

C1 9516	SEQUENCE NO. (DENV USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS		COUNTY NUMBER	A 38567

DATE Received	DATE WELL COMPLETED	Depth of Well	PERMIT NO.
	040188	22 285 26 (TO NEAREST FOOT)	FROM "PERMIT TO DRILL WELL" H0-81-2740

OWNER	ALTOG... last name first name		
STREET OR RFD	TWOY6 HILLS RD		
SUBDIVISION	SECTION 2	TOWN	DAYTON
		LOT 8	

WELL LOG Not required for driven wells		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		
DESCRIPTION (Use additional sheets if needed)	FEET FROM TO	Check if water bearing
Top Soil	0 2	
Sandy	2 11	✓
Sand Stone	11 15	
MILWA	15 60	
Sand Stone	60 65	✓
MICKA	65 285	

GROUTING RECORD	
WELL HAS BEEN GROUTED (Circle Appropriate Box)	
TYPE OF GROUTING MATERIAL	
CEMENT CM	BENTONITE CLAY BC
NO. OF BAGS 6	NO. OF POUNDS 600
GALLONS OF WATER 36	
DEPTH OF GROUT SEAL (to nearest foot)	
from 0 ft.	to 285 ft.

CASING RECORD	
casing types insert appropriate code below	
ST STEEL	CO CONCRETE
PL PLASTIC	OT OTHER
MAIN CASING TYPE	
Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
6	285

OTHER CASING (if used)	
diameter inch	depth (feet) from to

SCREEN RECORD	
screen type or open hole insert appropriate code below	
ST STEEL	BR BRASS
PL PLASTIC	OT OTHER

C2	
DEPTH (nearest ft.)	
1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
SLOT SIZE 1 2 3	
DIAMETER OF SCREEN (NEAREST INCH)	
from to	

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	
E ELECTRIC LOG OBTAINED	
P TEST WELL CONVERTED TO PRODUCTION WELL	

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "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.	
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DRILLERS IDENT. NO.	273
DRILLERS SIGNATURE	
(MUST MATCH SIGNATURE ON APPLICATION)	
SITE SUPERVISOR (Sign. of driller or journeyman responsible for sitework if different from permittee)	

GRAVEL PACK	
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68	

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
T	(E.R.O.S.)
70	72
TELESCOPE CASING	LOG INDICATOR
OTHER DATA	

C3	
PUMPING TEST	
HOURS PUMPED (nearest hour)	
PUMPING RATE (gal. per min. to nearest gal.)	
METHOD USED TO MEASURE PUMPING RATE	
WATER LEVEL (distance from land surface)	
BEFORE PUMPING	
WHEN PUMPING	
TYPE OF PUMP USED (for test)	
A air	P piston
C centrifugal	R rotary
J jet	S submersible

PUMP INSTALLED	
DRILLER WILL INSTALL PUMP YES NO	
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE	
TYPE OF PUMP INSTALLED	
PLACE (A,C,J,P,R,S,T,O)	
IN BOX - SEE ABOVE:	
CAPACITY: GALLONS PER MINUTE (to nearest gallon)	
PUMP HORSE POWER	
PUMP COLUMN LENGTH (nearest ft.)	
CASING HEIGHT (circle appropriate box and enter casing height)	
LAND SURFACE (nearest foot)	

LOCATION OF WELL ON LOT	
SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)	

