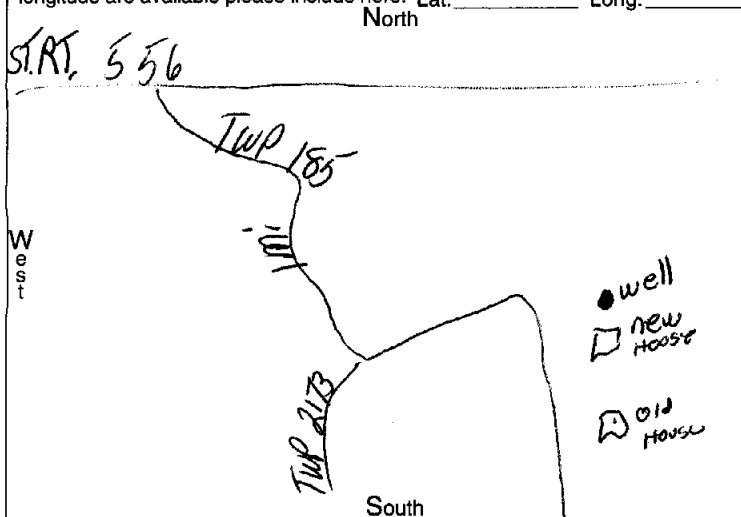


WELL LOG AND DRILLING REPORT

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

887158

WELL LOCATION		CONSTRUCTION DETAILS																																																																																					
County <u>Monroe</u> Township <u>Switzerland</u> Owner/Builder <u>John & Frances Kinzy</u> (Circle One or Both) First Last Address of Well Location <u>50824 Switzerland Township Rd 1</u> Number Street Name City <u>Beallsville</u> Zip Code +4 <u>43716</u> Permit No. <u>7</u> Section/Lot No. _____ (Circle One or Both) Location of Well in State Plane coordinates, if available: Use of Well <u>private water system</u> N ☐ X ☐ +/- _____ ft. or m S ☐ Y ☐ +/- _____ ft. or m Elevation of Well _____ +/- _____ ft. or m Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source _____ Source of Coordinates: ☐ GPS ☐ Survey ☐ Other _____		☒ Rotary ☐ Cable ☐ Augered ☐ Driven ☐ Other _____ BOREHOLE/CASING (measured from ground surface) 1 ☒ Borehole Diameter <u>9 7/8"</u> inches Depth <u>38'</u> ft. Casing Diameter <u>10"</u> in. Length <u>40'</u> ft. Thickness _____ in. 2 ☐ Borehole Diameter _____ inches Depth _____ ft. Casing Diameter _____ in. Length _____ ft. Thickness _____ in. Casing Height Above Ground <u>2.0'</u> ft. Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐ Other _____ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other _____ Joints 1 ☐ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐ Other _____ 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other _____ SCREEN Diameter _____ Slot Size _____ Screen Length _____ ft. Type _____ Material _____ Set Between _____ ft. and _____ ft. GRAVEL PACK (Filter Pack) Material/Size _____ Volume/Weight Used _____ Method of Installation _____ Depth: Placed FROM _____ ft. TO _____ ft. GROUT Material _____ Volume/Weight Used _____ Method of Installation _____ Depth: Placed FROM _____ ft. TO _____ ft.																																																																																					
Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: _____ Long: _____ North _____ 		DRILLING LOG* INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">From</th> <th style="text-align: center;">To</th> </tr> </thead> <tbody> <tr><td>Top soil</td><td style="text-align: center;">0.0</td><td style="text-align: center;">0.75</td></tr> <tr><td>Subsoil</td><td style="text-align: center;">.75</td><td style="text-align: center;">3.5</td></tr> <tr><td>Brown shale</td><td style="text-align: center;">3.5</td><td style="text-align: center;">8.0</td></tr> <tr><td>Brown sandstone</td><td style="text-align: center;">8.0</td><td style="text-align: center;">9.5</td></tr> <tr><td>Brown shale</td><td style="text-align: center;">9.5</td><td style="text-align: center;">11.0</td></tr> <tr><td>Brown sandstone</td><td style="text-align: center;">11.0</td><td style="text-align: center;">13.5</td></tr> <tr><td>Sandy brown shale</td><td style="text-align: center;">13.0</td><td style="text-align: center;">17.0</td></tr> <tr><td>Brown sandstone</td><td style="text-align: center;">17.0</td><td style="text-align: center;">22.0</td></tr> <tr><td>Gray sandstone</td><td style="text-align: center;">22.0</td><td style="text-align: center;">36.5</td></tr> <tr><td>Gray shale</td><td style="text-align: center;">36.5</td><td style="text-align: center;">43.0</td></tr> <tr><td>Limestone</td><td style="text-align: center;">43.0</td><td style="text-align: center;">43.5</td></tr> <tr><td>Limy gray shale</td><td style="text-align: center;">43.5</td><td style="text-align: