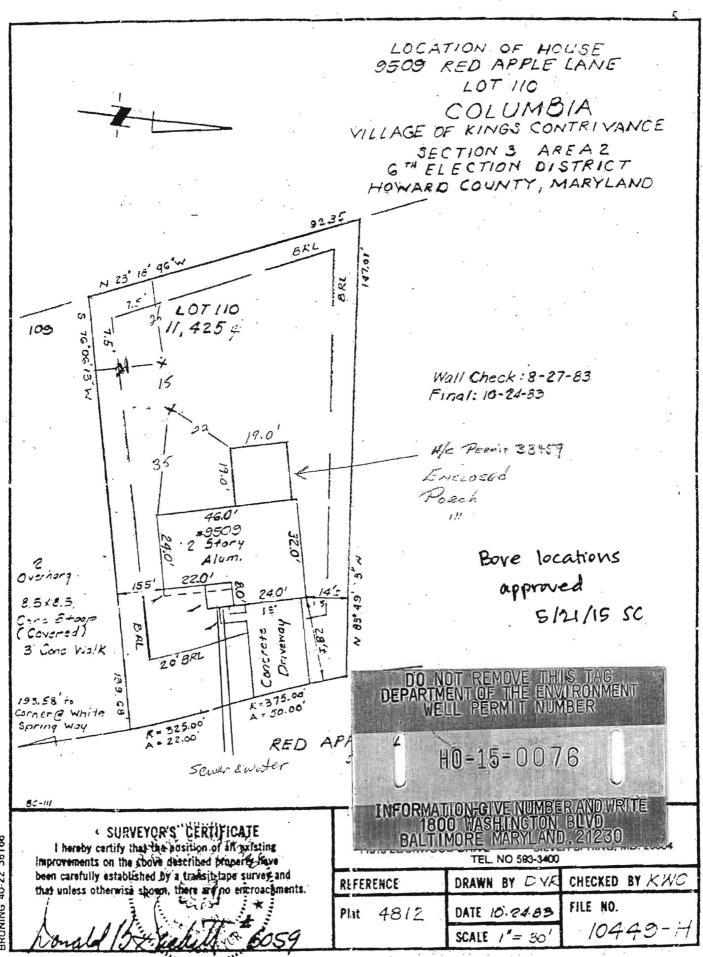
c 1 34456	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3 6 ON ALL CARDS)		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
ST/CO USE ONLY DATE Received MM DD YY  8 13	DATE WELL COMPL	ETED Depth of Well  Y 22 37 26  20 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL"
OWNER Traber, Thomas & Victoria			
WELL SITE ADDRESS lest name 9-09 Ved Apple (n first name TOWN (UMDIA) SUBDIVISION SECTION LOT			
WELL LOG	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Q OPPS GROUTING RECORD YES NO	C 3
Not required for driven wells		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST
STATE THE KIND OF FORMATIONS PENETRATED. THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING  DESCRIPTION (Use FEET check if water		TYPE OF GROUTING MATERIAL (Circle one)  CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)
additional sheets if needed) FF	ROM TO bearing	NO. OF BAGS 45 46 NO. OF POUNDS 45 45 0	PUMPING RATE (gal. per min.)
Tupsoil Amsoil	1 20	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Bin orange Soil 2	10 40	from ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
Small Grand + 4	0 60 -	casing CASING RECORD types	BEFORE PUMPING 17 20 ft.
large Grand 60		insert appropriate code below PL OT	WHEN PUMPING 22 25 ft.  TYPE OF PUMP USED (for test)
mental Rock ?	08 0	MAIN Nominal diameter Total depth	A air P piston T turbine
mid Gry Rock 81	0 360	CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O other (describe below)
Bidanlayous 2	60 980 ~	60 61 63 64 66 70  E OTHER CASING (if used)	jet S submersible
Biolan layous 2 Mid Gry Rode 2	80 370	A diameter depth (feet) H inch from to C A S	PUMP INSTALLED  DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
28 bags x 26 gal = 729	8 94 / 2	N G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
bag	8 9H /37 0 = 1.96	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
	2100	below / PLI OII	CAPACITY: GALLONS PER MINUTE (to nearest gallon)  31  35
a closed yo	SCOPS = 0.98	PLASTIC OTHER	PUMP HORSE POWER 37 41
NUMBER OF UNSUCCESSFUL WELLS:		DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	yes no	E 1	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER  A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  E ELECTRIC LOG OBTAINED		H 2 23 24 26 30 32 36 S C 3 R 38 39 41 45 47 51	LAND SURFACE  (nearest)  50 51
P TEST WELL CONVERTED TO PRODUCTION WELL  I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN		E	LATITUDE 39. 15488
ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		DIAMETER	LONGITUDE 7 4 . SUB 95 (DEFAULT COORD. WGS 84) NOTES:
DRILLERS UC NO. MUD D 53_ 1		GRAVEL PACK	NOTES.
DRILLERS SIGNATURE (MUST, MATCH SIGNATURE ON APPLICATION)		WAS FLOWING WELL INSERT F IN BOX 68 68	
LIC. NO.1 WE 6 097 1		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	
SITE SUPERVISOR (sign. of driller or journeyman		70 72 74 75 76	Front 1
responsible for sitework if differen		TELESCOPE LOG INDICATOR OTHER DATA	39.15489/76.84391



BRUNING 40-22 36166

## HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than 2.5 E(-08) cm/sec. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

