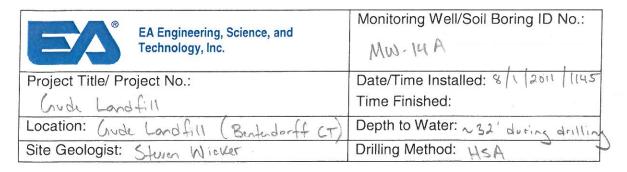
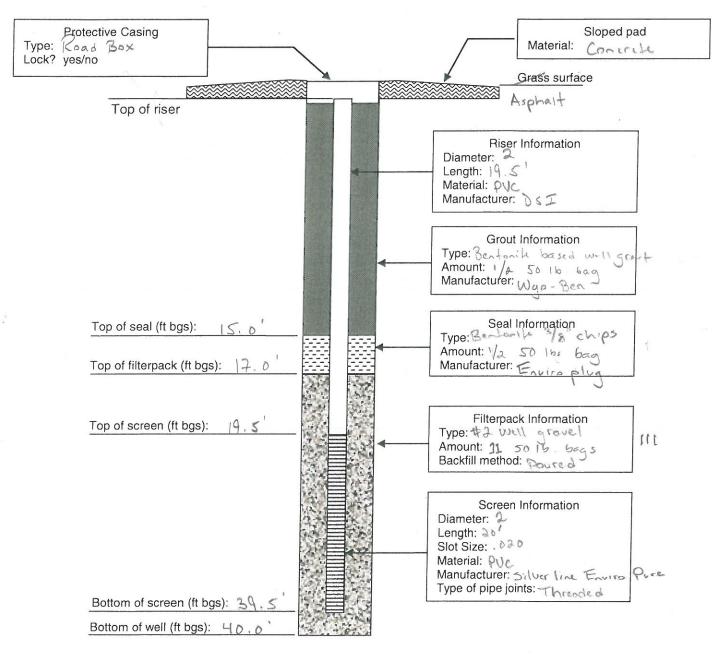
Location: Job. No. Client: 14 A EA Engineering, Science, Boring No. and Technology, Inc. Drilling Method: EA Engineering, Science, and Technology, Inc. AND-14A HSA / Air LOG OF SOIL/ROCK BORING Sampling Method: Sheet 1 of Coordinates: [onlinuous Drilling Surface Elevation: Start Finish Casing Below Surface: Water Level Reference Elevation: Time 8/1/11 Date Reference Desc: Reference USCS Surface Conditions: Sample Inches | Dpth. | Sample | PID Blows Depth Log Type Drvn/In. Csg. No. ppm per in Asphalt Feet Recvrd 6 in. INYRULA 0-6" Bas) 0.0 Gravel 3 0.0 6 0.0 Ц 0.0 8 4 0.0 9 10 YR 4/4 SAME 10 ph. 0.0 104R 8/1 11 Ar. - 1.4 solt F. n SAND 75 mod loose 0.0 12 4 litt - some clay 13 14 0.0 15 SAME 16 4 17 poorly serted a rave 0.0 18 5 0.0 19 16 0.0 20 SAME 5 Steven Wicker Date: Logged by: chard Chism Driller: **Drilling Contractor:**

		EA Er	ngineerin	a. Sci	ence.				Job. No.	Client:	*		Location:	
			Technol	-					Drilling Metho	d:	-		Boring No.	
EA Enginee	ring, Science logy, Inc.			09),						Harm	A.F	7	MW-14	A
and lechno	llogy, Inc.	L	OG OF S	OIL/R	оск во	RING			Sampling Met					89
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Referen	ce Desc:			-					Date				8/1/11	
									Reference				01.1	
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<u> </u>						41			-)	2		
Logged b	v.		San	1						Date:	8/1/11			
Logged b	y ·		JUN							Date	0/1/1			
Drilling Co	ontractor	: .	Crude		mw-1	43				Driller:	Chad C	him		

RECORD OF MONITORING WELL CONSTRUCTION (FLUSH MOUNT)





		FA Fr	ngineerin	ıa. Sci	ence.				Job. No.	Client:			Location: 14 B
			Technol						Drilling Metho	q.			Boring No.
EA Enginee	ring, Science logy, Inc.		1 00111101	ogy, 11	10.				HSA /	Air Ham			MW-14B
and Techno	logy, Inc.	1.0	OG OF S	OIL/R	OCK BO	RING		40	Sampling Met		102.1		70100 110
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	ce Desc:							-	Date				8/1/11/8/2/11
T COOLON	00 D000.							-	Reference				8/1/11/8/2/11
Sample	Inches	Doth.	Sample	PID	Blows	Depth		LUSCS	Surface Cond	itions:			
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	2/1.8			NO.	3	10			SAME -	Sand	lons (10 Yik	(7/1)	at 10
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Drilling Co	ontractor	: .	Sur	linn	-				1	Driller: _	Chad Ch	ism	

