

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 069 - 00349 County OHIO District RICHLAND
Quad TILTONSVILLE 7.5', OH Pad Name ROTH-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number ROTH OHI 6H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,444,579.827 Easting 526,666.543
Landing Point of Curve Northing 4,445,297.371 Easting 526,551.100
Bottom Hole Northing 4,439,670.507 Easting 528,476.644

Elevation (ft) 1003.91' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

Date permit issued 9/7/2022 Date drilling commenced 12/17/2022 Date drilling ceased 01/11/2023
Date completion activities began 3/6/2023 Date completion activities ceased 4/25/2023
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 423' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1119' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 179' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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APPROVED

Reviewed by:
[Signature]
09/22/2023

API 47-069 - 00349 Farm name SWN PRODUCTION COMPANY, LLC Well number ROTH OHI 6H

| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/ N) * Provide details below* |
|---------------------------|-------------|-------------|--------|-------------|--------------|------------------|---------------------------------------------------------|
| Conductor | 24 | 20 | 136 | NEW | J-55/94# | | Y |
| Surface | 17.5 | 13.375 | 477 | NEW | J-55/54.5# | 139.5' / 337.47' | Y; 32 BBLS |
| Coal | SEE SURFACE | | | | | | |
| Intermediate 1 | 12.25 | 9.625 | 1,707 | NEW | J-55/36# | | Y; 34 BBLS |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8.50 | 5.5 | 26,617 | NEW | P-110 HP/20# | | N |
| Tubing | | 2.875 | 6,792 | NEW | P-110/6.5# | | N |
| Packer type and depth set | | | | | | | |

Comment Details _____

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|------------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor | CLASS A | GROUT TO SURFACE | | | | SURFACE | 24 |
| Surface | CLASS A | 252 | 15.60 | 1.20 | 302.4 | SURFACE | 8 |
| Coal | SEE SURFACE | | | | | | |
| Intermediate 1 | CLASS A | 638 | 15.60 | 1.20 | 765.6 | SURFACE | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | CLASS A | 6037 | 15.00 | 1.29 | 7787.73 | 970' | 24 |
| Tubing | | | | | | | |

Drillers TD (ft) 26,617' Loggers TD (ft) 26,617'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 26,530'
 Plug back procedure N/A

Kick off depth (ft) 5,518' MD

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

SURFACE: 0 CENTRALIZERS
 INTERMEDIATE: 22 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 625 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| | SEE | ATTACHMENT | 1 | | |
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| | SEE | ATTACHMENT | 2 | | | | | |
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| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | |
|-------------------------------|-------------------|-----------------|
| <u>MARCELLUS</u> | <u>5,593'</u> TVD | <u>6,800</u> MD |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2,463 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 2,048 mcfpd Oil 451 bpd NGL _____ bpd Water 2,736 bpd GAS MEASURED BY Estimated Orifice Pilot

| <u>LITHOLOGY/ FORMATION</u> | <u>TOP</u> | <u>BOTTOM</u> | <u>TOP</u> | <u>BOTTOM</u> | <u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u> |
|---------------------------------|---------------------------------|----------------------------|---------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------|
| | <u>DEPTH IN FT NAME TVD</u> | <u>DEPTH IN FT TVD</u> | <u>DEPTH IN FT MD</u> | <u>DEPTH IN FT MD</u> | |
| | <u>0</u> | | <u>0</u> | | |
| | <u>SEE</u> | <u>ATTACHMENT</u> | <u>3</u> | | |
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Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY
 Address PO BOX 12359 City SPRING State TX Zip 77391-2359
 Logging Company BAKER HUGHES
 Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380
 Cementing Company SCHLUMBERGER WELL SERVICES
 Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478
 Stimulating Company SWN WELL SERVICES
 Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
 Signature *Denise Grantham* Title REGULATORY SPECIALIST Date 7.6.2023

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry
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**ROTH OHI 6H
ATTACHMENT 1
PERF REPORT**

| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 1 | 3/1/2023 | 26,530 | 26,441 | 36 |
| 2 | 3/7/2023 | 26,407 | 26,230 | 36 |
| 3 | 3/8/2023 | 26,196 | 26,019 | 36 |
| 4 | 3/8/2023 | 25,986 | 25,808 | 36 |
| 5 | 3/9/2023 | 25,775 | 25,598 | 36 |
| 6 | 3/9/2023 | 25,565 | 25,387 | 36 |
| 7 | 3/9/2023 | 25,354 | 25,177 | 36 |
| 8 | 3/10/2023 | 25,144 | 24,966 | 36 |
| 9 | 3/10/2023 | 24,933 | 24,756 | 36 |
| 10 | 3/11/2023 | 24,722 | 24,545 | 36 |
| 11 | 3/11/2023 | 24,512 | 24,334 | 36 |
| 12 | 3/11/2023 | 24,301 | 24,124 | 36 |
| 13 | 3/12/2023 | 24,091 | 23,913 | 36 |
| 14 | 3/13/2023 | 23,880 | 23,703 | 36 |
| 15 | 3/14/2023 | 23,670 | 23,492 | 36 |
| 16 | 3/14/2023 | 23,459 | 23,282 | 36 |
| 17 | 3/14/2023 | 23,248 | 23,071 | 36 |
| 18 | 3/15/2023 | 23,038 | 22,860 | 36 |
| 19 | 3/15/2023 | 22,827 | 22,650 | 36 |
| 20 | 3/16/2023 | 22,617 | 22,439 | 36 |
| 21 | 3/16/2023 | 22,406 | 22,229 | 36 |
| 22 | 3/17/2023 | 22,196 | 22,018 | 36 |
| 23 | 3/17/2023 | 21,985 | 21,808 | 36 |
| 24 | 3/17/2023 | 21,774 | 21,597 | 36 |
| 25 | 3/17/2023 | 21,564 | 21,386 | 36 |
| 26 | 3/18/2023 | 21,353 | 21,176 | 36 |
| 27 | 3/18/2023 | 21,143 | 20,965 | 36 |
| 28 | 3/18/2023 | 20,932 | 20,755 | 36 |
| 29 | 3/19/2023 | 20,722 | 20,544 | 36 |
| 30 | 3/20/2023 | 20,511 | 20,334 | 36 |
| 31 | 3/20/2023 | 20,300 | 20,123 | 36 |
| 32 | 3/20/2023 | 20,090 | 19,912 | 36 |
| 33 | 3/21/2023 | 19,879 | 19,702 | 36 |
| 34 | 3/21/2023 | 19,669 | 19,491 | 36 |
| 35 | 3/21/2023 | 19,458 | 19,281 | 36 |
| 36 | 3/22/2023 | 19,248 | 19,070 | 36 |
| 37 | 3/22/2023 | 19,037 | 18,860 | 36 |
| 38 | 3/23/2023 | 18,826 | 18,649 | 36 |
| 39 | 3/23/2023 | 18,616 | 18,438 | 36 |
| 40 | 3/23/2023 | 18,405 | 18,228 | 36 |
| 41 | 3/24/2023 | 18,195 | 18,017 | 36 |
| 42 | 3/24/2023 | 17,984 | 17,807 | 36 |

