

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
 www.hchealth.org
 Facebook: www.facebook.com/hocohealth
 Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

APPLICATION
FOR PERCOLATION TESTING AND SITE EVALUATION

1556484B

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Old Lisbon Estates LOT # 20
 PROPERTY ADDRESS 15775 Frederick Rd., Woodbine 21797
STREET TOWN ZIP
 TAX ACCOUNT # 04315448 TAX MAP 8 GRID 7 PARCEL 5 LOT 20 LOT SIZE (ACRES) 1
 ZONING CATEGORY RC TIER 3 28

PROPERTY OWNER(S) Kimberthy/Heritage, LLC

DAYTIME PHONE 410-489-7900 CELL 410-984-0408 EMAIL Tim@HeritageMaryland.com
 MAILING ADDRESS P.O. Box 482 Lisbon, MD 21765
STREET CITY, STATE ZIP

APPLICANT Heritage Land Development

RELATIONSHIP TO OWNER: Developer

DAYTIME PHONE 410-489-7900 CELL 410-984-0408 EMAIL Tim@HeritageMaryland.com
 MAILING ADDRESS P.O. Box 482 Lisbon, MD 21765
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

BUILDING:

- RESIDENTIAL WITH four EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 30
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

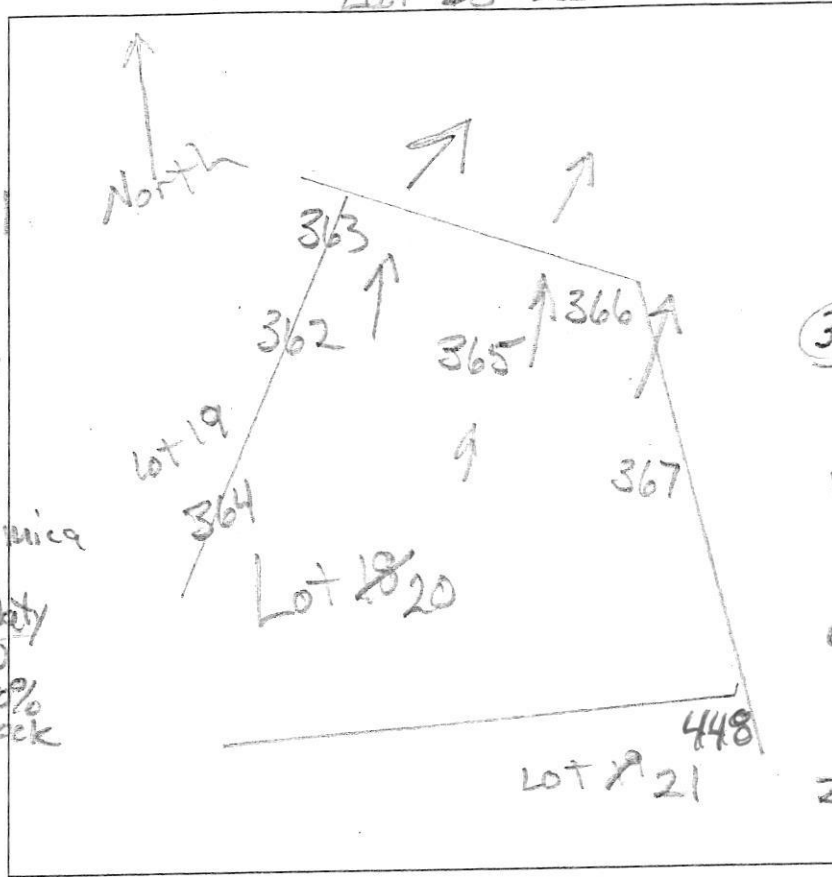
[Signature] 9/12/15
 SIGNATURE OF APPLICANT DATE

AP _____

Lot 18/20

367
 0.7' brn sil thick platy
 1.5' vel-red chsil thick platy
 2.5' red chsil pm, dense
 8.5' red & yellow chsil, thin platy many f. & v. l. mica
 11' red & yellow sil, thick platy
 11.5' vel sil > 50% rock

365
 3.8' brn sil thick platy
 vel-red sil thick platy
 vel-red sil pm, dense
 12' red & yellow sil, thin platy many f. & v. l. mica