	A.		ngineerin						Job. No.	Client:			Location: (식용	
			Technol	ogy, Ir	nc.				Drilling Metho				Boring No.	
EA Enginee and Techno	ring, Science logy, Inc.								The second secon	tir Wom	mes		NW)-	1413
		L	OG OF S	OIL/R	OCK BO	DRING			Sampling Met	hod:				_
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	Elevatio							_		, ,	-			illing
	Below Su								Water Level				Start	Finish
	ice Eleva								Time	-			1 ,	11
Referen	ce Desc								Date				8/1/11	8/2/11
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	-,-			0.0	9	26				1	,			
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	A °	EA Er	ngineerin	g, Scie	ence,				Job. No.	Client:			Location:	
		and	Technol						Drilling Metho	d:	7		Boring No.	
EA Enginee and Techno	ring, Science logy, Inc.	в,							HSA A	IT HON	Tung		Wn3-1	4 B
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Type	Inches Drvn/In.		Sample No.	ppm	Blows per	Depth in		Log	Surface Condi	tions:				
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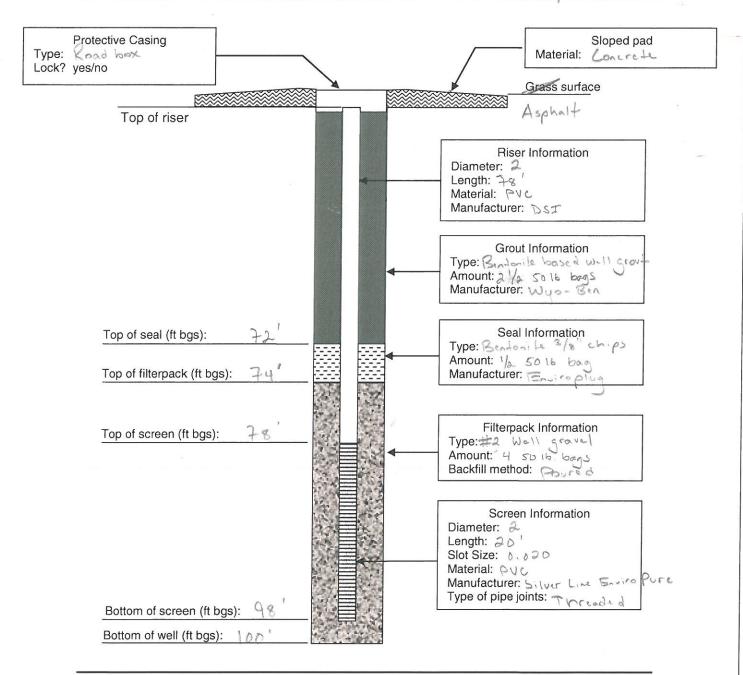
Para la		EA Er	ngineerin	g, Sci	ence,				Job. No.	Client:			Location:	
		and	Technol						Drilling Metho				Boring No.	1112
and Techno	ring, Science logy, Inc.	3,	00 OF 0	OII /D	OCK BO	DING					amost		WM.	140
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	ce Desc:								Date				8/1/11	8/2/11
									Reference					, , , , , , , , , , , , , , , , , , ,
	Inches		Sample		Blows	Depth			Surface Cond	itions:				
Type	Drvn/In. Recvrd	Csg.	No.	ppm	per 6 in.	in Feet		Log						
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D.::III: C			Sum	1.						Driller:	Chad C			
Drilling Co	ontractor	٠.	JUM	mit						Dillier: -	Lhad Cl	A 150 M		

No.						×				190-000		
	VO°	EVE	ngineerin	a Sci	onco	Auroi 2			Job. No.	Client:	510 H	Location: MW-148
			Technol						Drilling Metho	d:		Boring No.
EA Enginee	ring, Science logy, Inc.	e,	Como	ogy, n	10.				125A /	Air Ha	mmes	MW-14B
and Techno	ology, Inc.	L	OG OF S	OIL/R	OCK BO	DRING			Sampling Met		an internal internal	
Coordin					20				Cost.	Split S	peen	Sheet 5 of 5
	Elevatio										\	Drilling
	Below Su								Water Level			Start Finish
	ice Eleva								Time Date	-		8/1/11 8/2/11
Kelelel	ice Desc								Reference			0/1/11 0/2/11
Sample	Inches			PID	Blows	Depth			Surface Cond	itions:		
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Deilliaa O	ontroots:		41.	-a. L						Driller:	Chad Ch	
Drilling C	ontractor		700	1000						Dilliel.	Uriad Un	3 11

RECORD OF MONITORING WELL CONSTRUCTION (FLUSH MOUNT)