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**ROTH OHI 6H
ATTACHMENT 1
PERF REPORT**

| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 43 | 3/24/2023 | 17,774 | 17,596 | 36 |
| 44 | 3/25/2023 | 17,563 | 17,386 | 36 |
| 45 | 3/25/2023 | 17,352 | 17,175 | 36 |
| 46 | 3/26/2023 | 17,142 | 16,964 | 36 |
| 47 | 3/26/2023 | 16,931 | 16,754 | 36 |
| 48 | 3/26/2023 | 16,721 | 16,543 | 36 |
| 49 | 3/27/2023 | 16,510 | 16,333 | 36 |
| 50 | 3/27/2023 | 16,300 | 16,122 | 36 |
| 51 | 3/27/2023 | 16,089 | 15,912 | 36 |
| 52 | 3/28/2023 | 15,879 | 15,701 | 36 |
| 53 | 3/28/2023 | 15,669 | 15,490 | 36 |
| 54 | 3/28/2023 | 15,457 | 15,280 | 36 |
| 55 | 3/28/2023 | 15,247 | 15,069 | 36 |
| 56 | 3/29/2023 | 15,036 | 14,859 | 36 |
| 57 | 3/29/2023 | 14,826 | 14,648 | 36 |
| 58 | 3/29/2023 | 14,615 | 14,438 | 36 |
| 59 | 3/30/2023 | 14,405 | 14,227 | 36 |
| 60 | 3/30/2023 | 14,194 | 14,016 | 36 |
| 61 | 3/30/2023 | 13,983 | 13,806 | 36 |
| 62 | 3/31/2023 | 13,773 | 13,595 | 36 |
| 63 | 3/31/2023 | 13,562 | 13,385 | 36 |
| 64 | 3/31/2023 | 13,352 | 13,174 | 36 |
| 65 | 4/1/2023 | 13,141 | 12,964 | 36 |
| 66 | 4/1/2023 | 12,931 | 12,753 | 36 |
| 67 | 4/2/2023 | 12,720 | 12,542 | 36 |
| 68 | 4/2/2023 | 12,509 | 12,332 | 36 |
| 69 | 4/2/2023 | 12,299 | 12,121 | 36 |
| 70 | 4/2/2023 | 12,088 | 11,911 | 36 |
| 71 | 4/3/2023 | 11,878 | 11,700 | 36 |
| 72 | 4/3/2023 | 11,667 | 11,490 | 36 |
| 73 | 4/3/2023 | 11,457 | 11,279 | 36 |
| 74 | 4/3/2023 | 11,246 | 11,068 | 36 |
| 75 | 4/4/2023 | 11,035 | 10,858 | 36 |
| 76 | 4/4/2023 | 10,825 | 10,647 | 36 |
| 77 | 4/4/2023 | 10,614 | 10,437 | 36 |
| 78 | 4/4/2023 | 10,404 | 10,226 | 36 |
| 79 | 4/4/2023 | 10,193 | 10,016 | 36 |
| 80 | 4/5/2023 | 9,983 | 9,805 | 36 |
| 81 | 4/5/2023 | 9,772 | 9,595 | 36 |
| 82 | 4/5/2023 | 9,561 | 9,384 | 36 |
| 83 | 4/6/2023 | 9,351 | 9,173 | 36 |
| 84 | 4/6/2023 | 9,140 | 8,963 | 36 |

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ROTH OHI 6H
ATTACHMENT 1
PERF REPORT

| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 85 | 4/6/2023 | 8,930 | 8,752 | 36 |
| 86 | 4/6/2023 | 8,719 | 8,542 | 36 |
| 87 | 4/7/2023 | 8,509 | 8,331 | 36 |
| 88 | 4/7/2023 | 8,298 | 8,121 | 36 |
| 89 | 4/7/2023 | 8,087 | 7,910 | 36 |
| 90 | 4/7/2023 | 7,877 | 7,699 | 36 |
| 91 | 4/8/2023 | 7,666 | 7,489 | 36 |
| 92 | 4/8/2023 | 7,456 | 7,278 | 36 |
| 93 | 4/8/2023 | 7,245 | 7,068 | 36 |
| 94 | 4/8/2023 | 7,035 | 6,857 | 36 |

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ROTH OHI 6H
ATTACHMENT 2
STIM REPORT

