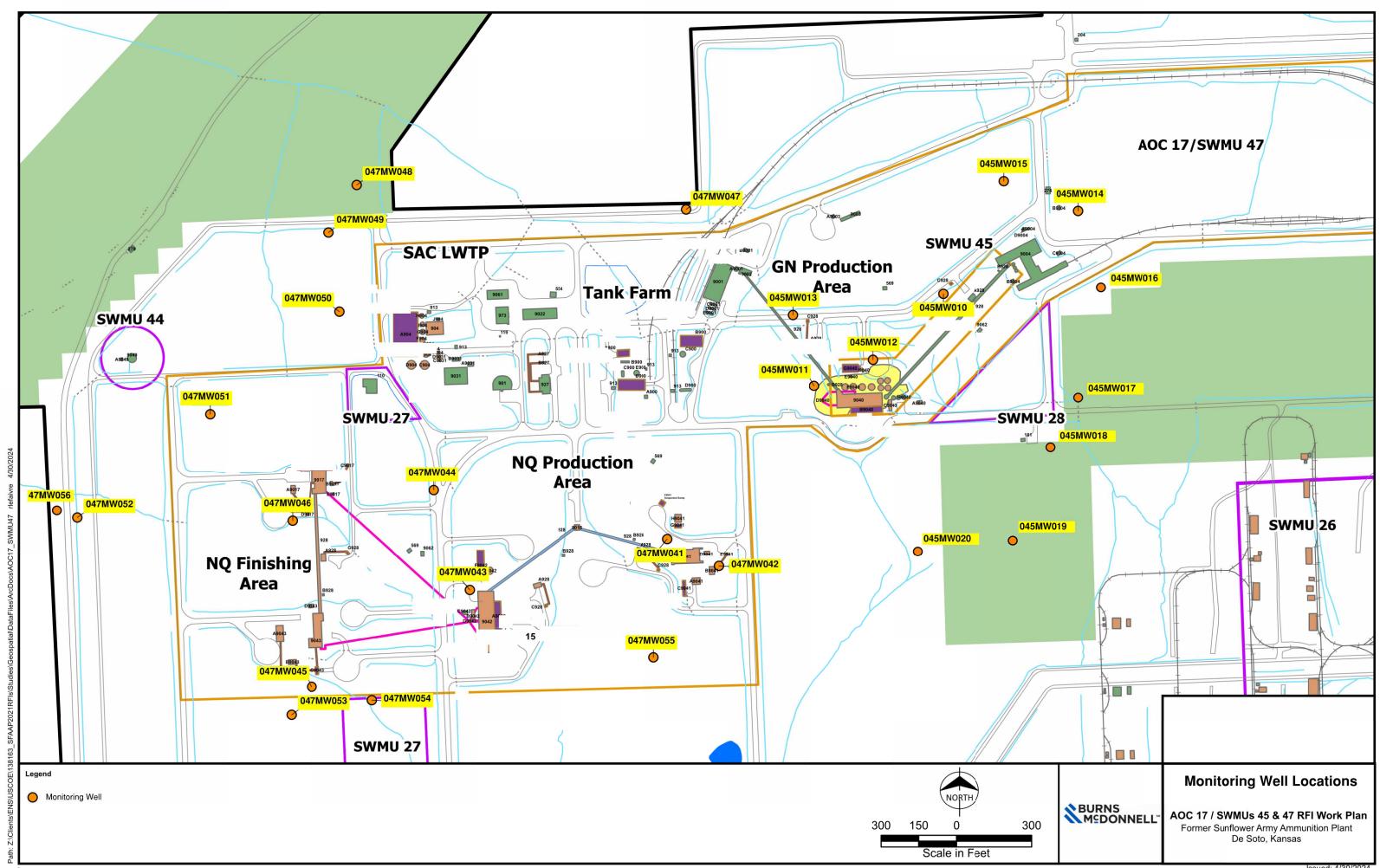
WELL ID

KOLAR DOC ID

(785) 296-3565 | K.S.A. 82a-1212 | v2022c

## **WATER WELL RECORD** (WWC-5)

OCATION OF WATER W	'ELL					Original Reco	ord Co	rrection	Chang	e in We	ll Use
Latitude	Longitude			Section	Township	Range	E W	Fraction	1/4	1/4	1/4
Datum	Elevation			County			vv				
WATER WELL OWNER				NATER USE			NFAREST	SOURCE OF	POTENTIAL C	ONTAMIN	IATION
Name					<u>-</u>						IAIIOII
							Distance		Direction		
Business			COMPI	LETION			from well	l:	from wel	l:	
Address			Depth	of complet	ted well:	ft.	Source				
11441000			-	-	water encountered	:	description	on:			
					(2) ft.;		Source:				
Well location			(3)	ft.; (	(4) dry well				Direction from wel	n	
.4			Static	water level	in well:	ft.			from we	1;	
at owner's address					ow land surface		Source description	on:			
CONSTRUCTION				(mm/dd/y			No no	tential sour	ce of contami	nation	
	Danah ala dia	.m. ot om		easured abo (mm/dd/y	ve land surface			n 100 feet.	ce of contains	ilation	
Borehole interval:	Borehole dia						PERMIT &	ID NUMBER	RS (AS REQUI	RED)	
fromto ft.		in.		-	gpm		Ditte :	1 3-			
fromto ft.		in.	Water	level was:	ft. after		_	-	.:		
Casing height above land	surface:	in.				gpm			Code:		
If casing height is less			Pump	installed?	Yes No						
has a variance been a		s No	Water	well disinfe	ected? Yes N				orm Complet		
*variance not require or environmental rer					(mm/dd/yy):				No Permi		
Casing type:			Date	nsimected (			I		:		