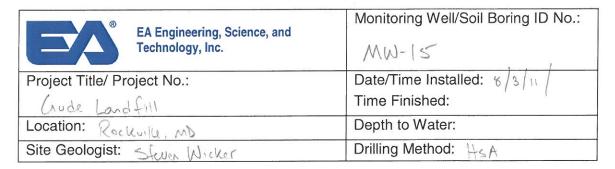
EA Engineering, Science, and Technology, Inc.	Monitoring Well/Soil Boring ID No.:
Project Title/ Project No.:	Date/Time Installed: 8/2/11 Time Finished:
Location: Code Land fill	Depth to Water:
Site Geologist: Steven Wicker	Drilling Method: HSA /Air Hanner

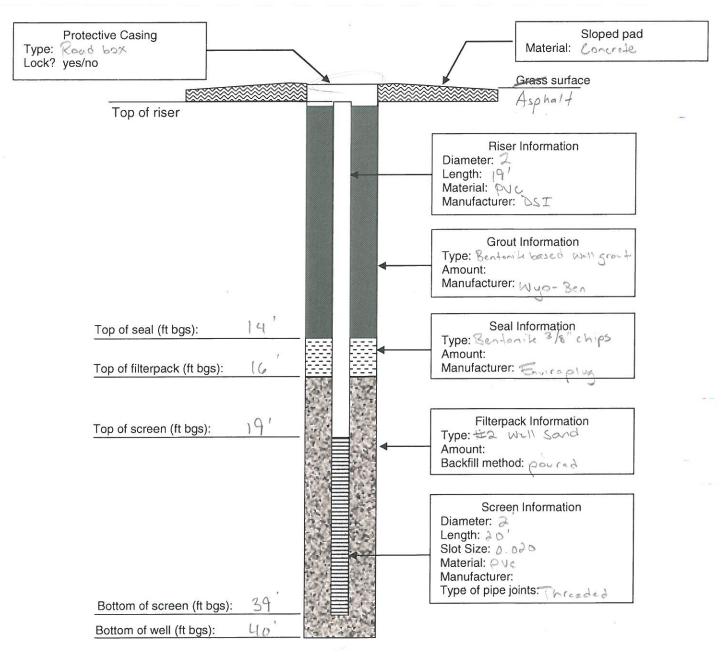


	A°	EA Er	ngineerin	ıa. Sci	ence.				Job. No.	Client:			Location: MW-1	5
			Technol						Drilling Metho	d:			Boring No.	Total Control of the
EA Enginee	ring, Science logy, Inc.			0,,					HSA				MWI	5
and reclinic	nogy, inc.	LC	OG OF S	OIL/R	OCK BO	DRING			Sampling Met	hod:				
Coordin									Cont.	Sp11+ 50	aen.		Sheet 1	
	Elevatio									, ,				illing
Casing	Below Su	urface:	- (Water Level				Start	Finish
	ice Eleva								Time	-			1 1	1 /
Referen	ice Desc	:							Date				8/3/11	8/3/11
Carania	Illeabaa	Dath	Comple	I DID	I Dlaws	Donth		Hece	Reference Surface Condi	itione:				
Type	Inches Drvn/In.		Sample No.	ppm		Depth in		Log	Surface Coridi	IUONS.				
Type	Recvrd	Josy.	140.	ppiii	6 in.	Feet		Log						
1.8	rtoovia				0 1111	. 551			FILL -	Acolonis	(0-6")		7	
A.mided						1	Н		1 5	FISHER	60.0			
Tr.									10 VR 4/4	Sami	SILT	A grove	1 14.	e low
						2			FIL		3	V	/	mand
										1				
						3								
					\vdash	,	\vdash				*		100-100-100-100-100-100-100-100-100-100	
-						4	\vdash							
						5	-				3000 - 4000 - 4000 - 1	- 1000	Accessor (N	
	2/				3	Ĭ	\neg		1x VR 5/2	s (LA)	Some	SILL Fr	-114 4	Sand.
	11.8			0.0	3	6			dru	. S+1#	well So	-Lest'		/
					3				J					
				0.0	4	7								
	2/2			0.0	3				SAME	modilid	10/2 7/	, 40.	C FAVEL	
	19			ULU	Ч	8								
				0.0	5	9	_							
-	2/ 1		\vdash	32. 5.00	3	9	-		CANE					
	2/1.5			0.0	ч	10	\exists	5.0	SHWS					
					Lp			•					TW - 72 - 7 - 20-	
				0,0	5	11								
	2/1				Ч				10 VR 5/2	Clare	SILT	4-14	I sand	
	2/2			0.0	5	12				revel J.	Ida -mis	Ly nood	544,1	10.11
				0.0	6	40	_		3-12	1 Lonoll	14 714 NO.	7/1 / 3,	(2)	
	- 1			Urci	8	13	_		INVR W/a	SILT		- I	dr. or	
	2/1.8			0-0		14	-			Clau	med str		12050	dea
	1.4	\vdash	\vdash		- lo	'-	-		1.1011	Sand Sed	[4125] Selvis	t chad	1 2-224 7	7.0
				0.9	8	15		1					W. 25.5(2-0)	
	21.				lo				SAME !	neceosine	clos w/	depth		
	11.5			1.6	8	16			1			1		
				8.0	12	4.7	-							
	\vdash , \vdash			9 1 V	13	17	\dashv				27722			
	2/2			0.0	13	18	-							
	10				16	10	-			73				
				0.0	18	19								
	2/ _				-				SAME .	losee	siere of c	rearl a	1 0 21	n'leas
	115			3.0	13	20			1	4.3	1)		9
				0.0	2.3									
L				0.0	18	21						. 100000		
Logged b	y:		5	leven	Wick	ST.				Date:	8/3/11			
		•		vmn						_	Chad C			
Drilling C	untractor) mm	1+					Driller: _	Luad C	V (a v v)		