| STAGE NUM | Stim Date | Ave Pump Rate (BPM) | Ave Treatment | Max Breakdown | ISIP (PSI) | Amount of Proppant (lbs) | Amount of water bbls | Amount of nitrogen/other |
|-----------|-----------|---------------------|---------------|---------------|------------|--------------------------|----------------------|--------------------------|
| 1 | 3/6/2023 | 81.9 | 8,779 | 6,987 | 4,014 | 198,060 | 6,075 | 0 |
| 2 | 3/7/2023 | 92.8 | 9,352 | 5,780 | 4,450 | 367,000 | 10,606 | 0 |
| 3 | 3/8/2023 | 97.2 | 9,990 | 4,650 | 4,258 | 367,000 | 9,939 | 0 |
| 4 | 3/8/2023 | 92.1 | 9,625 | 4,390 | 5,782 | 367,000 | 9,540 | 0 |
| 5 | 3/9/2023 | 97.2 | 9,730 | 4,747 | 4,674 | 369,380 | 9,358 | 0 |
| 6 | 3/9/2023 | 87.7 | 9,388 | 5,780 | 4,320 | 337,520 | 9,313 | 0 |
| 7 | 3/9/2023 | 92.6 | 9,880 | 6,070 | 4,560 | 367,000 | 9,301 | 0 |
| 8 | 3/10/2023 | 97.2 | 9,836 | 5,911 | 3,852 | 365,080 | 9,060 | 0 |
| 9 | 3/11/2023 | 93.8 | 9,360 | 5,995 | 4,430 | 367,000 | 9,406 | 0 |
| 10 | 3/11/2023 | 89.2 | 9,665 | 6,332 | 4,210 | 367,000 | 8,790 | 0 |
| 11 | 3/11/2023 | 87.6 | 8,964 | 6,137 | 4,852 | 367,000 | 9,390 | 0 |
| 12 | 3/12/2023 | 78.3 | 8,843 | 6,450 | 4,200 | 367,000 | 9,623 | 0 |
| 13 | 3/13/2023 | 95.9 | 9,969 | 6,005 | 4,582 | 367,000 | 9,296 | 0 |
| 14 | 3/14/2023 | 97.7 | 9,759 | 6,470 | 4,652 | 367,000 | 9,119 | 0 |
| 15 | 3/14/2023 | 93.1 | 9,445 | 5,976 | 4,310 | 367,000 | 9,579 | 0 |
| 16 | 3/14/2023 | 97.4 | 9,361 | 5,859 | 4,425 | 367,000 | 8,891 | 0 |
| 17 | 3/15/2023 | 95.7 | 10,024 | 5,448 | 4,676 | 307,000 | 8,050 | 0 |
| 18 | 3/15/2023 | 91.8 | 9,159 | 5,832 | 4,469 | 367,000 | 8,520 | 0 |
| 19 | 3/16/2023 | 89.2 | 8,919 | 6,120 | 4,734 | 360,480 | 8,773 | 0 |
| 20 | 3/16/2023 | 91.8 | 8,725 | 5,923 | 4,285 | 367,000 | 9,229 | 0 |
| 21 | 3/17/2023 | 88.7 | 8,944 | 6,321 | 4,340 | 367,000 | 9,200 | 0 |
| 22 | 3/17/2023 | 83.5 | 8,877 | 5,981 | 4,612 | 367,000 | 8,876 | 0 |
| 23 | 3/17/2023 | 88.7 | 8,571 | 5,968 | 4,395 | 367,000 | 8,841 | 0 |
| 24 | 3/17/2023 | 88.4 | 8,773 | 5,984 | 4,276 | 367,000 | 8,887 | 0 |
| 25 | 3/18/2023 | 89.5 | 8,637 | 6,024 | 4,626 | 367,000 | 9,288 | 0 |
| 26 | 3/18/2023 | 91.6 | 8,665 | 4,677 | 4,462 | 367,000 | 8,778 | 0 |
| 27 | 3/18/2023 | 93.4 | 9,079 | 6,160 | 4,912 | 367,000 | 8,935 | 0 |
| 28 | 3/19/2023 | 79.6 | 8,538 | 5,894 | 4,951 | 367,000 | 8,697 | 0 |
| 29 | 3/19/2023 | 79.3 | 9,322 | 5,845 | 4,291 | 367,000 | 11,136 | 0 |
| 30 | 3/20/2023 | 90.8 | 8,330 | 5,652 | 4,510 | 367,000 | 8,552 | 0 |
| 31 | 3/20/2023 | 96.9 | 8,612 | 5,937 | 4,652 | 367,000 | 8,610 | 0 |
| 32 | 3/20/2023 | 93.9 | 8,570 | 5,512 | 5,049 | 367,000 | 8,812 | 0 |
| 33 | 3/21/2023 | 97.5 | 8,683 | 4,984 | 4,798 | 367,000 | 8,216 | 0 |
| 34 | 3/21/2023 | 97.5 | 8,791 | 5,999 | 4,522 | 367,000 | 8,280 | 0 |
| 35 | 3/22/2023 | 97 | 8,490 | 5,922 | 4,614 | 367,000 | 8,465 | 0 |
| 36 | 3/22/2023 | 97.5 | 8,862 | 5,891 | 4,752 | 367,000 | 8,256 | 0 |
| 37 | 3/22/2023 | 91.7 | 8,691 | 5,753 | 5,019 | 367,000 | 8,358 | 0 |
| 38 | 3/23/2023 | 94 | 8,612 | 5,518 | 4,652 | 367,000 | 8,406 | 0 |
| 39 | 3/23/2023 | 96.5 | 8,705 | 6,125 | 4,912 | 367,000 | 8,279 | 0 |
| 40 | 3/24/2023 | 93.6 | 8,337 | 6,178 | 4,259 | 367,000 | 8,642 | 0 |
| 41 | 3/24/2023 | 95.6 | 8,187 | 6,458 | 4,469 | 367,000 | 8,063 | 0 |
| 42 | 3/24/2023 | 94.6 | 8,135 | 5,909 | 4,816 | 367,000 | 8,435 | 0 |
| 43 | 3/25/2023 | 90.6 | 8,202 | 6,374 | 5,146 | 367,000 | 8,122 | 0 |
| 44 | 3/25/2023 | 98.4 | 8,162 | 5,933 | 4,458 | 367,000 | 8,103 | 0 |
| 45 | 3/26/2023 | 94.7 | 8,293 | 5,699 | 4,829 | 367,000 | 8,256 | 0 |
| 46 | 3/26/2023 | 98.4 | 8,187 | 5,368 | 4,512 | 367,000 | 8,073 | 0 |
| 47 | 3/26/2023 | 95.9 | 7,897 | 5,350 | 4,556 | 367,000 | 8,338 | 0 |
| 48 | 3/26/2023 | 94.6 | 8,399 | 5,507 | 4,344 | 367,000 | 8,265 | 0 |
| 49 | 3/27/2023 | 97.8 | 21,322 | 5,780 | 4,476 | 367,000 | 8,128 | 0 |
| 50 | 3/27/2023 | 98.6 | 8,211 | 6,123 | 4,091 | 367,000 | 8,304 | 0 |
| 51 | 3/27/2023 | 94.7 | 8,396 | 5,321 | 4,612 | 367,000 | 8,055 | 0 |
| 52 | 3/28/2023 | 98 | 8,155 | 5,482 | 4,815 | 367,000 | 7,858 | 0 |
| 53 | 3/28/2023 | 96.9 | 8,147 | 6,114 | 4,512 | 367,000 | 7,864 | 0 |

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**ROTH OHI 6H
ATTACHMENT 2
STIM REPORT**

| STAGE NUM | Stim Date | Ave Pump Rate (BPM) | Ave Treatment | Max Breakdown | ISIP (PSI) | Amount of Proppant (lbs) | Amount of water bbls | Amount of nitrogen/othe |
|-----------|-----------|---------------------|---------------|---------------|------------|--------------------------|----------------------|-------------------------|
| 54 | 3/28/2023 | 95.6 | 8,209 | 5,409 | 4,726 | 367,000 | 8,139 | 0 |
| 55 | 3/29/2023 | 95.7 | 8,132 | 5,299 | 5,020 | 367,000 | 8,134 | 0 |
| 56 | 3/29/2023 | 96.1 | 7,708 | 5,678 | 5,600 | 367,000 | 8,279 | 0 |
| 57 | 3/29/2023 | 94.1 | 7,657 | 5,470 | 4,579 | 367,000 | 8,107 | 0 |
| 58 | 3/30/2023 | 95.5 | 8,168 | 5,920 | 4,283 | 367,000 | 8,252 | 0 |
| 59 | 3/30/2023 | 60.1 | 4,915 | 4,852 | 4,599 | 367,000 | 10,858 | 0 |
| 60 | 3/30/2023 | 95.5 | 7,864 | 5,440 | 4,406 | 367,000 | 7,674 | 0 |
| 61 | 3/31/2023 | 96.1 | 7,594 | 5,068 | 4,125 | 367,000 | 8,154 | 0 |
| 62 | 3/31/2023 | 97.9 | 7,647 | 5,241 | 5,210 | 367,000 | 8,025 | 0 |
| 63 | 3/31/2023 | 87.8 | 7,154 | 5,380 | 4,520 | 367,000 | 7,982 | 0 |
| 64 | 4/1/2023 | 87.4 | 7,309 | 5,920 | 4,658 | 367,000 | 8,621 | 0 |
| 65 | 4/1/2023 | 98 | 7,583 | 5,321 | 4,415 | 367,000 | 8,159 | 0 |
| 66 | 4/1/2023 | 96.5 | 7,248 | 5,010 | 4,320 | 367,000 | 8,094 | 0 |
| 67 | 4/2/2023 | 99.9 | 7,395 | 5,198 | 4,752 | 367,000 | 7,881 | 0 |
| 68 | 4/2/2023 | 98 | 7,284 | 5,540 | 4,352 | 367,000 | 8,152 | 0 |
| 69 | 4/2/2023 | 96.5 | 7,377 | 5,640 | 4,270 | 369,000 | 8,244 | 0 |
| 70 | 4/3/2023 | 95 | 7,271 | 6,011 | 4,506 | 367,000 | 8,031 | 0 |
| 71 | 4/3/2023 | 97.9 | 7,438 | 5,689 | 4,525 | 367,000 | 7,926 | 0 |
| 72 | 4/3/2023 | 98 | 7,097 | 5,620 | 5,210 | 367,000 | 7,943 | 0 |
| 73 | 4/3/2023 | 96.1 | 7,105 | 5,549 | 4,254 | 367,000 | 7,938 | 0 |
| 74 | 4/4/2023 | 96.6 | 7,063 | 5,346 | 4,735 | 367,000 | 7,922 | 0 |
| 75 | 4/4/2023 | 96.6 | 7,034 | 5,536 | 4,425 | 367,000 | 7,843 | 0 |
| 76 | 4/4/2023 | 98.6 | 7,005 | 4,883 | 4,585 | 367,000 | 8,039 | 0 |
| 77 | 4/4/2023 | 96.5 | 7,157 | 5,192 | 4,405 | 367,000 | 7,850 | 0 |
| 78 | 4/4/2023 | 96.4 | 6,733 | 5,297 | 4,776 | 367,000 | 7,878 | 0 |
| 79 | 4/5/2023 | 94.2 | 6,747 | 5,461 | 4,701 | 367,000 | 7,643 | 0 |
| 80 | 4/5/2023 | 97.9 | 6,956 | 4,952 | 4,425 | 367,000 | 7,868 | 0 |
| 81 | 4/5/2023 | 95.9 | 6,632 | 5,297 | 4,707 | 367,000 | 7,578 | 0 |
| 82 | 4/6/2023 | 96.7 | 6,604 | 5,689 | 4,064 | 367,000 | 7,750 | 0 |
| 83 | 4/6/2023 | 94.2 | 6,359 | 4,931 | 4,685 | 367,000 | 7,660 | 0 |
| 84 | 4/6/2023 | 98.7 | 6,707 | 5,120 | 4,752 | 367,000 | 7,461 | 0 |
| 85 | 4/6/2023 | 93.9 | 6,446 | 5,152 | 4,125 | 367,000 | 7,719 | 0 |
| 86 | 4/7/2023 | 92.6 | 6,172 | 5,351 | 4,405 | 367,000 | 7,505 | 0 |
| 87 | 4/7/2023 | 99.9 | 6,462 | 4,936 | 4,528 | 367,000 | 7,496 | 0 |
| 88 | 4/7/2023 | 68.8 | 8,954 | 4,906 | 5,142 | 6,270 | 2,666 | 0 |
| 89 | 4/7/2023 | 94.1 | 5,888 | 4,807 | 5,001 | 367,000 | 8,152 | 0 |
| 90 | 4/8/2023 | 96.4 | 6,226 | 5,027 | 4,751 | 367,000 | 7,518 | 0 |
| 91 | 4/8/2023 | 99.3 | 6,448 | 4,862 | 4,352 | 367,000 | 7,523 | 0 |
| 92 | 4/8/2023 | 98.9 | 6,342 | 5,260 | 4,358 | 367,000 | 7,108 | 0 |
| 93 | 4/8/2023 | 99 | 6,307 | 5,234 | 4,258 | 367,000 | 7,108 | 0 |
| 94 | 4/8/2023 | 95.5 | 6,073 | 5,407 | 4,279 | 367,000 | 7,756 | 0 |