Blank casing interval:	ft. to	ft.	Aquif	er, if known	::		# of borel	ioles:	# of dewater	ing wells:	
Blank casing diameter:	in.		LITHO	LOGIC LOG	i						
Casing joints:			FRO	и то	LITHOLOGY	NTERVALS					
Weight:	_lbs/ft.										
Wall thickness or gau	ge no.:										
Blank casing interval:	ft. to	ft.									
Blank casing diameter:	in.										
Casing joints:											
Weight:	_lbs/ft.										
Wall thickness or gau	ge no.:										
Grout interval:ft	t to ft										
Grout material:								-			
Grout interval: ft											
Grout material:			COMM	ENTS							
Grout material.											
Screen / perforation mater	rial:										
Screen / perforation open			CONTE	RACTOR'S	OR LANDOWNER	S CERTIFICATION	N				
Screen / perforation interv					was constructe			nurcuant to	the stated w	nter well	
Fromft. to							•	-			
Slot size un					ense and was con	•		•			
From ft. to				•	knowledge and b			•			
Slot size un					ness name of						
Gravel pack intervals:			Kans	as Water V	Vell Contractor's	License No	u	nder the au	thority of th	e designa	ated
-	Graval size	.	perso	n as defin	ed in K.A.R. 28-	30-2(j) and sign	ed and certi	fied by the 6	electronic sig	gnature o	f the
Gravel pack not used: From ft. to		in	-		son at its submitt	-			·		
		.			VATER WELL OW	<u> </u>	ne for vour rea	cords. Fee of	\$5.00 for each	constructe	ed well
Gravel pack not used:		in	23114 01			EPARTMENT OF	•				
From ft. to	π.			Bureau	of Water, Geology					2-1367	



