

9/14/84 W.P.I. - 9/11/84 App'd F.S.

9/11/84
noon

PERMIT

P 34120
A 29653

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

03-308200
INDEX

ELLICOTT CITY
DISTRICT 3rd.
DATE 8/2/84

Wright Contractors IS PERMITTED TO INSTALL ALTER

ADDRESS Liberty Road, Sykesville, MD PHONE _____

SUBDIVISION Slack Estates ROAD 1990 St. James Rd LOT 3

PROPERTY OWNER William R. German

ADDRESS 7971 Shetland Dell
Glen Burnie, Maryland 21054

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

Dry well to have 125 sq. ft. effective absorbant sidewall area per bedroom. Inlet 4 feet below original grade and maximum depth 10 feet for dry well. Effective area begins at 5 feet. LOCATION: 20 feet off left property line and 104 feet from rear property line when facing lot from St. James Road. AND/OR Dry well and Trench - If trench used, need: 5 foot earth buffer between trench and dry well. Call for 2 inspections of trench - before and after gravel is installed. Run trenches on contour.

9/10/84 ok. to use trench only system, need 118 linear feet of trench with same inlet depth & bottom depth. F. Shinn

PLANS APPROVED BY C. B. Streaker DATE 12/29/80

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

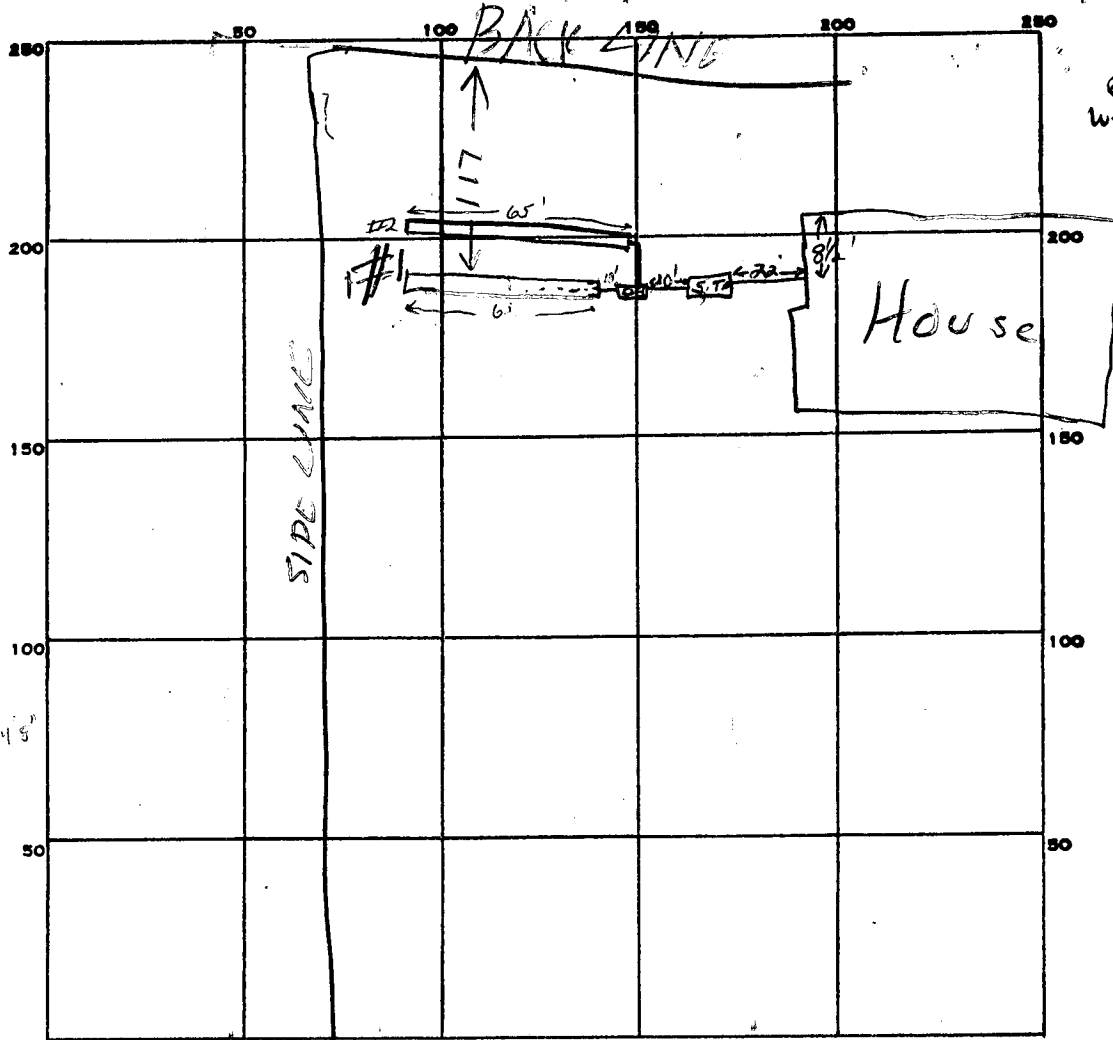
BUDG. PERMIT SIGNED
AND RETURNED 8/29/80
Serial # 34502 - P.H.H.