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Environmental Protection

09/22/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|--------------------------------|---------------------|
| Job Start Date: | 3/7/2023 |
| Job End Date: | 4/9/2023 |
| State: | West Virginia |
| County: | Ohio |
| API Number: | 47-069-00348-00-00 |
| Operator Name: | Southwestern Energy |
| Well Name and Number: | ROTH OHI 8 |
| Latitude: | 40.15113978 |
| Longitude: | -80.68687069 |
| Datum: | NAD83 |
| Federal Well: | NO |
| Indian Well: | NO |
| True Vertical Depth: | 5,753 |
| Total Base Water Volume (gal): | 28,362,742 |
| Total Base Non Water Volume: | 0 |



Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|------------|--------------|--------------|-------------|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------|
| Base Water | Operator | Base Fluid | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 88.28072 | Density = 8.345 |
| Ingredient | Listed Above | Listed Above | | | | | |
| | | | Water | 7732-18-5 | 85.00000 | 0.30469 | |

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| | | | | | | | |
|----------------|-------------------|---------------------|-------|--------------|-----------|---------|--|
| | | | Water | 7732-18-5 | 45.00000 | 0.30469 | |
| | | | Water | 7732-18-5 | 100.00000 | 0.30469 | |
| HCL | SWN Well Services | Solvent | | | | | |
| | | | | Listed Below | | | |
| Tolicide 4Frac | SWN Well Services | Biocide | | | | | |
| | | | | Listed Below | | | |
| FSTI-CI-02 | SWN Well Services | Corrosion Inhibitor | | | | | |
| | | | | Listed Below | | | |
| Ferriplex 80 | SWN Well Services | Iron Control | | | | | |
| | | | | Listed Below | | | |
| PLEXSLICK 930 | SWN Well Services | Friction Reducer | | | | | |
| | | | | Listed Below | | | |
| Sand | SWN Well Services | Proppant | | | | | |
| | | | | Listed Below | | | |
| Plexaid 65WG | SWN Well Services | Scale Inhibitor | | | | | |
| | | | | Listed Below | | | |

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

| | | | | | | | |
|--|--|--|----------------------------|------------|-----------|----------|--|
| | | | Crystalline Silica, quartz | 14808-60-7 | 100.00000 | 11.32070 | |
| | | | Hydrochloric Acid | 7647-01-0 | 15.00000 | 0.04296 | |

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| | | | | | | | |
|--|--|--|------------------------------------------------------------------|------------|-----------|---------|--|
| | | | Tetrakis(Hydroxymethyl) Phosphonium Sulfate | 55566-30-8 | 45.00000 | 0.00502 | |
| | | | Sodium Erythorbate | 6381-77-7 | 100.00000 | 0.00128 | |
| | | | Quaternary ammonium compounds | 68424-85-1 | 7.50000 | 0.00084 | |
| | | | Ethanol | 64-17-5 | 2.50000 | 0.00028 | |
| | | | Ethylene glycol | 107-21-1 | 40.00000 | 0.00015 | |
| | | | N,N-Dimethylformamide | 68-12-2 | 10.00000 | 0.00004 | |
| | | | Cinnamaldehyde | 104-55-2 | 10.00000 | 0.00004 | |
| | | | Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- | 9016-45-9 | 10.00000 | 0.00004 | |
| | | | benzyl chloridequaternized | 72480-70-7 | 5.00000 | 0.00002 | |
| | | | Triethyl phosphate | 78-40-0 | 5.00000 | 0.00002 | |
| | | | 2-Butoxyethanol | 111-76-2 | 5.00000 | 0.00002 | |
| | | | 1-Decanol | 112-30-1 | 5.00000 | 0.00002 | |
| | | | 1-Octanol | 111-87-5 | 5.00000 | 0.00002 | |
| | | | Isopropyl alcohol | 67-63-0 | 5.00000 | 0.00002 | |