				HTW E	RILL	ING	LO	G				HOLE	NO. 47MW056	
1. COMPAN	NY NAME E	Burns & M	cDon	nnell	2,	DRILLING	SUBCONT	RACTOR RA	ZEK	ENV., Inc		SHEE OF 1	T 1 1 SHEETS	
3. PROJEC	<sup>T</sup> SF	AAP			·		4. LOCA	rion SWI	MU 4	47		10' '	TOILLIO	
5. NAME O	F DRILLER	T. Poulte	r				6, MANU	FACTURER'S D	ESIGNA	ATION OF DRILL	GeoProb	e 7822	DT ·	
	ND TYPES OF			nch MacroCore	Sampler		8. HOLE	LOCATION	E: 2	155502.80	)30 N: 23	2584.3	850	1
			10-i	nch AR Bit (Su		ing)	9. SURF	ACE ELEVATION	!	924.99 f	t amsl			7
		<u> </u>		5/8-inch HSA	n bit		10. DATE	STARTED	10/3	0/24	11. DATE COM	LETED	11/7/24	$\dashv$
12. OVERB	OVERBURDEN THICKNESS 22.0 ft				15. DEP	TH GROUNDWA	TER EN	ICOUNTERED	19.0 ft l	ogs		1		
13. DEPTH	B. DEPTH DRILLED INTO ROCK 65.0 ft				16. DEP	TH TO WATER A	ND EL	APSED TIME AFT	ER DRILLING COI		.76 ft btoc	1		
14. TOTAL	4. TOTAL DEPTH OF HOLE 87.0 ft					17. OTH	ER WATER LEV	EL MEA	ASUREMENTS (SF			.76 11 0100	1	
18. GEOTE					STURBED	19	TOTAL NUM	BER OF	CORE BOXES	NA			$\frac{1}{2}$	
20. SAMPL					METAL	.S	OTHE	R (SPECIFY)	OT	HER (SPECIFY)	OTHER (SI	ECIFY)	21. TOTAL CORE	
	NA												RECOVERY NA %	
22, DISPOS	sition of Ho	DLE	F	BACKFILLED	MONITORING 047MW	•	OTHE	R (SPECIFY)		signature of in . Woodlan	d ()	Va	M	
ELEV,	DEPTH		DESCR	IPTION OF MATERIALS		FIELD 8	L CREENING SULTS	GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE NO.	BLOW COUNTS		REMARKS	١.
а	b	CII T with		MH, dark grayis	h brown	<del> </del>	d D.O PID	е		ſ	g	DP @	h HSA @	Ł
			), dan	np, stiff consister		LEL =	0 20.9	NA		NA	Recovery	0850	0935	E
	=	non place	<b>,</b> .				0.0						/24 - 1320	F
	1						0.0					dril	egin HSA ling w/ 10 3-inch bit	E
1	] =			•								. 5/6	5-INCH DIL	E
							•							E
	=													E
	2	 Clay, with	silt, C	 CL, very dark gra	 y (10YR		0.0							F
				d consistency, m oxidation reddish										E
	-	5YR 5/3)									4/5			E
														E
	3-						0.0							E
	_ =													F
	=													E
	4_=						0.0			,				E
	]						0.0							F
													•	E
	=													F
			1											E
MOK F	ORM EE		PROJE	<sup>ECT</sup> SFAAP - S	WMU 47						HOLE NO.	0471	1W056	

MRK JUN 89 55

		HTW DRIL	LING LC	)G			HOLE NO.	5MW056
PROJECT	,	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 2 OF 11 SHEE	
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS g		MARKS h
		Clay, with silt to very fine sand, silt, CL, very dark gray (10YR 3/1), damp, hard consistency, medium plasticity, trace oxidation reddish brown 5YR 5/3)	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9 0.0	NA	NA	Recover	y 0854	0947
	6 -		0.0			5/5		
	7 -	gray (10YR 6/1), moist, very stiff consistency	0.0					
	8 -		0.0					
	9 -		0.0					,
	10		$BZ = 0.0$ $LEL = 0$ $O_2 = 20.9$ 0.0				0901	0959
	11 -		0.0					
	12 -		0.0			5/5		
	13 -	- - - - - - - - - - - - - - - - - - -	0.0					
	-	PROJECT				THOLE		

a	DEPTH b	SFAAP - SWMU 47	INSPECTOR	S. Woodland		1	HOLE NO. 047N	
a			C. Woodiana				SHEET 3 OF 11 SHEET	S
		DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 6	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REM	ARK6 h
		Clay with silt to very fine sand, CL, yellowish brown (10YR 5/4), moist, very stiff consistency, medium plasticity, trace oxidation reddish brown (5YR 5/3).	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recover 5/5		·
	14 —		0.0					
	15		BZ = 0.0 LEL = 0 $O_2 = 20.9$				0907	1010
	16		0.0					
-	17	SAND, trace fines, yellowish gray (5Y 7/2), damp, fine sand, poorly graded, trace oxidation reddish brown (5YR 5/3).	0.0			5/5		,
1	18		0.0					
	19 -		0.0					
2	20		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				0917	1022
	21					4/4		
		medium gray (N5)						