		FA Fr	ngineerin	a. Sci	ence.			3	Job. No.	Client:	ė.		Location:	
			Technol	_					Drilling Metho	d:			Boring No.	
EA Enginee	ring, Science logy, Inc.	e,	31	0,,					HSA				MW)-1	5
		LC	OG OF S	OIL/F	OCK BO	DRING			Sampling Met					
Coordin			(-	10					Cont. S	plit spo	SGA		Sheet 2 of	2
	Elevatio					_			Western Leviel	r	1		Drillin	
	Below Su ice Eleva		·						Water Level Time	-	***************************************		Start	Finish
	ce Desc								Date			 	8/3/11/8	5/3/11
1,0,0,0,0	00 2000	•							Reference				0/ 5/13	2[2]11
Sample	Inches		Sample	PID	Blows	Depth		USCS	Surface Condi	itions:				
Туре	Drvn/In	Csg.	No.	ppm		_in		Log			****			
	Recvrd				6 in.	Feet		-	110 =1	111-		- 1	1	
	2/18	12		0.0	6	21	Н		10 YR 5/3		Some.	soft soft	well Socke	
-	11.0			-	8	21	Н		MAN		+ mod	204 4.	MCII DOCK C	`
				0.8	4	22			701	41/4 1 0/2	· (· · · · · · · · · · · · · · · · · ·			
	2/2			,	5				SAME 1	noit -	ented the	1ch on 31	Crans	
V	0 /2			0.0	4	23			1/.	N B AJ	23'			
				1.0	8	24								
	0/			0 10	1	24	\vdash		10 VR 5	la SIL	T 1:4-	Some cl	61 · 4r-1	11
	2/2			0.0	4	25							H corted	
				h a	ч						,			
-	,			0.0	5	26			61.					
	2/2			1.0	5	27	\vdash		SAME				11-11-20	
	1 011				5	21								
				0.0	6	28								
	2/			Λ .	7-				MULTI GO		7/1, 3/5)	SILT	11+- 50N	u
	+/1.5		\vdash	0.0	98	29	\dashv				r - VH clai		of court.	
				0.0	12	30			Wet, a	ned loos	se, will -	dorled.	V	
	2/				6				SAME S	ANDY S	ICT OI	e.l.		
	2/1.8			0.0	9	31)		1			
			7-	0 -	12	00	\dashv			0 YR 5/5			ady SILT	in!
			1 /4	0,0	14	32				less of	ti gravel	mod	51 M - 51	A .
	2/1.8	,	1/1	6,0	12	33			2000	in the intermed	Markal bars	d rock	7	
	/	40	1.6		50/2									
		- 13	7	0.0	1.0	34								
	2/2			0.0	16	25	_		SAME	incressing	timas	.5		
	MA	\vdash		V-V	30/3	35	-				4	-		
					507.5	36		1						
	2/				16				SAME,	ANDRES		ina la	In' throu	ch.
	2/1.4				28	37	\perp		7 6	spoont 1	weathered	bedrock	(c	4
					50/5	38	\dashv			1 1				
						36					****		1 2 20 70	
						39			E L M					
									1					
						40			-					
						41	_					alest remaining to		
					L	41					1 1			
Logged b	y:		Sun	W						Date:	8/3/11			
Drilling C	ontractor		Suc	mil					1	Driller:	chad C	hism		
g O		-	0//											

RECORD OF MONITORING WELL CONSTRUCTION (FLUSH MOUNT)