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

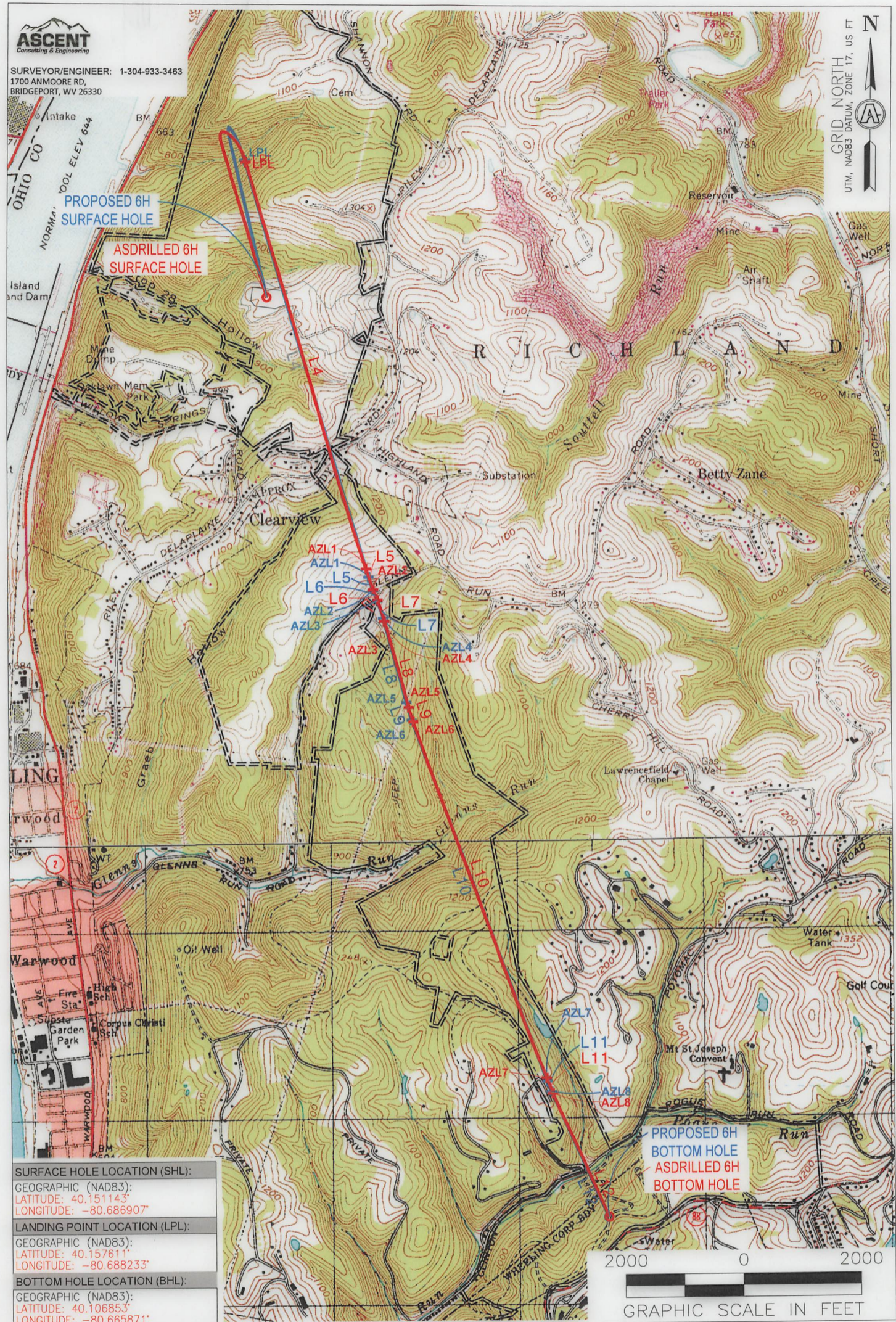
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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 WV Department of
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SURVEYOR/ENGINEER: 1-304-933-3463
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BRIDGEPORT, WV 26330

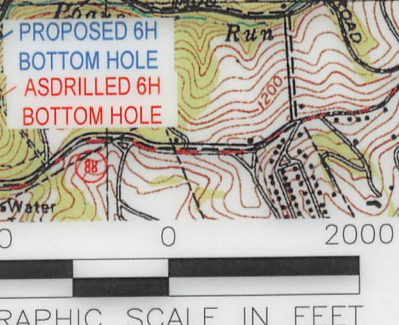
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.151143°
LONGITUDE: -80.686907°

LANDING POINT LOCATION (LPL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.157611°
LONGITUDE: -80.688233°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.106853°
LONGITUDE: -80.665871°



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- ☉ PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- ⊕ EXISTING WATER WELL
- ⊖ EXISTING SPRING
- SURVEYED BOUNDARY
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH
- DHP BUFFER

09/22/2023

| | | | |
|-------------------------------------------------|-----------------------------------------------|-----------------------|-------------------------|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | WELL (FARM) NAME: ROTH OHI | WELL # 6H | SERIAL # XXXX |
| ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 | COUNTY - CODE OHIO - 35 | DISTRICT; RICHLAND | |
| SURFACE OWNER: ROTH FARMS, LLC | USGS 7 1/2 QUADRANGLE MAP NAME TILTONVILLE | API: 47-069-00349 | |

LATITUDE: 40°10'00" SURFACE HOLE 5,654'

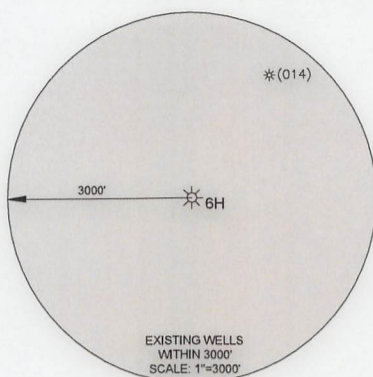
BOTTOM HOLE 11,430'

LATITUDE: 40°07'30"

SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330



Table with 4 columns: LOCATION (SHL, LPL, BHL), UTM (NAD83, ZONE 17, METERS), NORTHING, EASTING. Rows include Surface Hole Location, Landing Point, and Bottom Hole for both SHL and BHL.



BOTTOM HOLE 66'10" SURFACE HOLE 5,656' LONGITUDE: 80°37'30" LONGITUDE: 80°40'00"

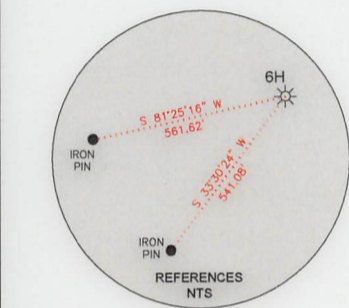


Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Rows L1 and L2 for SHL to Monument.

Table with 5 columns: LINE, BEARING, DISTANCE, CURVE LENGTH, DESCRIPTION. Rows L3 through L12 detailing well path segments.

WELL RESTRICTIONS

- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

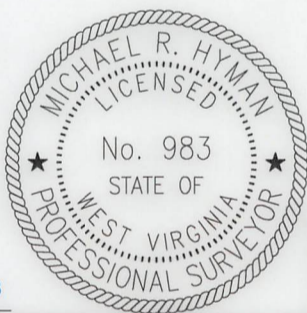
NOTES ON SURVEY

- 1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE WV NORTH ZONE NAD '83.
2. WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.
3. BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
5. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signature of Michael R. Hyman

06-14-2023



COMPANY:

SWN



Production Company™

Table with 3 columns: State of West Virginia information (WVDEP, Office of Oil & Gas), Accuracy (1/200), and Well Information (Operator's Well #: 6H, API Well #: 47 069 00349).