B 1	7060	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER 40-81-2740
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		fill in this form completely		
Date Received (APA) 1 2 3 4 5 6 7 8 9 10 11 12 13		LOCATION OF WELL 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		
OWNER INFORMATION 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34		8 COUNTY 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42		
15 Last Name 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55		23 SUBDIVISION 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
Owner 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34		SECTION 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
Street or RFD 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55		LOT 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
Town 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		52 NEAREST TOWN 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
DRILLER INFORMATION Driller's Name 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		77 License No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
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Signature 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		Date 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		NEAR WHAT ROAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
USE FOR WATER (CIRCLE APPROPRIATE BOX) ☒ HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) ☐ FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) ☐ INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) ☐ PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) ☐ TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
APPROXIMATE DEPTH OF WELL 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		COUNTY NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
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METHOD OF DRILLING (circle one) BORED (or Augered) ☒ JETTED ☐ Jetted & DRIVEN ☐ AIR-ROTARY ☒ AIR-PERCUSSION ☐ ROTARY (Hydraulic Rotary) ☐ CABLE ☐ REVERSE-ROTARY ☐ DRIVE-POINT ☐ other _____		DATE ISSUED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) ☒ THIS WELL WILL NOT REPLACE AN EXISTING WELL ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY ☐ THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		CO SIGNATURE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
APPROX. PERMIT NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
SPECIAL CONDITIONS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2740

Location of property (road) TWELVE HILLS RD

Subdivision TWELVE HILLS

Lot 8

Block

Plat

Sec.

Well Driller RALPH MAYNE

Owner

ALTOGETHER LIMITED

Depth of well 285^{ft}

Distance of measuring point (M.P.) above ground 2 ft

Static water level (S.W.L.) below M.P. 6 1/2

I. High rate pumping -- reservoir drawdown

Time pump started 11:45

Pumping rate 10 GPM

Total time 5 min to reach pumping water level 65' ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

[illegible]

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

Howard County Health Department
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Court House Square
Ellicott City, Md. 21043
461-9933

New Installation ☒
Replacement ☐

Receipt # 43184
Date 12-5-88

Name of Installer Kasfner Plumbing & Htg Inc

Telephone 725-5000

License number 1862

Certified Well Pump Installer ☐

Well Driller ☐

Registered Plumber ☒

Name of Property Owner Firetti Builders

Telephone 461-1166

Subdivision Twelve Hills

Lot # 8

Well tag # - - -

Site Address 13006 Twelve Hills Road
Clarksville, MD 21029

Pump

1. Type

a. Deep well jet ☐

b. Shallow well jet ☐

c. Submersible ☒

2. Make Goulds

3. Model # 52807412

4. Capacity 5 GPM

5. Pump exceeds well capacity Yes ☐ No ☒

6. If Yes, is low pressure cutoff switch installed? Yes ☒ No ☐

7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ☐ Cable guards ☒ Other ☐

Motor

1. Horsepower 3/4

2. RPM ☐

3. Voltage ☐

a. 110 ☐

b. 220 ☒

Pitless Adapter

1. Make Hanover

2. Model # ☐

3. Depth 3 ft.

Tank

1. Capacity 42

2. Pressure relief

valve? yes

Piping

1. Type 1/60 LBS

2. Size 1"

3. NSF and/or BOCA

Code approved yes

4. Depth of supply

line 3 ft.

Well data

1. Depth ☐ ft.

2. Yield ☐ GPM

3. Static water

level ☐ ft.

4. Will water supply

be disinfected by

installer? no

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: [Signature]

Date: Dec 5, 1988

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

N50°28'00"