		HTW DRIL	LING LC	)G			HOLE NO. 047MW056
PROJECT	•	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 4 OF 11 SHEETS
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS g	
		SAND, trace fines, medium gray (N5), damp, fine sand, poorly graded, trace oxidation reddish brown (5YR 5/3).	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recover	
	22 _	wet				4/4	
	23					,,,	
	24	SHALE, dark yellowish orange (10YR .6/6), thinly laminated					0917 DP Refusal @ 24.0 ft
	-	LIMESTONE, medium gray (N5), fresh.					0935 Begin HSA Drilling w/ 10 5/8-inch bit 11/1/24 - 1408
	25						HSA Refusal @ 24.0 ft  1436 - Begin AR drilling w/
	26	·					6-inch bit
	27 -	SHALE, medium gray (N5)					
	28 —		BZ = 0.0				0846
	29 _		LEL = 0 O <sub>2</sub> = 20.9				
		PROJECT				HOLEN	

		HTW DRIL	LING LC	)G			HOLE NO. 047MW056
PROJECT		SFAAP - SWMU 47	INSPECTOR	S. Woodland		i	SHEET 5 OF 11 SHEETS
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 6	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	
		SHALE, medium gray (N5)	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recover	
	31	1453 - 11/1/24 1454 - 11/1/24				NA	1328 - Stop AR drilling @ 31.0 ft bgs
	32-						1410 - Set and grout in 8-inch Sch. 40 surface casing at 24.0
	33		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				End
	34						
	35	LIMESTONE, medium gray (N6), fresh					
	36 -					·	1500 - 11/1/24 1502 - 11/1/24
	37						
	38		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				

	***************************************	HTW DRIL	LING LC	G			HOLE NO. 047MW056
PROJECT	`	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 6 OF 11 SHEETS
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 8	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	
	-	LIMESTONE, medium gray (N6), fresh	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recove	
			02 = 20.3			NA	
	40 -						
	41 –						1515 - 11/1/24
	41-						1517 - 11/1/24
1							
	42 _						
	-						
	43	·					
	=		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				
	44 _						
	-		,				
	45 –		:				
	-						
	-		_			•	1532 - 11/1/24
	46 –						1533 - 11/1/24
	-						10/31/24 @
	47						1115 Stop AR Drilling
	-						11/1/24 @ 1010 Off-set 10.0 ft. south
	-						1320 Begin drilling

		HTW DRIL	LING LC	G			HOLE NO. 047MW056
ROJECT	•	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 7 OF 11 SHEETS
LEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTE g	
		LIMESTONE, medium gray (N6), fresh	BZ = 0.0 PID LEL = 0	NA	NA	Recove	
	-		$O_2 = 20.9$				
	-					NA	
	49 –						
	-						
							}
	-						
	50 –						i i
	-						.
	-						
	51 _						1545 - 11/1/24
	-		BZ = 0.0 LEL = 0				1545 - 11/1/24
	_	1	$O_2 = 20.9$				
	-	-1 -1 -1					
	52 _	SHALE, black (N2), fresh				}	
	-						
ļ		- - - -					
	50	1 - -					
	53 _						
	_						
		- - -		'			
	54 –						
	-	-					
	-	· ·					
	55 –						
	-	-					
	-	-					
į	56 _	- -					1552 - 11/1/24
	JU	· - -	BZ = 0.0 LEL = 0				1553 - 11/1/24
	-	-	$O_2 = 20.9$				
		-					
	-	-	}				

