20200

Location NW % SE % Sec	13 Twp 2N Rg 8E	Well Owner: United States Air Force	
		Business Name:	
County	North	Address: 2103 Scott Drive	
Pennington		City, State, Zip: Ellsworth AFB	SD 57706
HW080102		WELL LOG: MWO80102	DEPTH
		FORMATION	FROM TO
Please mark well W location with an "X"	E	See attached drilling log for	0 29'
iocason maran X		SB080108	
Well Completion Date			
Ĺ			
9/4/2008	4 3 80		
ř	← 1 Mile — →		
Distance to nearest potential pollution source	e (Septic tank, abandoned well, feed lot, etc.)		
? ft. from Unknown	(identify source)		<u> </u>
PROPOSED USE:			<u> </u>
Domestic/Stock Municipal Industrial	☐ Business ☐ Test Holes ☐ Institutional ☐ Monitoring well		42.4
METHOD OF DRILLING:	C. C	STATIC WATER LEVEL	16.4 FEET
4.25" I.D. hollow stem auger		If flowing: closed in pressure	PSI
		GPM flow through	Inch pipe
CASING DATA: Steel	Plastic ✓ Other	Controlled by Valve Reducers Other	
If other describe Schedule 40 pvc		Reduced flow rate	GPM
PIPEWEIGHT DIAMETER FROM	TO HOLE DIAMETER	Can well be completely shut in?	
LB/FT 2.00 IN + 2.8 F	FT 12.0 FT 8.50 IN		
LB/FT IN F	FT FT IN	WELL TEST DATA:	
	<u>-T FT IN</u>	Pumped Describe: Unknown	
GROUTING DATA:		Bailed	
Grout Type No. of Sacks Grout We Cement Li	ight From To b/gal 0.0 Ft 8.0 Ft	Other	
	b/gal Ft Fi	T1 Pumping Level Below Land Surface	
Describe grouting procedure		Ft. After Hrs. pumped	GPM
Mixed and tremied.		Ft. After Hrs. pumped	GPM
		If pump installed, pump rate:	GPM
SCREEN: Perforated pipe	Manufactured		
Diameter 2.00 Inches Material Schedule 40 pvc	Length 15.0 Feet	REMARKS	
	12.0 Feet to 27.0 Feet	┥	
Other information No. 16-30 silica sa	.nd from 10 to 29.		
		This well was drilled under license #	678
WAS A PACKER OR SEAL USED?	✓ Yes No		076
If so, what material? 3/8" bentonit	e pellets	And this report is true and accurate. Drilling firm: American Engineering Testi	na Inc
Describe packer(s) and location	401		ng, mo.
Hydrated bentonite from 8' to DISINFECTION: Was well disinfected up		Signature of License Representative:	,
Yes, How?	zon winipiduoi i:	1 Byron & Schul	
Lab sample sent to for No, Why Not	?	Signature of Well Owner on Equitable Property Holder:	
water quality analysis	Monitoring Well	The state of the s	
		for soul	
		Date: 9/15/08	
		11000	

HT	RW	DRILLING LOG	(CONTINU	ATION SHE	-т)		HOLE NUMBER	7
PROJEC	EIL	SWORTH AFBIACC 4-BOX PIBC		ie Od	legaan	X	SRO80108 SHEET SHEETS	-
ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	SAMPLE NO.	BLOW	C OF 3	-
		Grass Surface		(e)	(0	(g)	(h)	┢
	/ <u> </u>	Silt (ML), some gravel	55=0				0-41	E
	=	Silt (ML), some gianal (crusted limestone), brown, some rootlets 0-1; dry					R= 18" /48"	E
	2-	Fill	*		:		7-10/18	E
	h _=		22=0			-		E
	ľ =							<u> </u>
	4-					•	4-9'	E
		Sitty Clay (CL), brown, Some grave, law plast.,					R= 46"/60"	F
	5 <u>-</u>	dry Fill	55=0	i			K- 46 160	E
	=]]	ļ			F
	_ ط _	Gravel (GW), crushed linestone, dry fill					•	E
	\ <i>\</i>		-		·			E_
	0 =	Clay (CL), olivebram trace gravel, trace	55=0.2			-		E
	0 =	Shale, mod plast, moist]				<u> </u>
	9-	<u>}</u>		·				E
	_	same as above	•					F
	10 <u> </u>		55=0.4				9-14	E_
	₁₁ _=				:		R= 50"/60"	E
]' =		55=0		 		, , , , ,	E
	12-	Shale (CH), dark gray		-	1			<u></u>
	الما	and grayish brown, some Clary high plast, highly	22=38					E
	ソ =	fractured, light gray]			-
	14=	staining starting at (2)	ļ				patroleumodor	E
	\	Same at about					14-19'	F
	13-	2" nodule at 15"	55=753					E_
ł	116=	moist to wet 16-17'					K= 46"/60"	E
	=	·						E
	17-	moist 17-19, some						E
	10	orangish staining	55 = 38				petroleum odor	E
	=	,				1		E
	19-	<u>-</u>						E
	3.0	same as above, moist						F
PRO.	ECT 1	Isworth AFB/ACC A	-la Co	DOC		HOLE NO.		<u> </u>
ENG	FORM	5056-R, AUG 94	Tr/JK	IPC			ROSO 108 (Proponent: CECW-EG	_

DJECT	DRILLING LOG	(CONTINU	ATION SHE	ΞΤ)		HOLE NUMBER SROR 0 108 SHEET SHEETS
EV. DEPTH	DESCRIPTION OF MAYERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW	3 of 3
a) (b)	Shale (CH), dark gray to	(d)	(e)	SAMPLE NO.	(g)	REMARKS (h)
\. =	gray, highly fractured	\$5=445				19-24
₽ -	gray, highly fractured high plasts, wet 20-22	21				R= 50"/60"
						petroleum odor
						perroceum odor
12 =						
]3-	less fractured	55 = 3.4				
124-				!		
[]	some as above		·	i	-	24-29
25-	wet 24-27'					R= 52" /60"
=						N- 54 /60
46-	·					
1 =			 			
4)-	,					
	moist 27-29'				-	
₹8- <u>=</u>	·	·			<u> </u> 	
29=						
1 =	End of boring a	tha'				
30 =	Size of Doving a	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
] =	Place MW080102				ļ	
=						-
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-=						
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=	1			1		
				1		
ROJECT					HOLETIA	
<u> </u>	WMLAFB/ACC 4-5056-R, AUG 94	-Base P	80		HOLE NO.	(0103082