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 29653



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

ST JAMES RP

PERMIT CARD ✓ Signed

SEPTIC TANK, LEVEL ✓ 1250 gal.

CLEANOUTS S.T. / O.K.

DISTRIBUTION BOX, LEVEL O.K.

TILE FIELD, DEPTH #1 / #2 FT. TRENCH WIDTH #1 / #2 FT.

GRAVEL DEPTH 5-5 1/2 FT. TOTAL LENGTH #1 / #2 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL AREA 625 ft TOTAL BOTTOM AREA

125
5
625

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET 5 FT.

ABSORBENT AREA ± 625 SQ. FT.

REMARKS 9/11/84 - 1230 PPM - ADD STONE TO TRENCH #1 DIG TRENCH #2 RH

DATE SYSTEM APPROVED 9/13/84

INSPECTOR Frank Skurina

APPLICATION

A 29653

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P.O. BOX 476 ELLICOTT, MARYLAND 21043
TELEPHONE: 992-2330

1-3 Bedrooms 1000 gallons
Septic Tank { 4 Bedrooms 1250 gallons
3rd

DISTRICT _____
DATE 4/3/79 below first

effective absorbent sidewall area per bedroom
5' of original soil
⊕ Dry well to have 125 sq ft.
Inlet 4' below original grade and maximum depth 10'
for dry well location: 20' off left property line and 105' from rear
property line when facing plot from St. James Road.

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

⊕ 4" Dry well + trench. If trench used - need:

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Slack property William R. German
2971 Shetland Dell
Glen Burnie Md 21057
ADDRESS _____ PHONE _____

(1) 5' earth buffer between trench and dry well.
Mr. Young, Security Development - 465-4244

PROPERTY LOCATION:
SUBDIVISION Slack Estates LOT NO. 3
ROAD AND DESCRIPTION Route 99 1990 St. James Rd.

(2) 2 inspections of trench # before and after test.
(3) Run trenches on contour

SIZE OF LOT 3 acres m/1 TYPE BLDG. 4 bedrooms per 59041

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES.

SIGNATURE OF APPLICANT /s/ Stewart Young for Security Development

APPROVED BY C. S. Streaker FOR ⊕ Dry well 4" + trench DATE 12/29/80

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

BLDG. PERMIT SIGNED
AND RETURNED 5/22/84
Serial # 59141 SFD

THIS IS NOT A PERMIT

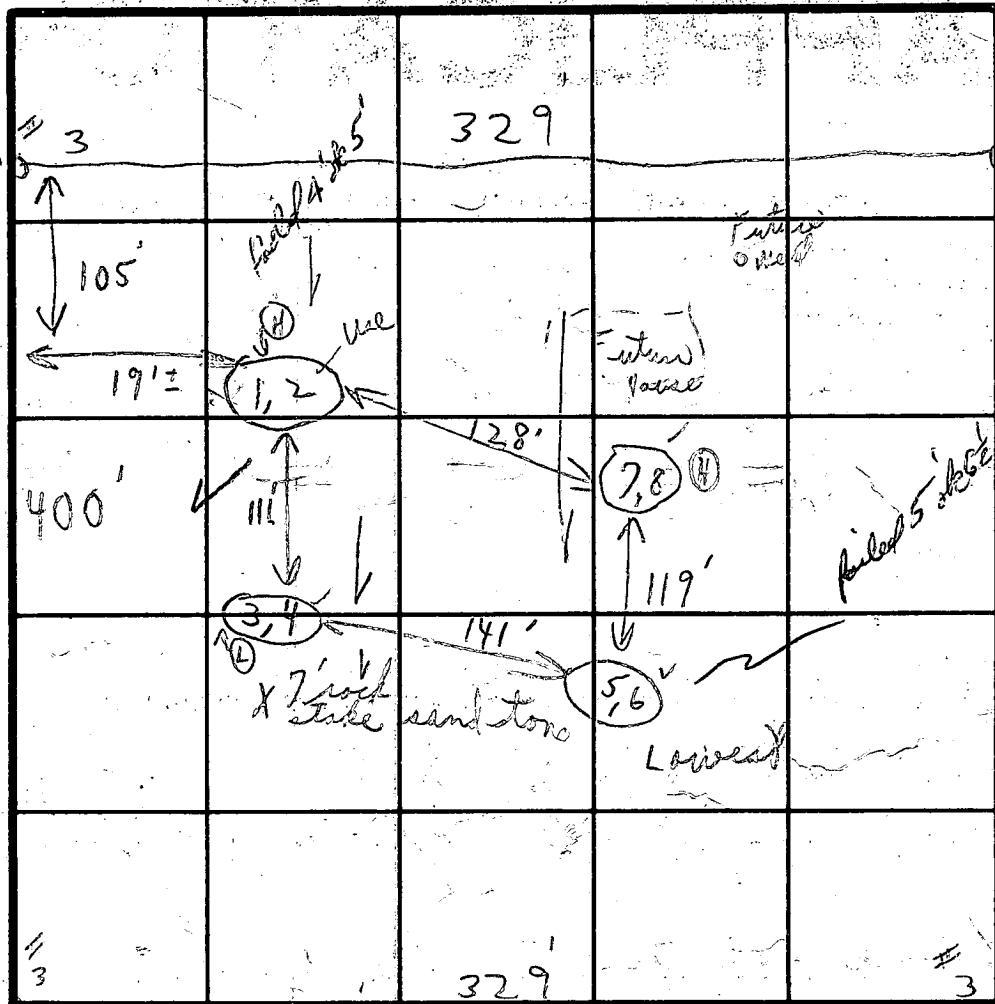
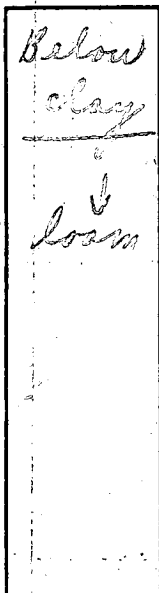
3