366
 0.7' brn sil thick platy
 2' vel-red sil, thick platy
 3.4' vel-red chsil, thick platy
 12' red chsil thin platy many f. & v. l. mica

364
 0.7' brn sil thick platy
 2.4' vel-brn to vel-red sil thick platy
 5' vel-red chsil, pm
 12' red chsil thin platy many f. & v. l. mica

363
 1.8' brn sil to vel-brn sil thick platy
 4' vel-red chsil, pm
 5.8' red & yellow sil thick platy mica
 12' red & grey chsil, thin platy many f. & v. l. mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/15/15	367	4' 11"	1:54	2:01	2:08	7	P
9/15/15	365	5.8' 12"	2:19	2:23	2:31	8	P
9/15/15	366	12'	Visual	35'-8" side wall			P
9/15/15	362	6.4' 12"	2:37	2:48	3:02	14	P
9/15	364	5.2' 12"	2:50	2:57	3:08	11	P
9/15	363	5.5' 12"	3:00	3:06	3:15	9	P

f. & v. l., fine & very fine

REMARKS _____

SANITARIAN R. Bricker BACKHOE Level land OTHERS Tim Feago

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

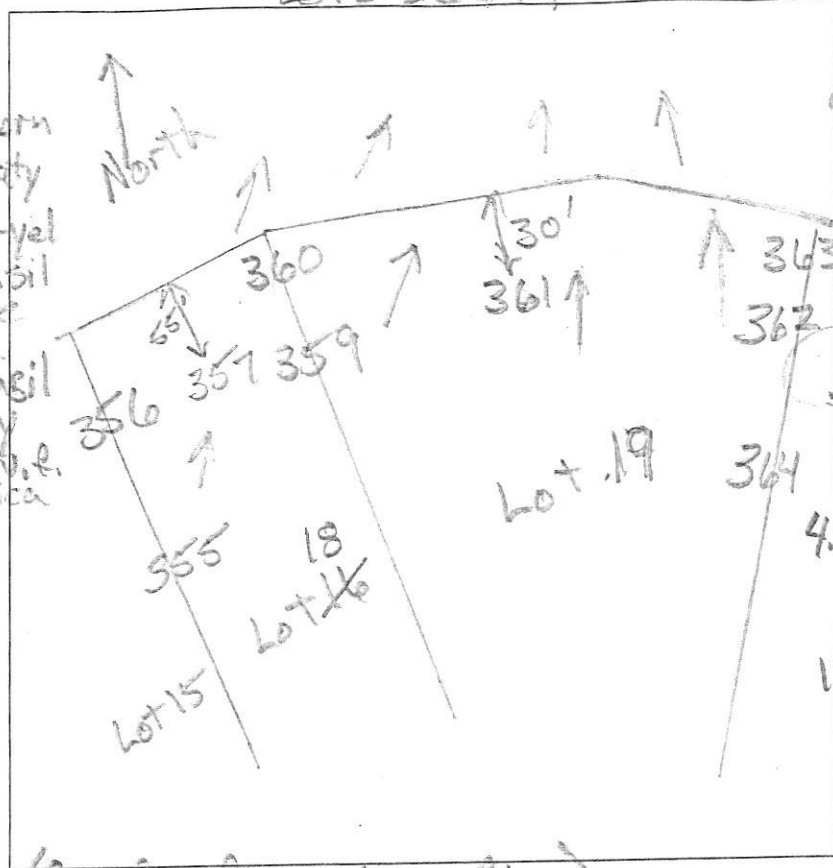
Lots 18, 19, 16, 15, 14

A/P

362
 1' brn to yel-brn sil, thick platy
 2' yel-red, red-yel & yellow chsil
 5.5' Øm, dense
 yel-red chsil thick platy
 common f. & v. l. mica

361
 15' brn to yel-brn sil thick platy
 yel-brn sil
 Øm,
 2.4' yel-red sil
 Øm
 3.3' red & lt grey chsil, thin platy
 many f. & v. l. mica