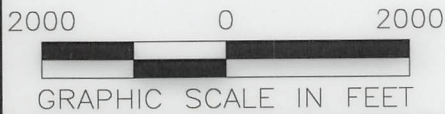
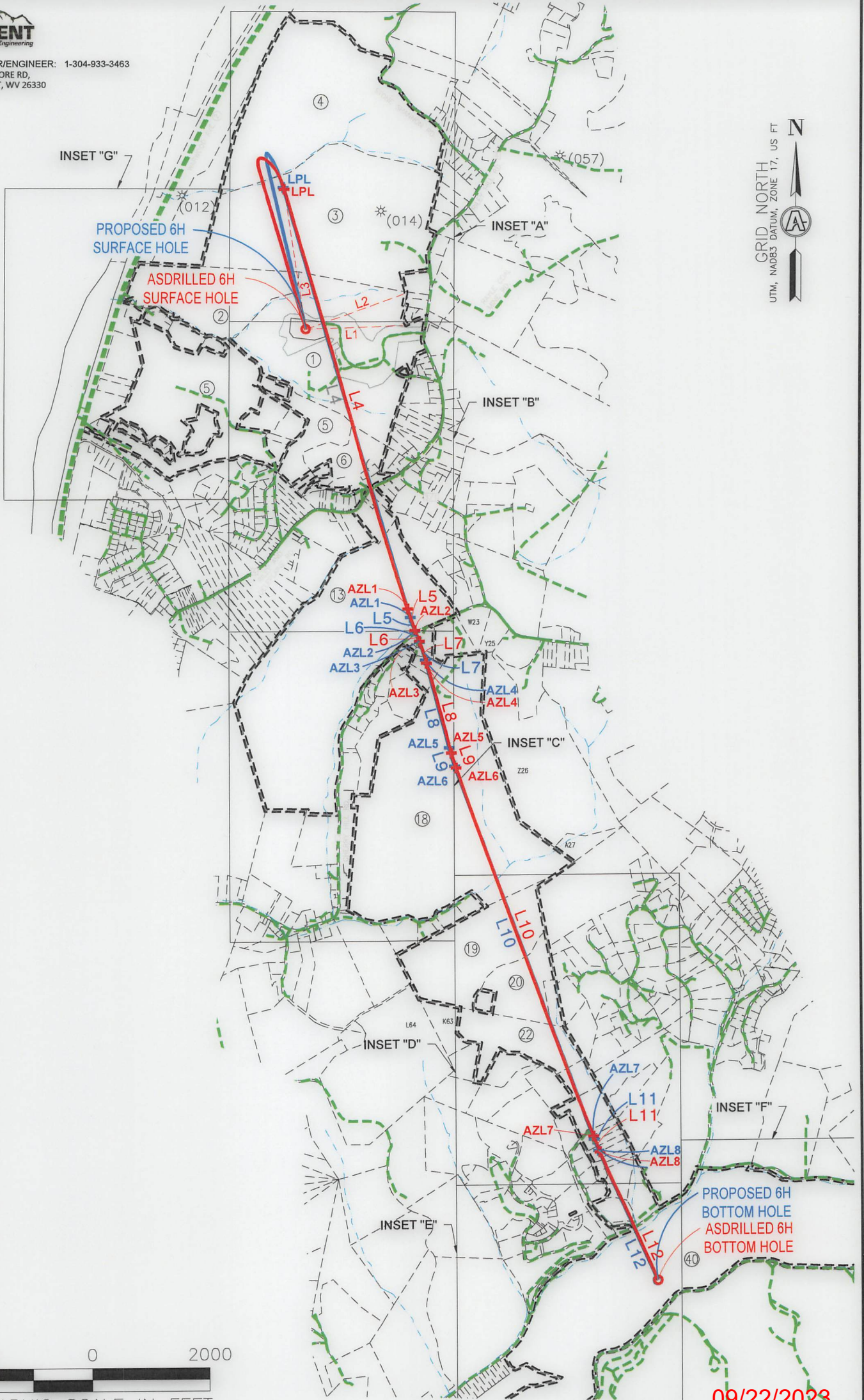
Form with fields for Well Type (Production checked), Watershed (Upper Ohio-Wheeling), District (Richland), County (Ohio), Surface Owner (Roth Farms, LLC), Oil & Gas Royalty Owner (Roth Farms, LLC), Drill type (Drill checked), Target Formation (Marcellus), and Estimated Depth (509/22/2023 TMD).

Form with fields for Well Operator (SWN Production Company, LLC), Designated Agent (Brittany Woody), Address (1300 Fort Pierpont Drive, Suite 201), City (Morgantown), State (WV), and Zip Code (26508).

Table with 2 columns: LEGEND (Proposed Surface Hole, Existing Wellhead, Landing Point, etc.) and REVISIONS (Date: 06-14-2023, File No., Drawn By: TMF, Scale: 1" = 2000', Drawing No: 2257, Well Location Plat 1).



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

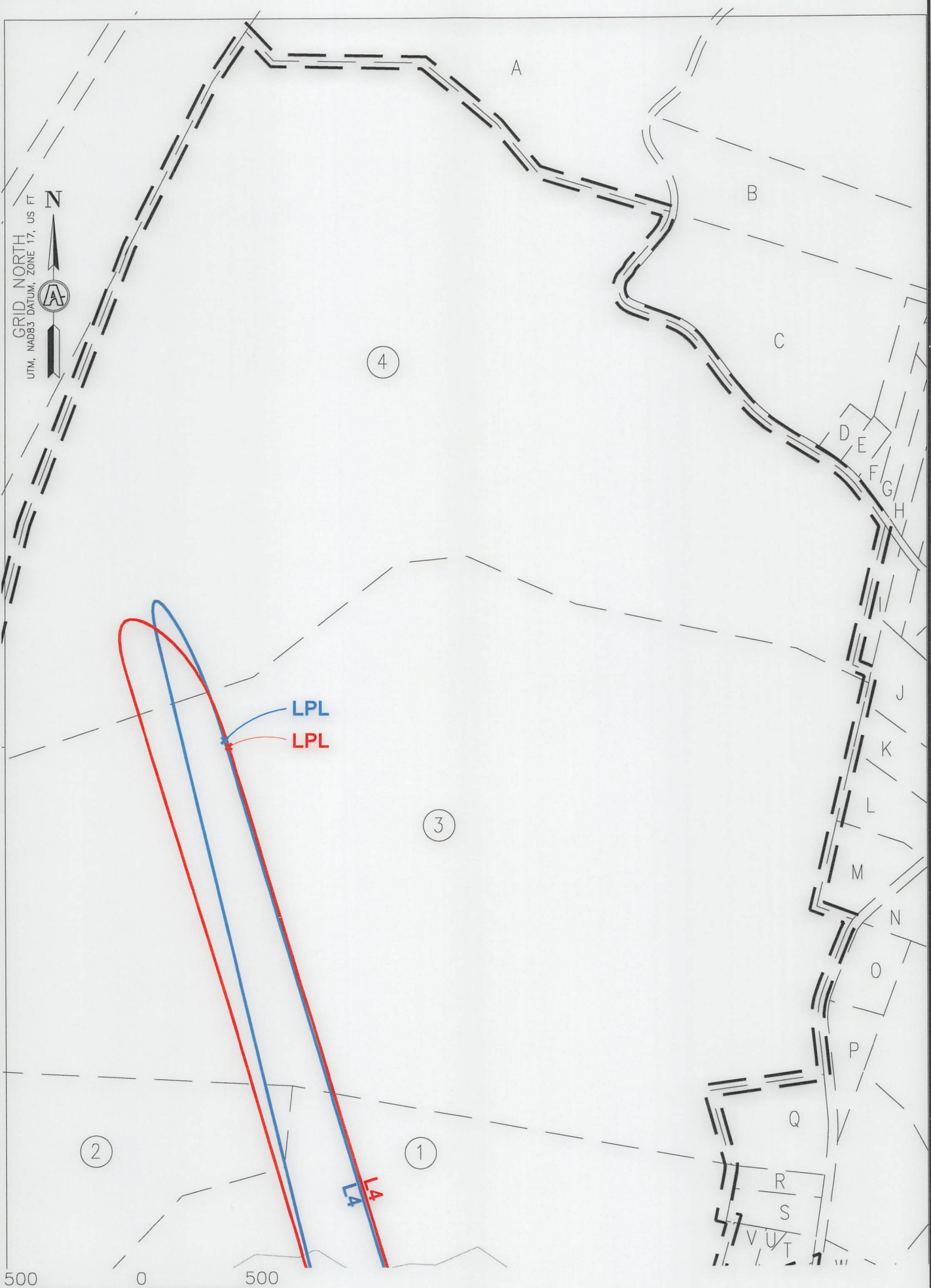


09/22/2023

| | | | | | |
|------------|--|----------|--|----------------------|--|
| REVISIONS: | | COMPANY: | | | |
| | | | | | |
| OPERATOR'S | | ROTH OHI | | API: | |
| WELL #: | | 6H | | 47-069-00349 | |
| DISTRICT: | | COUNTY: | | DATE: | |
| RICHLAND | | OHIO | | 06-14-2023 | |
| | | STATE: | | DRAWN BY: | |
| | | WV | | TMF | |
| | | | | SCALE: | |
| | | | | 1"=2000' | |
| | | | | DRAWING NO: | |
| | | | | ACE-2598 | |
| | | | | WELL LOCATION PLAT 2 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