Woods

Field
soil

Test
not
rec
table

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Unnamed Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/16/99	1A	4'	1:55	2:09	1:55	2:09	4m
	2	12 1/2'	1:55	1:57	1:57	2:01	4m
	3	4'	1:41	1:44	1:44	1:50	6m
	4	12 1/2'	1:41	1:43	1:43	1:56	7m
	5A clay	5'	1:45	1:	1:45	1:56	2:02
	6	13 1/2'	1:45	1:52	1:52	2:02	10m
	7	4'	2:33	2:35	2:35	2:38	3m
	8	13'	2:33	2:35	2:35	2:38	3m
	5B	6 1/2'	2:39	2:49	2:49	3:03	14m
	1B	5'	2:34	2:36	2:36	2:38	2m

To 1199
120 off
bedrock
depth 4'
ground
5'
Maximum
depth
11 1/2'
Total
7 min

REMARKS Tests in open field

Wanted on water + small hole 2:13

TYPE OF SOIL

P. Schaefer 2:33

TESTED BY

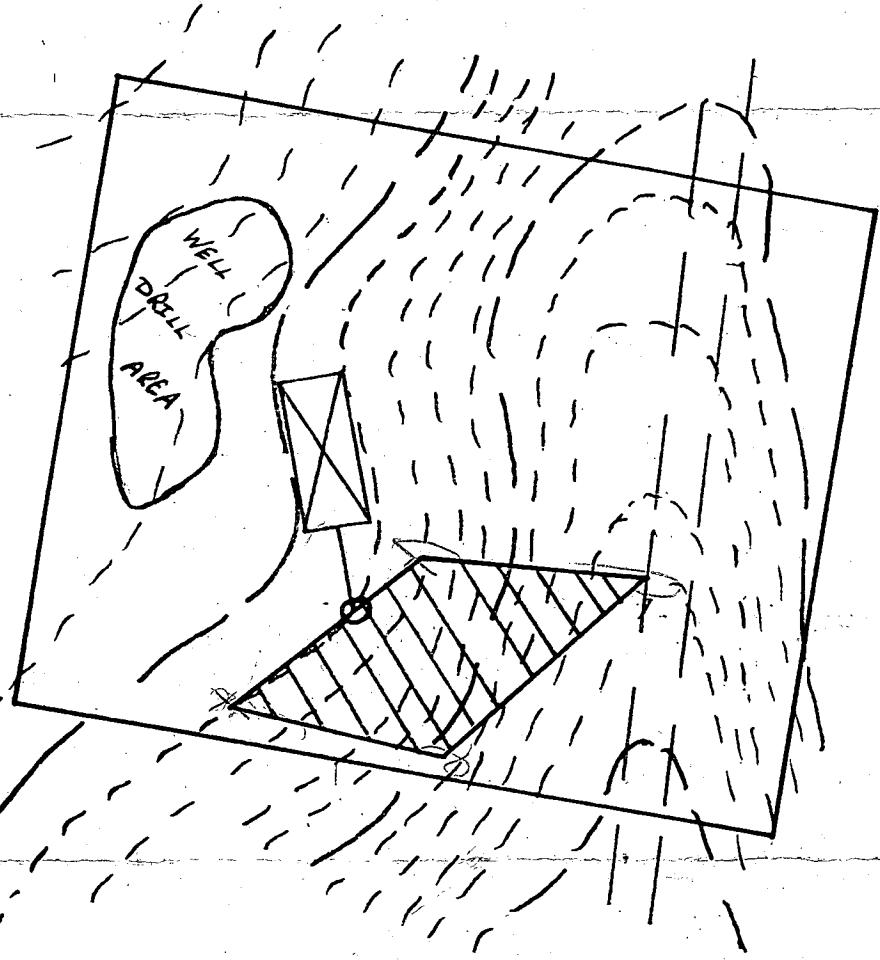
C. B. A.