360
 1' brn sil thick platy
 1' yel-red sil thick platy
 2.6' red & yellow sil, thick platy
 many f. & v. l. mica
 3.9' red & lt grey chsil, thin platy
 many f. & v. l. mica
 12'



359 & 357
 0.8' brn sil thick platy
 yellow-red chsil, thick platy
 2' yel-red & pale brn sil, Øm dense
 3.3' red & yellow sil, thick platy
 many f. & v. l. mica
 4.5' red & lt grey chsil, thin platy
 many f. & v. l. mica
 12'
 #357 has same profile as #359

358
 1.6' brn sil to yel-brn sil, thick platy
 yel-red & yel-brn sil
 1.8' Øm, dense
 3' red & yel sil, thin platy
 many f. & v. l. mica
 5.2' red chsil thin platy
 many f. & v. l. mica
 12'

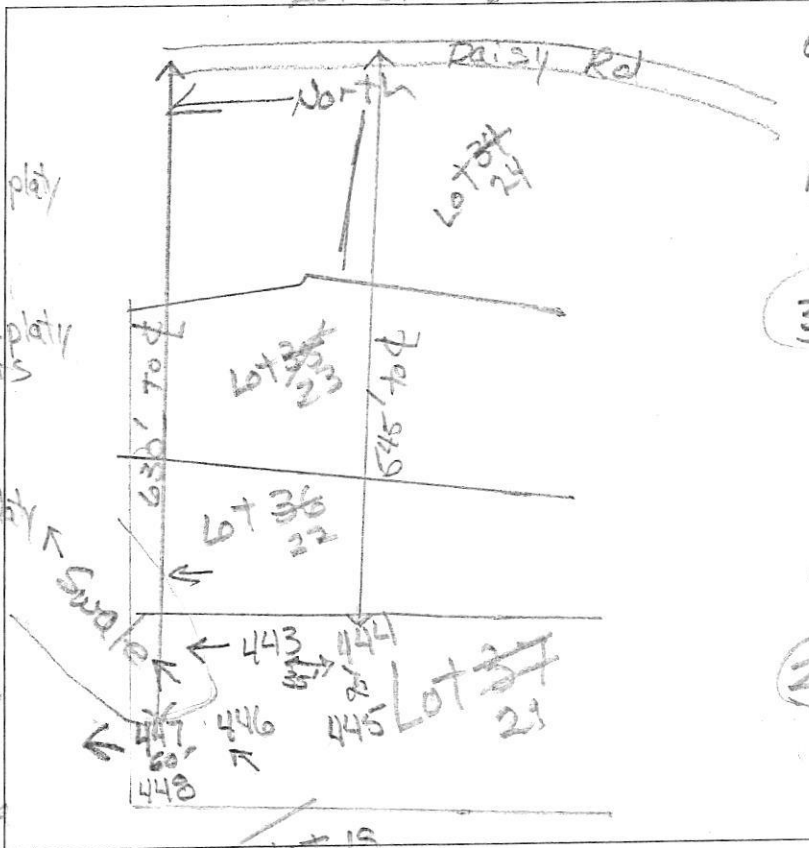
(f. & v. l. = fine and very fine)

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/15/15	362	6.4' / 12'	2:37	2:48	3:02	14	P
9/15/15	361	4.5' / 12'	3:18	3:23	3:40	17	P
9/15/15	360	3.9' / 12'	3:32	3:36	3:40	4	P
9/15/15	359	4.5' / 12'	3:34	3:39	3:47	8	P
9/15/15	358	5' / 12'	3:52	3:56	4:03	7	P
9/15/15	357	12'	Visual	2.5' - 8' sidewalk	0.8' 1/2" 1/2"		P

REMARKS _____
 SANITARIAN R. Bricker BACKHOE Level Land OTHERS Tim Feagg
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Lot 37 21

AP



444
 dk brn L thin platy
 1' brn L thick platy
 red sil
 red & brn yel
 sil thick platy
 8% chert
 27' red, brn
 & red-yel
 chls, thin platy
 many mica
 13'