C 6256 SEQUENCE NO (MDE USE ONLY	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY 574458.
ST/CO USE ONLY DATE WELL CO	IDI ETED Don'th of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
DATE Received MM DD YY	22 40 26	MO 10 0151
8 13 15	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER Fuel Lest name	East Gudofirst name TOWN	Back will p
STREET OR RFD 600	SECTION	LOT
WELL LOG	GROUTING RECORD Yes no	C 3
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box) Y 44	1 2 PUMPING TEST
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
additional sheets if needed) FROM TO bear	ter L	PUMPING RATE (gal. per min.)
Aspholto Fill 0 2	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Brown 1:Ht 2 40	from 48 TOP 52 ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
Frand	(enter 0 if from surface) CASING RECORD	BEFORE PUMPING 17 20 ft.
	types insert ST CO	WHEN PUMPING ft.
	code pelow PL OT	TYPE OF PUMP USED (for test)
	MAIN Nominal diameter Total depth	A air P piston turbine
	CASING top (main) casing of main casing (nearest inch)! (nearest foot)	C centrifugal R rotary O describe
	60 61 63 64 66 70	27 27 below) J jet S submersible
	E OTHER CASING (if used) A diameter depth (feet)	27 27
	G inch from to	PUMP INSTALLED
	AS .	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
	Ğ	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
	insert appropriate STEEL BRASS OPEN HOLE	CAPACITY: GALLONS PER MINUTE
	code below PLASTIC OTHER	(to nearest gallon) 31 35
	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER, PUMP COLUMN LENGTH 41
NUMBER OF UNSUCCESSFUL WELLS: yes no	12 12 30 40	(nearest ft.)
WELL HYDROFRACTURED Y	A 8 9 11 15 17 21 C 2	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	H ² 23 24 26 30 32 36	49 LAND SURFACE
WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED	C 3 R 38 39 41 45 47 51	below below foot)
P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 0 2 1 3 0	LOCATION OF WELL ON LOT
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABO	ND DIAMETER (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENT HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF KNOWLEDGE.	ED 56 60	THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC. NO.1 MGDC63	GRAVEL PACK 27, 50	, (d
tooth	IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	m da -
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	9
LIC. NO. 1 36 D 940	T (E.R.O.S.) W Q	Indevold Y
SITE SUPERVISOR (sign. of driller or journeyman	70 72 74 75 76	•
responsible for sitework if different from permittee)	TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	
	DBILLER	

c 1 6255	SEQUENCE NO (MDE USE ONL)		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1. 2 3 6 (THIS NUMBER IS TO BE PUN			WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY NUMBER
IN COLS. 3-6 ON ALL CARDS	DATE WELL CO	MPI	PLEASE TYPE ETED Depth of Well 1/2	PERMIT NO.
DATE Received	MM2 DD	Y	Y 22 9Q 26	FROM "PERMIT TO DRILL WELL" MO - 10 - 0149
8 13	15	-	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER Gude	Lana		ill a	
STREET OR RFD	last name 600	Ca	est Gude Mod TOWN	ROCK Will &
SUBDIVISION			SECTION	LOT
MWS Not required for o			WELL HAS BEEN GROUTED YEAR N	C 3
		3	(Circle Appropriate Box)	PUMPING TEST
STATE THE KIND OF FORMATIC COLOR, DEPTH, THICKNESS A		ck	TYPE OF GROUTING MATERIAL (Circle one) CEMENT CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	if w	ater	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min.)
Asphalt Fill	0 2		GALLONS OF WATER 35 G	11 15
	20 20		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
17 May 1 SELLE	2 40		from 6 ft. to 6 ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
Frank			(enter 0 if from surface)	
Franch Whethered pock	11 -		casing types CASING RECORD	BEFORE PUMPING 17 20 ft.
whathered	40 70		insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.
rock			code below PL OT	TYPE OF PUMP USED (for test)
7			PEASTIC OTHER	A air P piston T turbine
	70' 100		MÅIN Nominal diameter Total depth CASING top (main) casing of main casing	27 27 other
Rock	70 100		TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary (describe below)
			60 61 63 64 66 70	21 21 21 .
			E OTHER CASING (if used)	jet S submersible 27
			A diameter depth (feet)	
				PUMP INSTALLED DRILLERUNSTALLED PUMP YES NO
			ĈS .	(CIRCLE) (YES or NO)
			G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
T.Oglad			screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
7:11			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
1			insert STEEL BRASS OPEN Appropriate BRANCE HOLE	CAPACITY: GALLONS PER MINUTE
			code below PL OT	(to nearest gallon) 31 35
			PLASTIC OTHER	PUMP HORSE POWER
		_	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH 37 41
NUMBER OF UNSUCCESSFU		_	1,2 88 98	(nearest ft.)
WELL HYDROFRACTURED	yes Y	0	E A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPR		1	C 2	+ above LAND SURFACE
A WELL WAS ABANDONE WHEN THIS WELL WAS C	D AND SEALED		S	below (nearest)
E ELECTRIC LOG OBTAINED			C 3 R 38 39 41 45 47 51	49 foot)
P TEST WELL CONVERTED WELL	TO PRODUCTION		E SLOT SIZE 1 0 2 1 3 0	LOCATION OF WELL ON LOT
I HEREBY CERTIFY THAT THIS WELL ACCORDANCE WITH COMAR 26.04.04			DIAMETER (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR
IN CONFORMANCE WITH ALL CONDI CAPTIONED PERMIT, AND THAT TH	IE INFORMATION PRESEN	TED	OF SCREEN 60 INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
HEREIN IS ACCURATE AND COMP KNOWLEDGE.	THE BEST OF	INI	from to	(MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1 M	Golas	1	GRAVEL PACK 85 98	A BOOK TO THE PROPERTY OF THE
THU K			IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	ATT.
DRILLERS SIGNATURE ON	APPLICATION)		MDE USE ONLY	Individual (5°
LIC. NO.1	60066	ı	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	1
Phanel B.			The state of the s	●
SITE SUPERVISOR (sign. of			70 72 74 75 76	
responsible for sitework if diffe	erent from permittee)		TELESCOPE LOG CASING INDICATOR OTHER DATA	
			ORIGINAL	