ALSO PRESENT

Machin out of field

LOT #3 SLACK ESTATES

255 10 SOUTH
PI 432



(610)

9/19/83
Well area OK
FS

BILL GERMAN

WORK 796-9355

HOME 721-4199

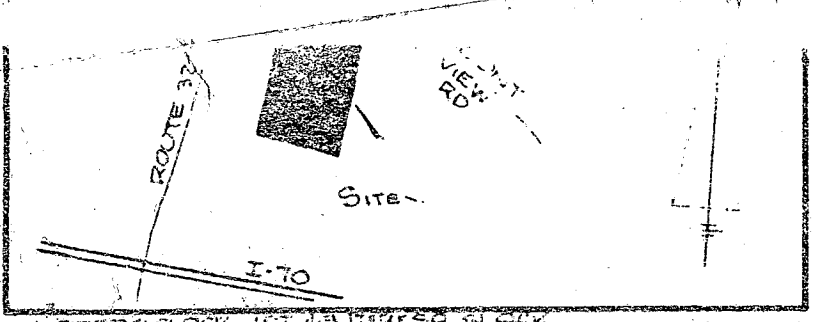
540,814.43	815,825.02
540,257.43	815,375.02
540,298.78	815,403.29
540,942.94	814,947.24

ORIENTED SHOWN HEREON BASED ON MD STATE GRID
 HORIZ CO. TRAV. PT. # 2657001 & PT. # 2658001.

GEORGE W. KELLY
 LOT 35

GEORGE LAUDER
 LOT 38

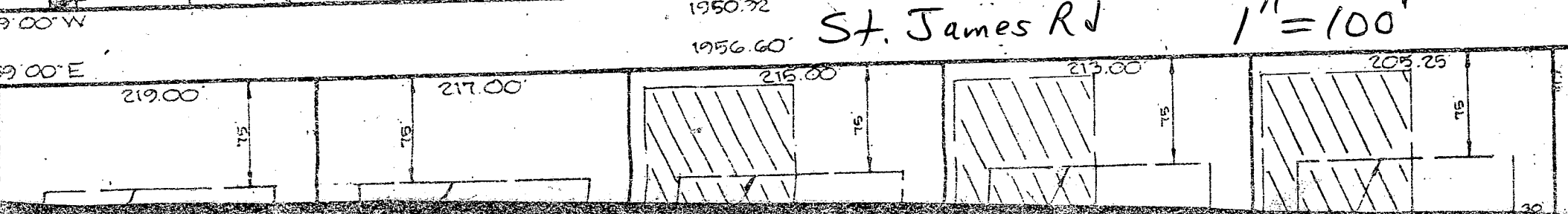
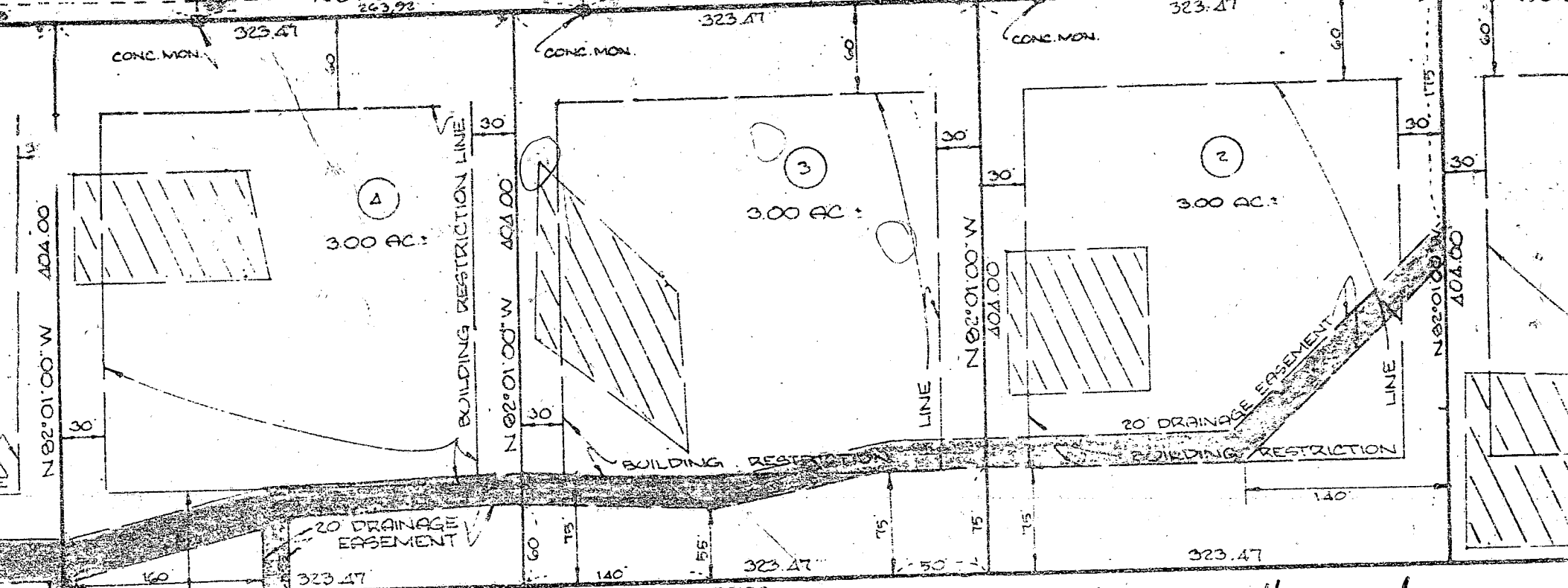
JOHN BLACK
 LOT 3A