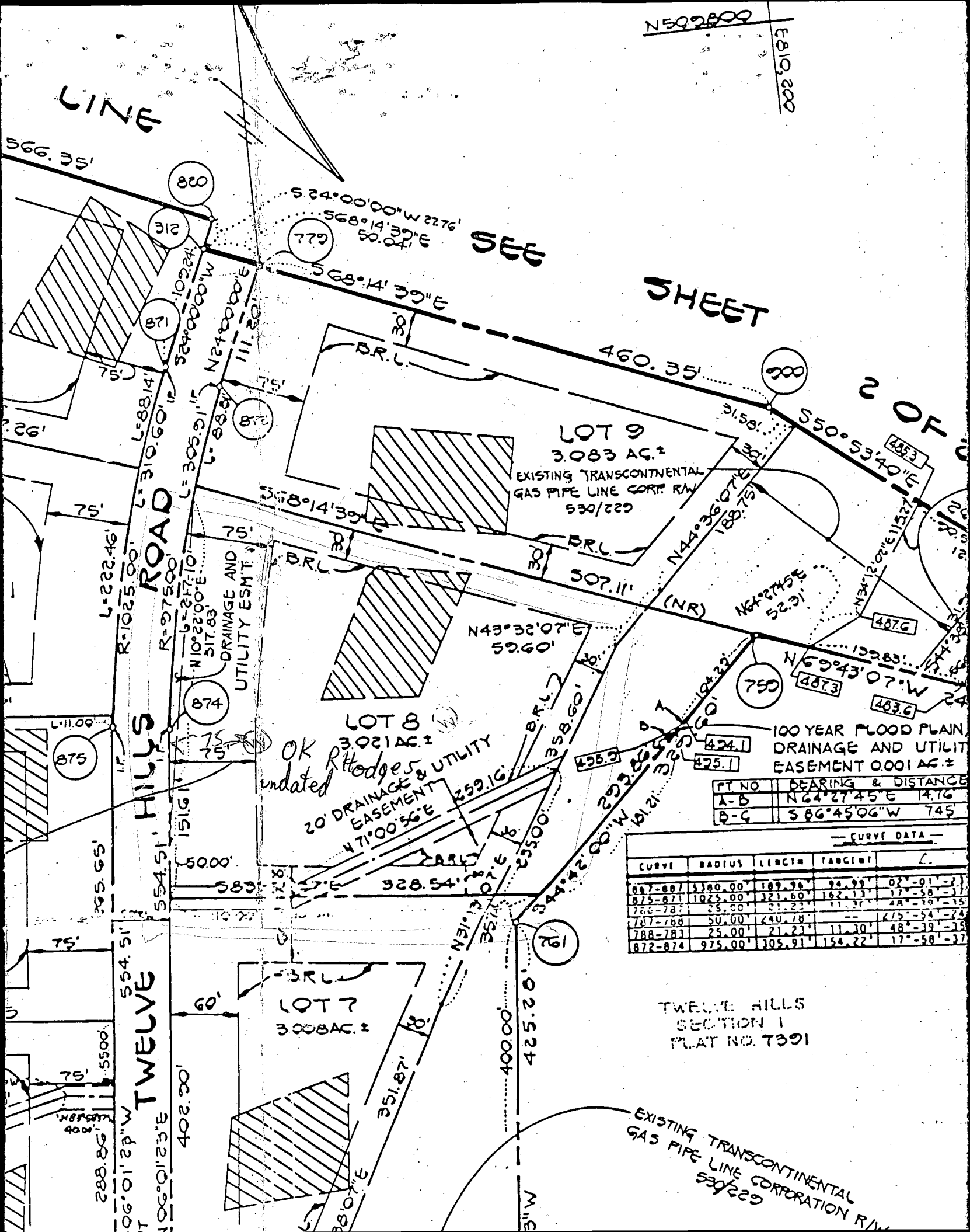
E810,200

LINE

SEE

SHEET

2 OF 2



100 YEAR FLOOD PLAIN
DRAINAGE AND UTIL
EASEMENT 0.001 AC ±

PT NO	BEARING & DISTANCE
A-B	N 69° 43' 07" W 14.76'
B-C	S 86° 45' 06" W 7.45'

— CURVE DATA —

CURVE	RADIUS	LENGTH	TANGENT	L
867-868	5340.00'	189.96'	94.99'	02°-01'-21"
875-876	1025.00'	321.60'	162.13'	17°-58'-37"
766-767	25.00'	21.23'	11.37'	48°-19'-15"
767-768	50.00'	240.78'	---	215°-54'-24"
788-789	25.00'	21.23'	11.30'	48°-19'-39"
872-874	975.00'	305.91'	154.22'	17°-58'-37"

TWO HILLS
SECTION 1
PLAT NO. T391

EXISTING TRANSCONTINENTAL
GAS PIPE LINE CORPORATION R/W
530/229