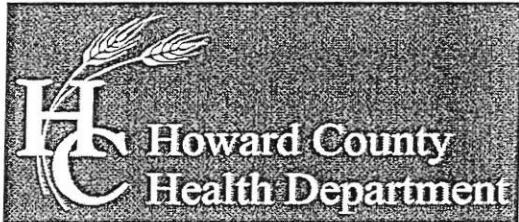
445
 dk, brn L, thin platy
 0.6' red-yel sil
 thick platy
 many v. mica
 2' red, red-yellow
 & yellow
 chls thin platy
 esp (dk. brn)
 few flags
 9'-12'
 12'

446
 dk brn - thin platy
 red-brn L, thick platy
 2' yel-red & brn
 ch sil - thick
 many v. mica
 3.3' yel-red chs/
 thick platy
 many v. mica
 4.8' brn, red-yel,
 yel-red & yellow
 chls, thin platy
 many mica
 12'

447
 dk brn L thin platy
 0.7' red sil, thick
 no chert
 many v. mica
 1.2' red, red-yel
 & red
 chls, dense
 3.3' red, brn, yellow
 & yel-red chls
 thin platy
 many mica
 12.5' 448
 0.4' brn L, thin platy
 red sil thick
 platy
 many v. mica
 2.5' red chls
 thin platy
 many mica
 few flags
 An coatings
 10'-12'
 12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/24/16	444	43 1/2'	12:08	12:10	12:18	3	P
6/24/16	445	3'	12:16	12:18	12:22	4	P
6/24/16	446	5 1/2'	12:23	12:34	12:55	21	P*
6/24/16	447	43 1/2'	12:36	12:41	12:49	8	P
6/24/16	448	12'	Visual	Side wall 2.5'-8" 0.8 gpd / 0.2			P
6/24/16	446	12'	Visual	Side wall 5'-8" 0.9 gpd / 0.2			P*

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Old Lisbon Estates Lot: 20-20

365 Initial system: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 8
366 1st Replacement: Application rate: 0.8 Effective area beginning depth: 3.5 Bottom maximum depth: 8
368 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 4 Bottom maximum depth: 8

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

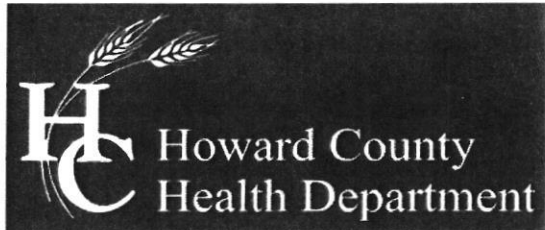
$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: R Bricker Date: 9/22/2016



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A. S. [Signature]

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REMARKS _____

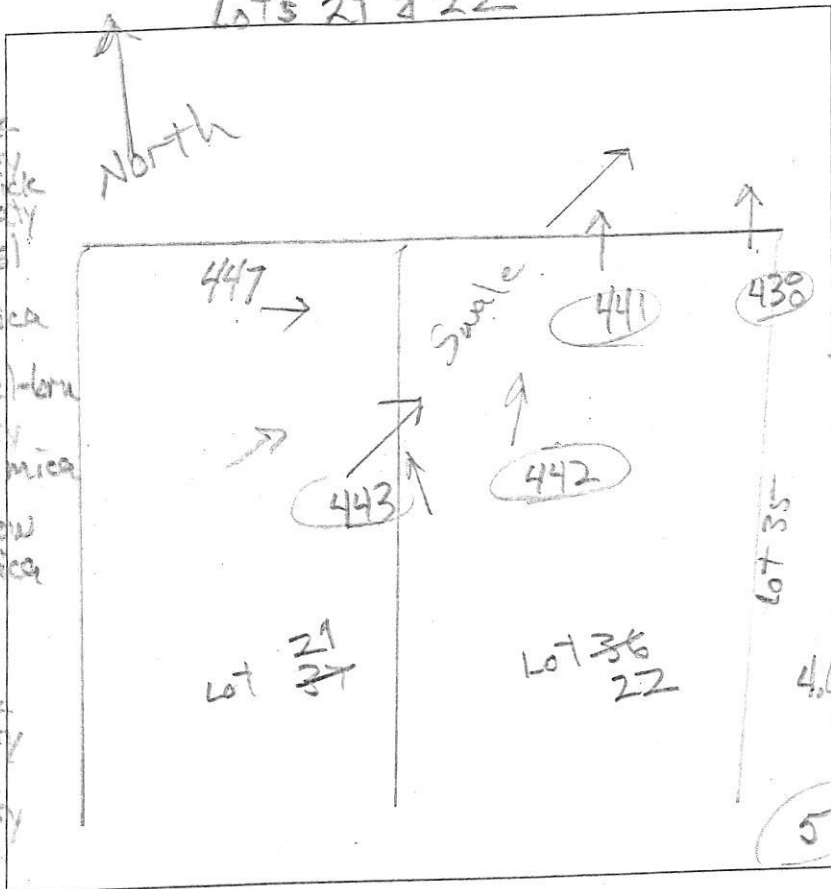
SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