TERESA SLACK
 LOT 5 B

GEO. W. SLACK, ET AL.
 LOT 5A

ELLEN PROP. PLAT 3672
 NOT 59°00'E 1761.90' 263.92 311.58 323.47 323.47 323.06



7315

SEQUENCE NO. (OEP USE ONLY)

9/28/83

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

HO-81-0272

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

please print or type

fill in this form completely

Date Received

09 08 83

OWNER INFORMATION

GERMAN WM. R. (Last Name, Owner, First Name)

1574 BANBURY CT. (Street or RFD)

CKOFTON MD. 21114 (Town, State, Zip)

DRILLER INFORMATION

Dana Kyker, Jr. II (Driller's Name, License No. 256)

Westminster Rotary Well Drilling, Inc. (Firm Name)

Box #861, Westminster, Md. 21157 (Address)

Dana Kyker, Jr. II 9/16/83 (Signature, Date)

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 550

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL 200 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)
JETTED
Jetted & DRIVEN
AIR-ROTary
AIR-PERCussion
ROTARY (Hydraulic Rotary)
CABLE
REVerse-ROTary
DRive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
D THIS WELL WILL DEEPEAN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

FORCE FS WRITE INITIALS IN BOX PERMIT No. HO-81-0272

SPECIAL CONDITIONS

B 3

LOCATION OF WELL

HOWARD (COUNTY)

SLACK ESTATES (SUBDIVISION)

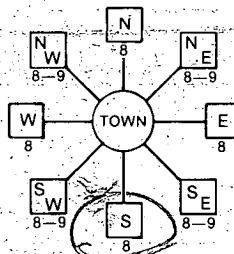
SECTION 44 46 LOT 48 50

WEST FEENSLHIP (NEAREST TOWN)

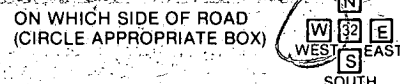
MILES FROM TOWN (enter 0 if in town) 73 76 77 78 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



St. James (NEAR WHAT ROAD)



300 (DISTANCE FROM ROAD)

ENTER FT or MI 77

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD (COUNTY NAME)

A 29653 (COUNTY NO.)