C1 6258	(MDE USE ONL		STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 - 3 - 6			WELL COMPLETION REPORT	
(THIS NUMBER IS TO BE PU			FILL IN THIS FORM COMPLETELY	NUMBER 5 7 UU 57
IN COLS. 3-6 ON ALL CARDS			PLEASE TYPE	PERMIT NO.
ST/CO USE ONLY DATE Received	DATE WELL CO	OMPL	ETED Depth of Well	FROM "PERMIT TO DRILL WELL"
MM DD YY	8 3	1	22 20 26	mo-10-0150
8 13	15	-	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
OWNER Gud	o hane	10	Gill .	
STREET OR RFD	last name 600	1	ast Grede first named. TOWN	rack vill P
SUBDIVISION			SECTION	LOT
WELL L	OG \		GROUTING RECORD yes no	C 3
MW (Not required for	driven wells		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
STATE THE KIND OF FORMATION COLOR, DEPTH, THICKNESS	ONS PENETRATED, THE	IR	TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST
COLOR, DEPTH, THICKNESS		G heck	CEMENT CIM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed)	if '	water		
4 1 11 11 1		aing	NO. OF BAGS 46 2 NO. OF POUNDS 45.60	PUMPING RATE (gal. per min.)
Haphalt Fill	02		GALLONS OF WATER 14	METHOD USED TO
	2' 40'		DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMRING RATE
12 round Gilt	, ,		from	WATER LEVEL (distance from land surface)
Brown Silt * Ksand			(enter 0 if from surface)	
7 400-101			casing CASING RECORD	BEFORE PUMPING 17 20 ft.
			types insert ST CO	
			appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.
			code below PL OT	TYPE OF PUMP USED (for test)
			PLASTIC OTHER	A air P piston T turbine
			MAIN Nominal diameter Total depth	27 27 27
			CASING top (main) casing of main casing (nearest inch)! (nearest foot)	C centrifugal R rotary O describe
			62 624 30	27 below)
			60 61 63 64 66 70	J jet S submersible
			E OTHER CASING (if used)	27 27
			A diameter depth (feet)	
1			H inch from to	PUMP INSTALLED
			Â	DRILLER INSTALLED PUMP YES NO
			N I II II	(CIRCLE) (YES or NO)
			G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
			screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,Q) 29
			insert STEEL BRASS OPEN	IN BOX 29. CAPACITY:
			(appropriate code BRONZE HOLE	GALLONS PER MINUTE
			below / PLJ OT	(to nearest gallon) 31 35
			PLASTIC OTHER	PUMP HORSE POWER
	D	-	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH 37 41
NUMBER OF UNSUCCESSFU	JL WELLS:		1201	(nearest ft.)
	yes r	19.	E1 12 30 40	CASING HEIGHT (circle appropriate box
WELL HYDROFRACTURED	Y	V	A 9 11 15 17 21	and enter casing height)
CIRCLE APPROPE	RIATE LETTER		H 2 20 24 25 20 20 20	+ above LAND SURFACE
A WELL WAS ABANDONE	ED AND SEALED		23 24 26 30 32 36 S	(negrest)
F ELECTRIC LOG OBTAINE			C 3 R 38 39 41 45 47 51	below)
TEST WELL SOMMEDTED			E	A LOCATION OF WELL ON LOT
WELL			E SLOT SIZE 1 2 2 3 3	SHOW PERMANENT STRUCTURE SUCH AS
I HEREBY CERTIFY THAT THIS WELL ACCORDANCE WITH COMAR 26.04.04	4 "WELL CONSTRUCTION"	'AND	DIAMETER 2 (NEAREST	BUILDING, SEPTIC TANKS, AND /OR
IN CONFORMANCE WITH ALL COND CAPTIONED PERMIT, AND THAT THE	DITIONS STATED IN THE A HE INFORMATION PRESE	BOVE	OF SCREEN NCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
HEREIN IS ACCURATE AND COMI KNOWLEDGE.	PLETE TO THE BEST O	r MY	from to	(MEASUREMENTS TO WELL)
DDULEDOUG 110 110	GDN-2	1	27 60	and and
DRILLERS IC. NO - M	LIVE	1	GRAVEL PACK IF WELL DRILLED	Mul
DON'T EDG CICKLA TUBE		-	WAS FLOWING WELL INSERT F IN BOX 68 68	, chel
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON	APPLICATION)		MDE USE ONLY	sels B. I Y
LIC. NO. 1	60066	2.	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	Indianola Rel
1111			(E.n.o.s.) W Q	NO ®
Mad Whe	in		. 70 72	(X &
SITE SUPERVISOR (sign. of			TELESCOPE LOG 74 75 76	
responsible for sitework if diffe	erent nom permittee)		CASING INDICATOR OTHER DATA	