		HTW DRIL	LING LO	)G			HOLE NO. 047MW056
ROJECT		SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 8 OF 11 SHEETS
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 6	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	
	58		BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recove NA	
	59						
	60	LIMESTONE, medium light gray (N7), fresh					
	61		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				1603 - 11/1/24 1604 - 11/1/24
	62						
	63 -					·	
	64		·				
	65	SHALE, black (N2), fresh					
							1618 - 11/1/24

		HTW DRIL	LING LC	)G			HOLE NO. 047MW056
PROJECT		SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 9 OF 11 SHEETS
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 8	ANALYTICAL SAMPLE NO.	BLOW COUNTS g	
		SHALE, black (N2), fresh	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recover	
	67 –					NA	
	68						
	-						
	69						
	70	SHALE, medium light gray (N7) ,fresh					
	71		BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				1622 - 11/1/24 1624 - 11/1/24
	72						
	73 –					•	
	74						
	-						

		HTW DRIL		)G			HOLE NO. 047MW056 SHEET 10
PROJECT	•	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 10 OF 11 SHEETS
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 6	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	
		SHALE, medium light gray (N7) ,fresh	BZ = 0.0 PID LEL = 0 O <sub>2</sub> = 20.9	NA	NA	Recover	у
						NA	1000 11/1/04
	76 –		BZ = 0.0				1628 - 11/1/24 1628 - 11/1/24
			LEL = 0 $O_2 = 20.9$				
	77 –						
	-	1					
	-						
	78 _						
	-	1					
	79 _						
	-						
	- -						
	80	·					
	-						
	81 –	- - - -					1635 - 11/1/24
	-	- - - - -	BZ = 0.0 LEL = 0 O <sub>2</sub> = 20.9				1636 - 11/1/24
	-					· 	
	82 -						
	-	*   -  -  -					
	83 _	LIMESTONE					
	-	LIMESTONE					
		PROJECT OF A A F				HOLEN	

ND 0 15			ILLING LO				HOLE NO. 047MW	056				
PROJECT	•	SFAAP - SWMU 47	INSPECTOR	S. Woodland			SHEET 11 OF 11 SHEETS					
ELEV.	DEPTH b	DESCRIPTION OF MATERIALS C	FIELD SOREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. 0	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKE h	;				
		LIMESTONE	BZ = 0.0 PID LEL = 0 $O_2 = 20.9$	NA	NA	Recover	у					
			-			NA						
	85 <del>-</del>											
	-				·							
	86 —	·					11/1/24 - 1 Stop AR					
		AR Stop @ 86.0 ft	0950 Pagin D		<del> </del> 30/24							
	87	Construct Monitoring Well	0935 - Begin H 1035 - HSA Re 1142 - Begin A	P probing. usal @ 24.0 ft b SA drilling w/ 1 fusal @ 24.0 ft R drilling w/ 6-in drilling @ 31.0	0 5/8-inch k bgs. nch bit.	oit.						
	88	·	1300 - Begin re 1328 - Stop AF 1410 - Set and	eam borehole was drilling @ 31.0 grout in 8-incht 24.0 ft bgs.	ith 10-inch oft bgs.		•					
	89		0850 - Begin A 1030 - Stop AF bit. Whi 1115 - Reset s continui	grout 19.0 ft bgs R drilling with 6 R drilling at 47.0 Ie tripping out, s urface casing a ng to enter bore casing and inst	S-inch bit @ oft bgs. Tri surface cas nd continue ehole. Will a	p rods to ing was c e drilling. attempt to	clear drill dislodged. Water o pull					
	90 -		6-inch c 1000 - Ream b entering	11 to pull 8-inch s liameter casing porehole w/ 6-in borehole below n and off-set 10	ch AR drill I w surface c	bit. Wate						
	91		1320 - Begin H 1408 - HSA re 1436 - Begin A 1644 - Stop AF 1715 - Constru 1800 - Backfill	ISA drilling with fusal @ 24.0 ft l .R drilling w/ 6-i R drilling @ 86.0 Ict Monitoring W original boring	10 5/8-inchogs. Use Handon bit and of the best of the	SA as su 24.0 ft.						
	92					kfill with b	pentonite					