OEP SIGNATURE

STATE HEALTH INSERT S

DATE ISSUED 09 19 83

Frank Sp... 3/19/84 (CO SIGNATURE, EXP. DATE)

NORTH GRID 540 0 0 0

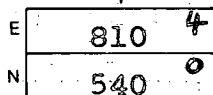
EAST GRID 0 3 1 4 0 0 0

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

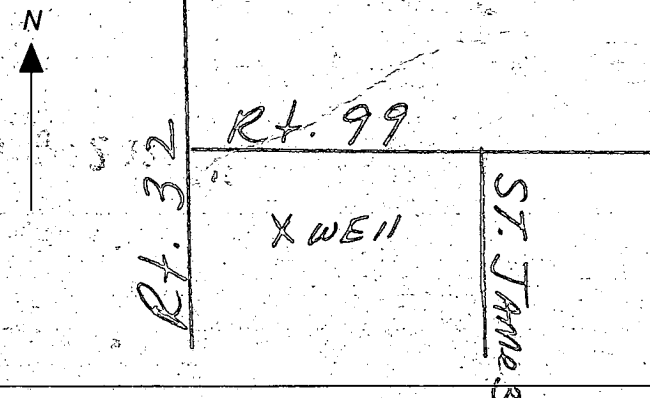
- 1. City
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

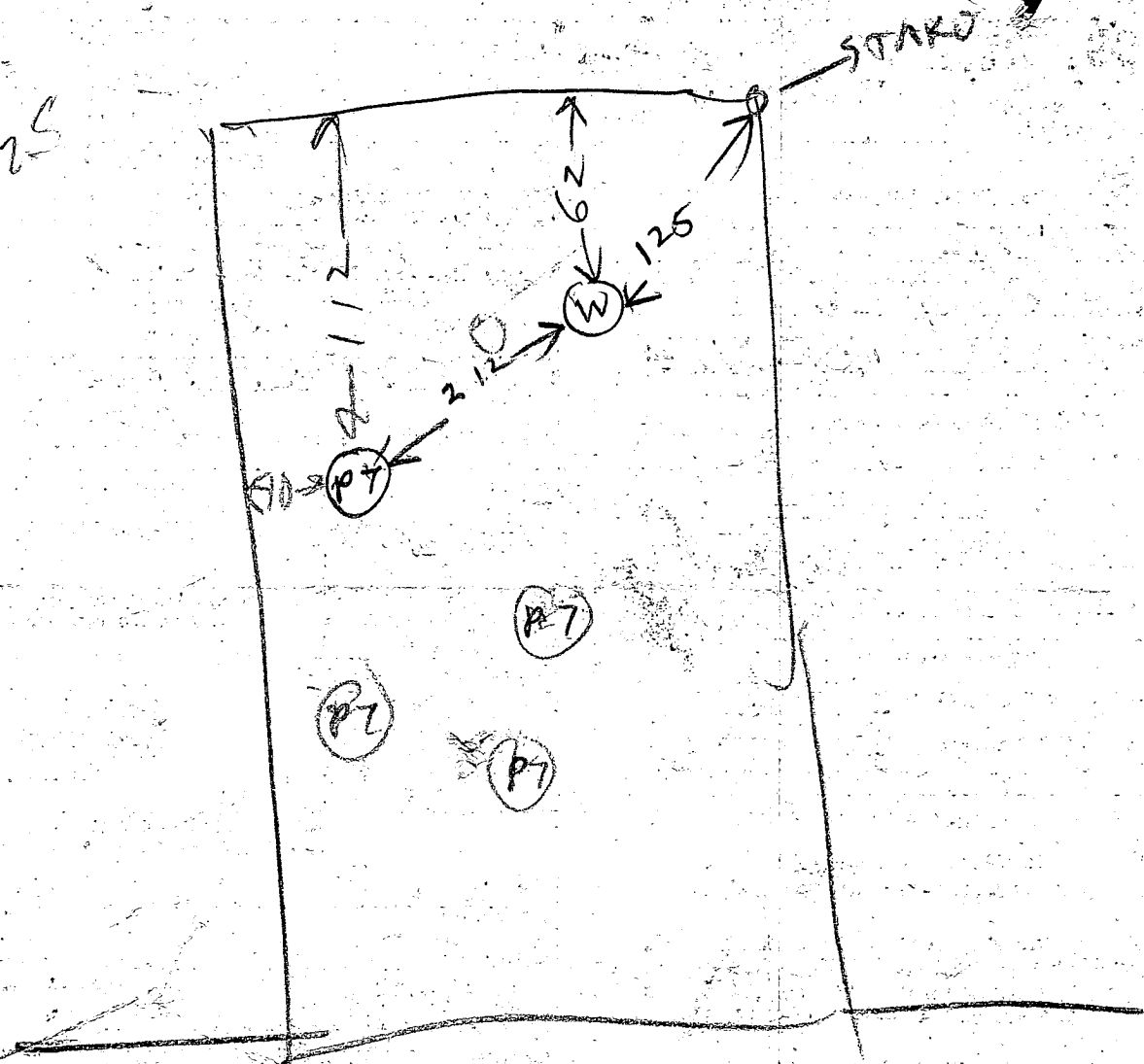


9/28/83 WELL OK SEE OTHER SIDE RH

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



10-025



ST JAMES RD

- ① LOCATION OK 9/28/83
- ② 85 FT CASING LEFT OUT OF GROUND
- ③ 70 FT OPEN HOLE MEASURED WITH A WEIGHTED STRING
- ④ 23 BAGS
- ⑤ Well OK