Stort 1140 STOP

Well Designation	MW-14A	Project Name	(mdz
Condition	Flush	Project Location	Porkylle
Well Grout Date	8/1/2011	Developer Initials	Saw
Well Installation Date	8/1/2011	Well Development Date	8/4/2011
Gauge Date	8/4/2011	Gauge Time	1135
Sounding Method	water level indicator	Measurement Ref.	Top of PVC
Stick up/down (ft)	Tluch	Well Diameter 2	4 in.
Static Water Level		Screen Length	20'
Development Time			9
Surge Device	What pump		
Weather	clear, 80s		

Well Volume Determination:

A.	Well Depth	38
B.	Depth to Water	19.0

C. Liquid Depth (A-B) (ft)

18.60

D. Well Volume/ft

3.04

E. Liquid screen length (ft)

	Beginning	1	2	3	4	5
Surge Time (min)	0	5*	5*	0	D	0
Pump Rate (gpm)	5 -		Total Residence of the Control of th			>
Volume purged	13.0	230	~3.0	~3.0	26.0	~6.0
Turbidity (NTU)	921.2	2645.7	2662.7	2637.1	2640.1	2045,7
Temp oc	18.21	16.01	15.88	15.82	15 83	16 04
cond. (us len)	823	933	605	513	404	420
ORP	169.3	189.2	197.3	170.4	169.8	175.6
Do (male)	39.89	42.04	39.92	36.94	35.70	33.18

Total volume of water removed (gal):	
Estimated Recharge Rate:	
Depth to sediment before development:	Depth to sediment after development:
Total Surging Time:	
Development Description: * Soge block not	aucilable, over prop + surge with
What pump, Well is Very forbid	Visibly clearing after 6 W/Vs



Well Designation Condition Well Grout Date Well Installation Date Gauge Date Sounding Method Stick up/down (ft) Static Water Level Development Time Surge Device Weather MW-14 A Elish Will Installation Date S/1/11 Water level indicator Flush Lish Lish Lish Lish Lish Static Water Level Development Time Surge Device Weather			<u>r</u>	Project Name Project Location Developer Initial Well Developme Gauge Time Measurement Re Well Diameter Screen Length	ent Date of. Top o	de kville N
Well Volume Determ	nination:					
A. Well DepthB. Depth to WaterC. Liquid Depth (AD. Well Volume/ftE. Liquid screen lend	F (196) 187)					
	Beginning	1	2	3	4	5
Surge Time (min)	0	No.	***************************************			Name .
Pump Rate (gpm)	50pm-	- Mari				>>
Volume purged	~6.0	~ 6.0	26.0	260	~ 6.0	~6.0
Turbidity (NTU)	1404.1	1212.3	485.2	151.1	75.1	100.3
Tempoc	16.01	16.12	16.03	110.13	16, 25	16,20
cond (us/an)	404	398	353	375	306	327
ORP	183.8	189.7	205.9	205.7	215.0	211.8
Do (my/L)	31.86	30.14	27.02	29.12	20.90	20.13
Total volume of water removed (gal): Estimated Recharge Rate: Depth to sediment before development: 38.65 Depth to sediment after development: 39.10						
Total Surging Time: _						
Development Descrip	tion: Well ~ 5 mins	45 (1020) WELL 1235)	West day	after 16 v	to around