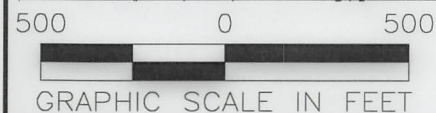
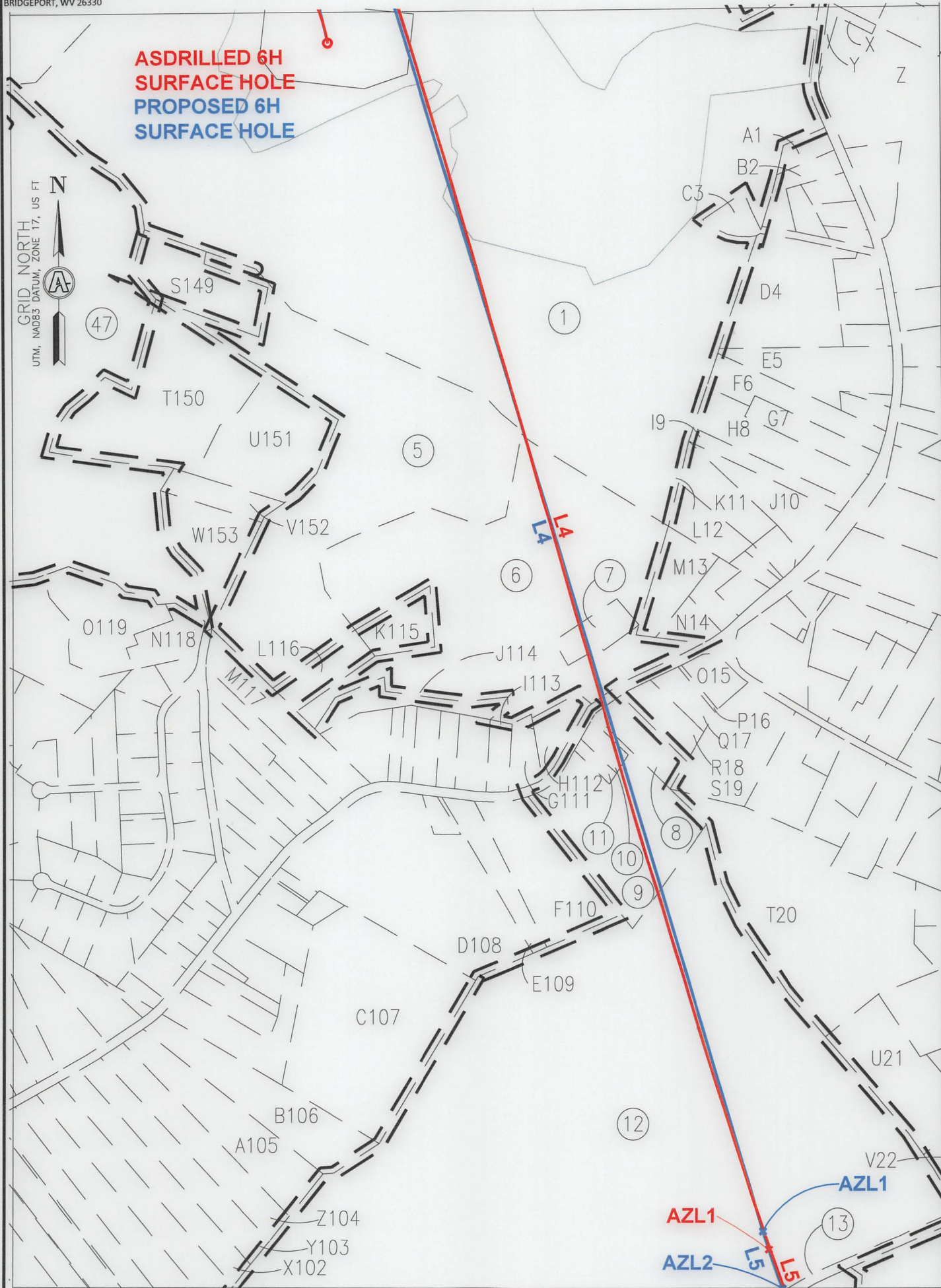
INSET "A"

09/22/2023

| | | | | |
|------------|------------|---------|--------|--------------------|
| REVISIONS: | COMPANY: | | | |
| | OPERATOR'S | | | |
| | WELL #: | | API: | DATE: |
| | DISTRICT: | COUNTY: | STATE: | WELL LOCATION PLAT |
| | RICHLAND | OHIO | WV | 3 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



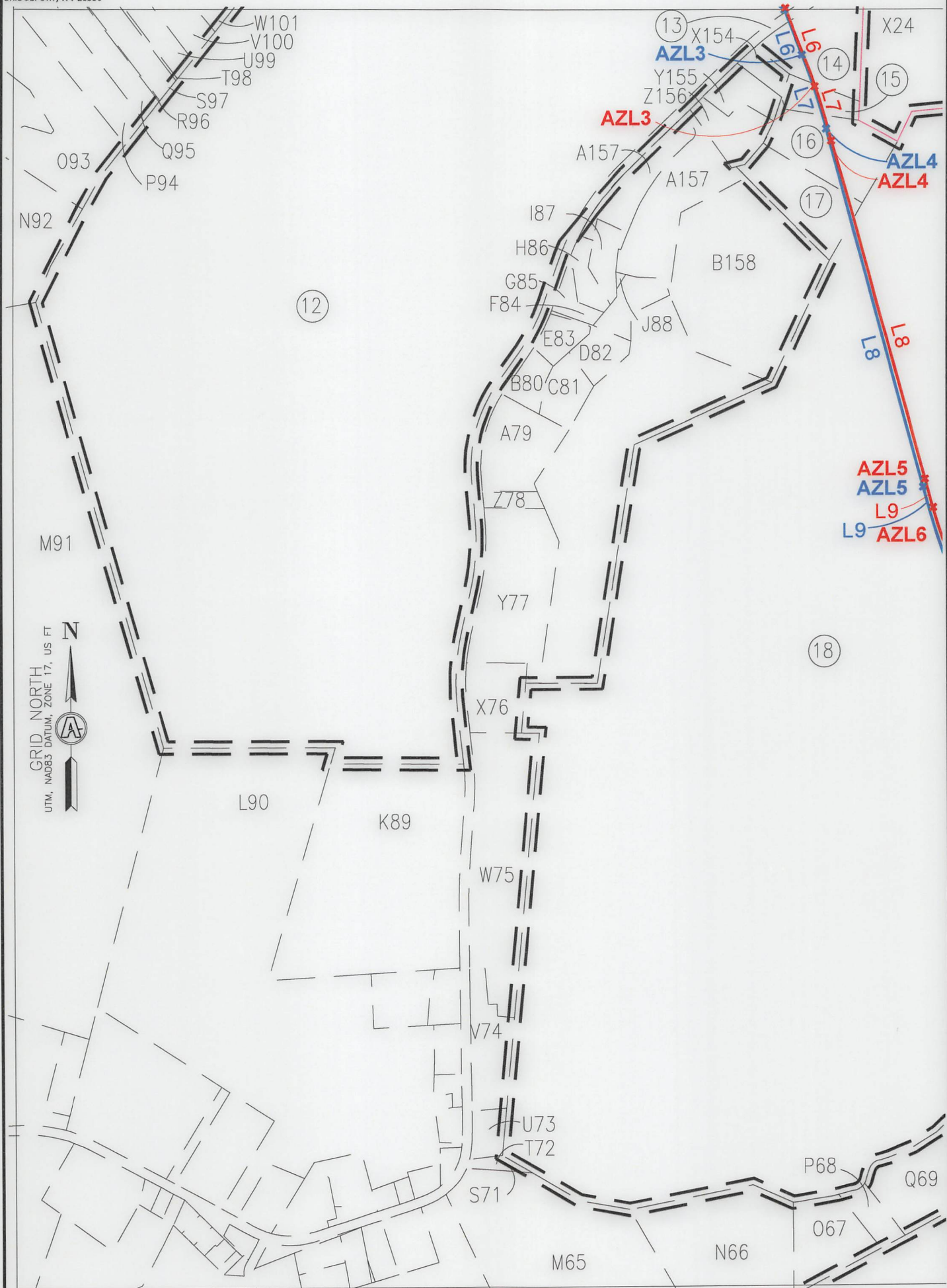
INSET "B"