B. Hodge

also present Kyker
Gerner

C1 4452 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) (OEP USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER A 29653

DATE Received [] DATE WELL COMPLETED 092883 Depth of Well 224 28 26 (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-81-0272

OWNER German last name William R first name STREET OR RFD Saint James Road TOWN West Friendship SUBDIVISION Slack Estates SECTION LOT 3

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		Check if water bearing
	FROM	TO	
Dirt	0	1	
Soft Brown Mica laced w/ sand	1	46	X
Soft Brown Mica	46	77	
Hard Brown & Blue Mica Schist very seamy	77	125	X
Hard Blue & Gray Mica	125	360	
Hard Brown Sandstone	360	363	X
Grey & Blue Schist	363	428	

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO. OF BAGS 23 NO. OF POUNDS 2162 GALLONS OF WATER 138 DEPTH OF GROUT SEAL (to nearest foot) from 0 8 3 ft. to 8 3 ft.

CASING RECORD casing types insert appropriate code below MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot) S T 6 8 5

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

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

DEPTH (nearest ft.) HO 8 5 4 2 8

CIRCLE APPROPRIATE LETTER 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.

DRILLERS IDENT. NO. 256 Dana Kyker, Jr. II

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

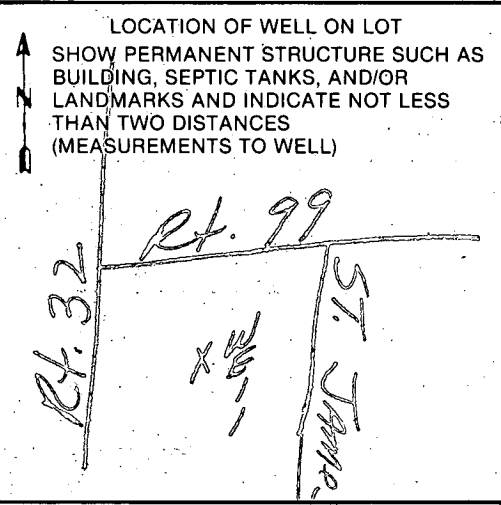
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER): TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 8 30 35 PUMPING RATE (gal. per min. to nearest gal.) 3 0 3 METHOD USED TO MEASURE PUMPING RATE Submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 4 9 WHEN PUMPING 3 5 3 TYPE OF PUMP USED (for test) 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) + above - below LAND SURFACE (nearest foot)



FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-0272
 Location of property (road) St. James Rd
 Subdivision Slack Estates Lot 3 Block — Plat — Sec. —
 Well Driller Dana Kyker Jr. Owner William R. Gervase

Depth of well 423'
 Distance of measuring point (M.P.) above ground 2 Ft
 Static water level (S.W.L.) below M.P. 49

I. High rate pumping -- reservoir drawdown

Time pump started 8:20 AM Pumping rate 20
 Total time to reach pumping water level ft. below M.P.

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

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:20	49	3 Sec.		20
8:35	154	4 Sec.		15
8:50	230	4 Sec.		15
9:05	288	4 Sec.		15
9:20	332	4 Sec.		15
9:35	364	6 Sec.		10
9:50	362	7 Sec.		8.5
10:05	362	12 Sec.		5
10:20	362	20 Sec.		3
10:35	362	20 Sec.		3
10:40	360	20 Sec.		3
10:55	357	18 Sec.		3.3
11:05	355	18 Sec.		3.3
11:20	354	18 Sec.		3.3
11:35	353	18 Sec.		3.3
11:50	351	18 Sec.		3.3
12:05	351	18 Sec.		3.3
12:20	350	18 Sec.		3.3
12:35	350	18 Sec.		3.3
12:50	350	18 Sec.		3.3
1:05	350	18 Sec.		3.3
1:20	350	18 Sec.		3.3
1:35	350	18 Sec.		3.3
1:50	350	18 Sec.		3.3