center;">50.0</td></tr> <tr><td>Limestone</td><td style="text-align: center;">50.0</td><td style="text-align: center;">52.0</td></tr> <tr><td>Limy gray shale</td><td style="text-align: center;">52.0</td><td style="text-align: center;">58.5</td></tr> <tr><td>Limestone</td><td style="text-align: center;">58.5</td><td style="text-align: center;">65.5</td></tr> <tr><td>Limy gray shale</td><td style="text-align: center;">65.5</td><td style="text-align: center;">72.0</td></tr> <tr><td>Red shale</td><td style="text-align: center;">72.0</td><td style="text-align: center;">79.0</td></tr> <tr><td>Gray sandstone</td><td style="text-align: center;">79.0</td><td style="text-align: center;">82.5</td></tr> <tr><td>Red shale</td><td style="text-align: center;">82.5</td><td style="text-align: center;">93.0</td></tr> <tr><td>Gray sandstone (water 95')</td><td style="text-align: center;">93.0</td><td style="text-align: center;">106.0</td></tr> <tr><td>Gray shale</td><td style="text-align: center;">106.0</td><td style="text-align: center;">110.0</td></tr> <tr><td>Gray sandstone</td><td style="text-align: center;">110.0</td><td style="text-align: center;">116.5</td></tr> <tr><td>Gray shale</td><td style="text-align: center;">116.5</td><td style="text-align: center;">122.0</td></tr> <tr><td>Gray sandstone</td><td style="text-align: center;">122.0</td><td style="text-align: center;">126.5</td></tr> <tr><td>Gray shale</td><td style="text-align: center;">126.5</td><td style="text-align: center;">133.0</td></tr> <tr><td>Gray sandstone</td><td style="text-align: center;">133.0</td><td style="text-align: center;">136.5</td></tr> <tr><td>Gray shale</td><td style="text-align: center;">136.5</td><td style="text-align: center;">144.0</td></tr> </tbody> </table>			From	To	Top soil	0.0	0.75	Subsoil	.75	3.5	Brown shale	3.5	8.0	Brown sandstone	8.0	9.5	Brown shale	9.5	11.0	Brown sandstone	11.0	13.5	Sandy brown shale	13.0	17.0	Brown sandstone	17.0	22.0	Gray sandstone	22.0	36.5	Gray shale	36.5	43.0	Limestone	43.0	43.5	Limy gray shale	43.5	50.0	Limestone	50.0	52.0	Limy gray shale	52.0	58.5	Limestone	58.5	65.5	Limy gray shale	65.5	72.0	Red shale	72.0	79.0	Gray sandstone	79.0	82.5	Red shale	82.5	93.0	Gray sandstone (water 95')	93.0	106.0	Gray shale	106.0	110.0	Gray sandstone	110.0	116.5	Gray shale	116.5	122.0	Gray sandstone	122.0	126.5	Gray shale	126.5	133.0	Gray sandstone	133.0	136.5	Gray shale	136.5	144.0
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WELL TEST* Pre-Pumping Static Level _____ ft. Date _____ Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other _____ ☐ Air ☐ Bailing ☐ Pumping* ☐ Other _____ Test Rate _____ gpm Duration of Test _____ hrs. Feet of Drawdown _____ ft. Sustainable Yield _____ gpm *(Attach a copy of the pumping test record, per section 1521.05, ORC) Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No Quality _____		(If more space is needed to complete drilling log, use next consecutively numbered form.) Date of Well Completion <u>con't pg 2</u> Total Depth of Well _____ ft.																																																																																					
PUMP/PITLESS Type of pump _____ Capacity _____ gpm Pump set at _____ ft. Pitless Type _____ Pump installed by _____ I hereby certify the information given is accurate and correct to the best of my knowledge. Drilling Firm <u>Duncan Bros. Drilling Inc.</u> Address <u>Box 136</u> City, State, Zip <u>New Galilee, Pa. 16141</u> Signed <u>Cindy Duncan</u> Date <u>5/8/02</u> ODH Registration Number <u>1556</u>																																																																																							