lots 21 & 22

AP



438
1.2' dk-brn L, thick platy red-brn L, thick platy
2.5' yel-brn chsl platy many v. f. mica
4' yel-red & yel-brn (fs), thin platy many v. f. mica
11.5' yel-red & yellow chls many mica thin platy

441
0.5' dk-brn L, thick platy
1.8' brn & red-brn L, thick platy
3.8' red-brn L thin platy common v. mica
5' yel-red & brn vchls thin platy many mica
red, yellow & yel-red chls, thick platy many mica

11.5'

443
dk-brn L, thick platy
yel-red & red-brn L, thick platy
yel-red & yel-brn chsl, thick platy many v. f. mica
2.8' pale yel-brn chsl, thick platy many v. f. mica
4' (fs) (yel-red)
4.6' yel-brn (fs) dense, many v. f. mica
5' yel-red (fs), thick platy many v. f. mica
red chls thin platy many mica

442
12' dk-brn L, thick platy
15' red-brn L, thick platy
yel-red, red-yel & pale yellow
2.5' (fs), thick platy many v. f. mica
red-yel, yel-red yellow & pale yellow
1fs, thin platy many mica common Mn conc.
4' yel-red & red-yel vchls w/ few flags

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3/9/16	443	6' / 12'	2:43	2:48	3:00	12	P
3/9/16	442	4' / 12'	2:45	2:47	2:50	3	P
3/6/16	441	5.5' / 11.5'	3:24	3:26	3:33	7	P
3/9/16	438	4.5' / 11.5'	3:27	3:32	3:39	7	P

REMARKS _____
 SANITARIAN PP Maricker BACKHOE Level Land OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

Lots 22 & 23

AP



435
0.6' brn L, thin platy
yell-red & brn
chl, thick platy
1.4' yell-red, red-yel
& brn chls (5% rock frag)
6.5' many mica
12' red, brn
& yell-red chls
+ 5-8% flags
(~30% rock frag)
many mica

439
0.5' brn L, thin platy
brn-yellow & thick platy
1.4' brn, yell-red
& red-yel
chls, many mica
7' yell-red, brn,
red-yel & yellow
chls thin platy
12' many mica

437
0.3' brn L, thin platy
red-yel
brn-yel & brn
chl sil, thick
1.5' many mica
12' red, yell-red
& red-yel
chls, thin platy
many mica

440
0.4' brn L, thin platy
brn & red-brn
L, 2 imp
1.5' brn, red-yel
& yell-red (sl)
thick platy
2.5' red, yell, red
& red-yel (20% rock frag)
5' vchls, many mica
yell-red, brn,
red-yellow
chls, thin platy
& 10% flags
many mica
(~30% rock frag)

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/24/16	435	4 1/2'	11:07	11:10	11:14	4	P
6/24/16	437	5 1/2'	11:24	11:29	11:36	7	P
6/24/16	436	12'	Visual	sidewall	0.80	25-8'	P
6/24/16	439	43 1/2'	11:40	11:46	11:55	9	P
6/24/16	440	43 1/2'	11:52	11:56	12:03	7	P

436
0.3' brn L, thin platy
brn & red
chl sil, thin platy
many v.e. mica
1.3' red, yellow
& red-yellow
vchls, thin platy, dense
many mica
2.5' red, yell-red
& red-yel
chls, thin platy
many mica

REMARKS _____
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