Start 1330 Stop 1415

Well Designation	MW-14B	Project Name	Gude
Condition	Flush	Project Location	Rockeille
Well Grout Date	8/3/11	Developer Initials	Saw
Well Installation Date	8/3/11	Well Development Date	8/4/11
Gauge Date	8/4/11	Gauge Time	1320
Sounding Method	water level indicator	Measurement Ref.	Top of PVC
Stick up/down (ft)	Flush	Well Diameter	A in.
Static Water Level	21.60	Screen Length	20
Development Time	45 mins		
Surge Device	What pump		
Weather	Clear 80s		¥

Well Volume Determination:

A.	Well Depth	98.00
В.	Depth to Water	21.60
C.	Liquid Depth (A-B) (ft)	-76.40
D.	Well Volume/ft	12.45

E. Liquid screen length (ft)

-	Beginning	1	2	3	4	5	6
Surge Time (min)	U	2*	5*	D .	0	0	0
Pump Rate (gpm)	Sapon	5		U			5
Volume purged	~ 12.50	~12.50	~12.50	~ 12.50	1.12.50	~12.50	
Turbidity (NTU)	550.2	330.3	72.0	51.3	26.3	25.4	25.7
Temp oc	15.98	15.09	14.89	14.94	1500	15.44	15.26
cond (mo/cm)	97	92	89	89	89	92	91_
ORP	201.0	200.0	200.3	201.2	200.9	204.9	203.7
Do (nole)	12.32	12.73	12.71	12.44	12.58	12.21	12.38

Total volume of water removed (gal): Estimated Recharge Rate: Depth to sediment before development:	Depth to sediment after development: 98.00
Total Surging Time: 10 Min	
whole pump very clear after 3 wvs where 7 wvs turbidity stady or development after 7 wvs	grading have debilized



Stat 0450 STOP 1050

Well Designation	1/11/10-15	Project Name
Condition	Flush	Project Location Rockwille
Well Grout Date	8/3/11	Developer Initials
Well Installation Date	8/3/11	Well Development Date & / 4 / 11
Gauge Date	-8/4/11	Gauge Time 0950
Sounding Method	water level indicator	Measurement Ref. Top of PVC
Stick up/down (ft)	Flush	Well Diameter 24 in.
Static Water Level	15.05	Screen Length 20
Development Time		
Surge Device	Pump	
Weather	Cleor . 80's	

Well Volume Determination:

A.	Well Depth	39.40
В.	Depth to Water	15.05
C.	Liquid Depth (A-B) (ft)	24.35
D	Well Volume/ft	2 96

E. Liquid screen length (ft)

	Beginning	1	2	3	4	5
Surge Time (min)	0	0	5*	5*	۸	
Pump Rate (gpm)	5 apm					
Volume purged	23.90	13.96	N3:96	13.96	~3.96	23.96
Turbidity (NTU)	2691.7	2675.3	7.9236	26654	2634.5	2013.3
Cond. (us/cm)	268	181	1118	149	136	132
Tenp. oc	17.87	17,290	16.64	11,.87	16,40	16.28
ORP	140.3	78.1	63.	60.1	67.0	73.9
Do (mg/c)	27.08	26.63	25.13	25.60	25.49	25.00

Total volume of water removed (gai):				
Estimated Recharge Rate:				
Depth to sediment before development:	Depth to sediment after development:			
Total Surging Time:				
Development Description: # Surge block not a	vailable will over owne and			
Some with pumps so sidement on	Water Will Indicated			





Well Designation Condition Well Grout Date Well Installation Da Gauge Date Sounding Method Stick up/down (ft) Static Water Level Development Time Surge Device Weather	water level indicator Flush 15.95			Project Name Project Location Developer Initials Well Development Date Gauge Time Measurement Ref. Well Diameter Screen Length Locate Reduct Ref. Top of PVC Well Diameter Screen Length		scholle (in) 4/11 50		
Well Volume Determination:								
A. Well Depth B. Depth to Water C. Liquid Depth (A-B) (ft) D. Well Volume/ft E. Liquid screen length (ft)								
	Beginning	1	2	3	4	5		
Surge Time (min)	0	0	0	0	0			
Pump Rate (gpm)	5 gpm	Sign		Sym	5 2000	Sapm		
Volume purged	~3.96	~ 10	5 com	~ 4.0	5 apm	~4.8		
Turbidity (NTU)	1880,2	457.2	127.9	145.4	120.2	137.7		
cond. (us/cm)	129	107	106	107	112	109		
Temp oc	16 29	16.16	16.28	16.35	16.81	16.72		
020	77.3	85.9	929	124.7	113,4	112.8		
Do (male	26.65	24.14	23.90	26.69	25.43	26.97		
Total volume of water removed (gal):								
Development Description: (lear to the unaided eye at 10 w/s. Well is very year at 11 w/s, Turbidity appears to be Steady acrond 140-120 NTU: (Silty agailer), all alker readings have								