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
 ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971
 Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WELL LOG AND DRILLING REPORTTYPE OR USE PEN
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PRESS HARDOhio Department of Natural Resources
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Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

887159

WELL LOCATION**CONSTRUCTION DETAILS**County Monroe Township SwitzerlandOwner/Builder John & Frances Kinzy

(Circle One or Both) First Last

Address of Well Location 50824 Switzerland Township Rd. 185

Number Street Name

City Beallsville Zip Code +4 43716Permit No. 7 Section/Lot No. 185

(Circle One or Both)

Location of Well in State Plane
coordinates, if available:

Use of Well

N ☐ X ☒ +/- ft. or mS ☐ Y ☐ +/- ft. or mElevation of Well +/- ft. or mDatum Plain: ☐ NAD27 ☐ NAD83 Elevation Source Source of Coordinates: ☐ GPS ☐ Survey ☐ Other Sketch a map showing distance well lies from numbered state highways, street
intersections, county roads, buildings or other notable landmarks. If latitude and
longitude are available please include here: Lat: Long:
North

West

South

WELL TEST*Pre-Pumping Static Level ft. Date Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other ☐ Air ☐ Bailing ☐ Pumping* ☐ Other Test Rate gpm Duration of Test hrs.Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ NoQuality **PUMP/PITLESS**Type of pump Capacity gpmPump set at ft. Pitless Type Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Duncan Bros. Drilling Inc.Address Box 136City, State, Zip New Galilee, Pa. 16141Signed Cindy DuncanDate 5/8/02ODH Registration Number 1556☐ Rotary ☐ Cable ☐ Augered ☐ Driven ☐ Other **BOREHOLE/CASING** (measured from ground surface)1 ☐ Borehole Diameter inches Depth ft.Casing Diameter in. Length ft. Thickness in.2 ☐ Borehole Diameter inches Depth ft.Casing Diameter in. Length ft. Thickness in.Casing Height Above Ground ft.Type 1 ☐ Steel 1 ☐ Galv. 1 ☐ PVC 1 ☐2 ☐ 2 ☐ 2 ☐ 2 ☐ Other Joints 1 ☐ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐2 ☐ 2 ☐ 2 ☐ 2 ☐ Other **SCREEN**Diameter Slot Size Screen Length ft.Type Material Set Between ft. and ft.**GRAVEL PACK** (Filter Pack)Material/Size Volume/Weight Used Method of Installation Depth: Placed FROM ft. TO ft.**GROUT**Material Volume/Weight Used Method of Installation Depth: Placed FROM ft. TO ft.**DRILLING LOG***

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation:
sandstone, shale, limestone, gravel, clay, sand, etc.

From

To

Red shale	144.0	169.5
Gray sandstone	169.5	175.0
Red shale	175.0	188.5
Gray shale	188.5	197.0
Sandy gray shale	197.0	209.5
Gray sandstone	209.5	229.0
Red shale	229.0	236.5
Gray sandstone	236.5	250.0

East

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
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