WPI

SUPPLY LINE & PIT LESS

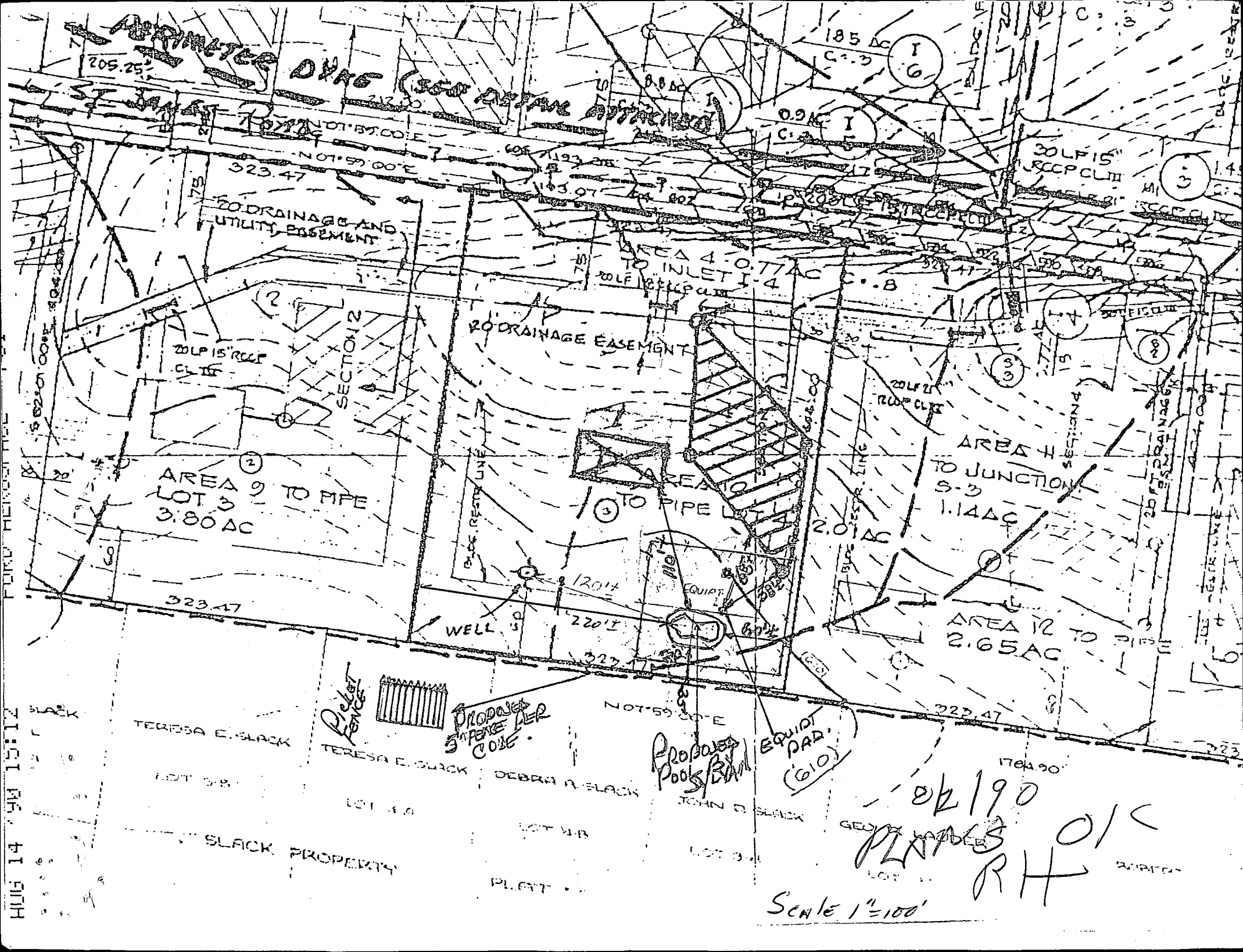
INSTALLED 4' BELOW GRADE.

TANK WITH P.R.V. OK,

NO PERMIT YET - OWNER & PLUMBER
KNOW THIS,

9/14/81 @ Wilson

RECEIVED
HOWARD COUNTY
HEALTH DEPT.
OCT 3 2 37 PM '81
DIVISION OF
ENVIRONMENTAL
HEALTH



205.25'

WATER DYC (See ATTACHED)

185 AC

I 6

0.9 AC

I 5

30' LF 15" RCCP CL III

I 4

20' DRAINAGE AND UTILITY EASEMENT

AREA 4 0.77 AC TO INLET I-4

20' DRAINAGE EASEMENT

20' LF 15" RCCP CL III

SECTION 2

20' LF 12" RCCP CL II

AREA 11 TO JUNCTION S-3

AREA 9 TO PIPE LOT 3 3.80 AC

AREA 10 TO PIPE

AREA 12 TO 2.65 AC

323.47

WELL 5

120'±

220'±

2.0 AC

323.47

NOT 59'± COSE

TERESA E. SLACK

TERESA E. SLACK

DEBRA A. SLACK

PROPOSED SANDPIT

EQUIP PAD (G10)

LOT 5-B

LOT 3-A

LOT 4-B

JOHN B. SLACK

GEORGE WANDER

SLACK PROPERTY

PLANT

Scale 1"=100'

06190
PLANS
RH O/C

AUG 14 '94 15:12