09/22/2023

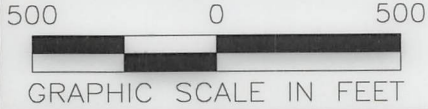
| | | | | | | | |
|------------|--|----------|--|--------------|--|----------------------|--|
| REVISIONS: | | COMPANY: | | | | | |
| OPERATOR'S | | ROTH OHI | | API: | | DATE: 06-14-2023 | |
| WELL #: | | 6H | | 47-069-00349 | | DRAWN BY: TMF | |
| DISTRICT: | | COUNTY: | | STATE: | | SCALE: 1"=500' | |
| RICHLAND | | OHIO | | WV | | DRAWING NO: ACE-2598 | |
| | | | | | | WELL LOCATION PLAT 4 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



GRID NORTH US FT
 UTM, NAD83 DATUM, ZONE 17, (A)



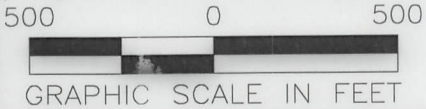
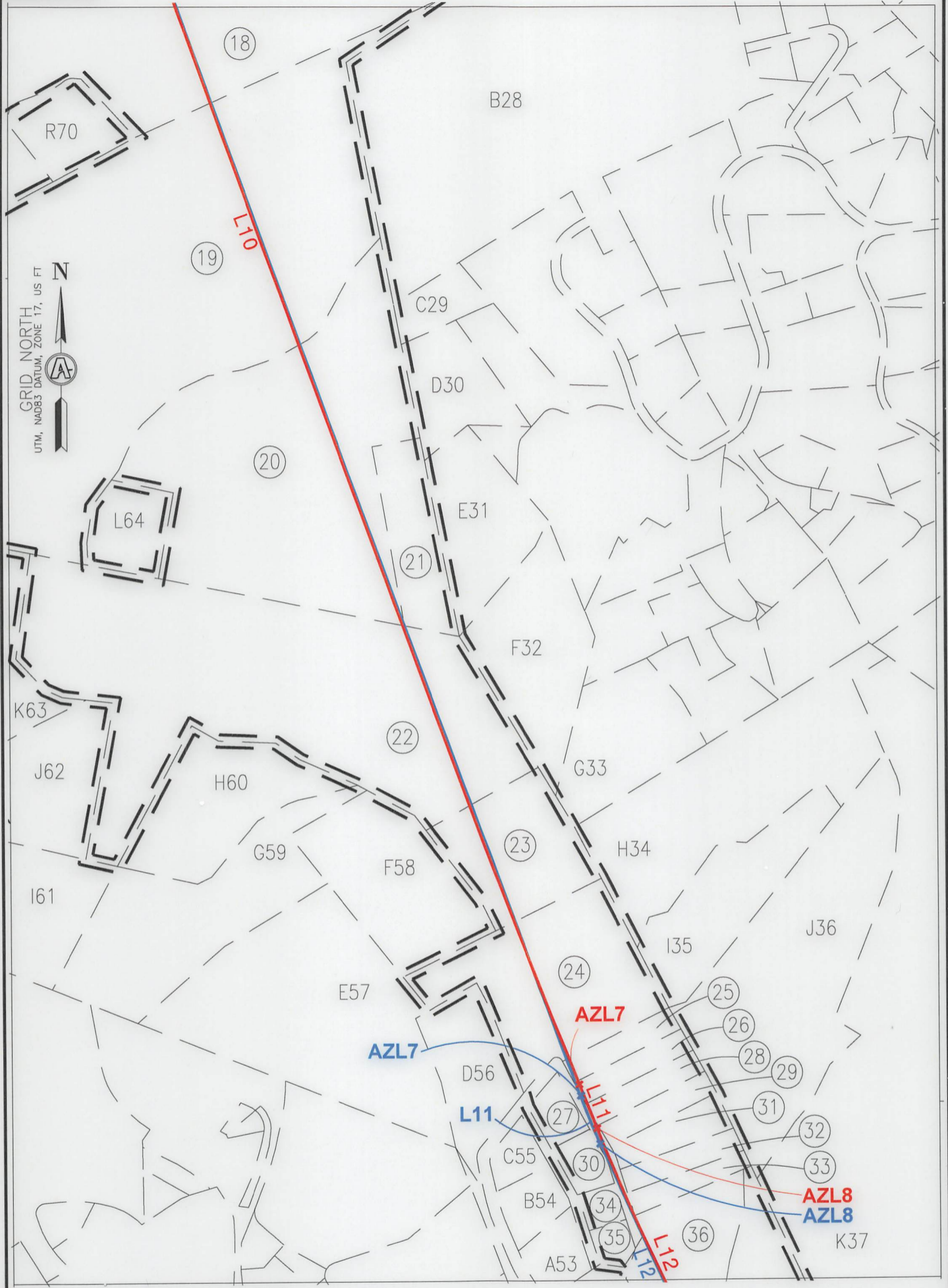
INSET "C"

09/22/2023

| | | | | | |
|------------|--|----------|--|----------------------|--|
| REVISIONS: | | COMPANY: | | | |
| | | | | DATE: 06-14-2023 | |
| OPERATOR'S | | ROTH OHI | | API: | |
| WELL #: | | 6H | | 47-069-00349 | |
| DISTRICT: | | COUNTY: | | STATE: | |
| RICHLAND | | OHIO | | WV | |
| | | | | DRAWN BY: TMF | |
| | | | | SCALE: 1"=500' | |
| | | | | DRAWING NO: ACE-2598 | |
| | | | | WELL LOCATION PLAT 5 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



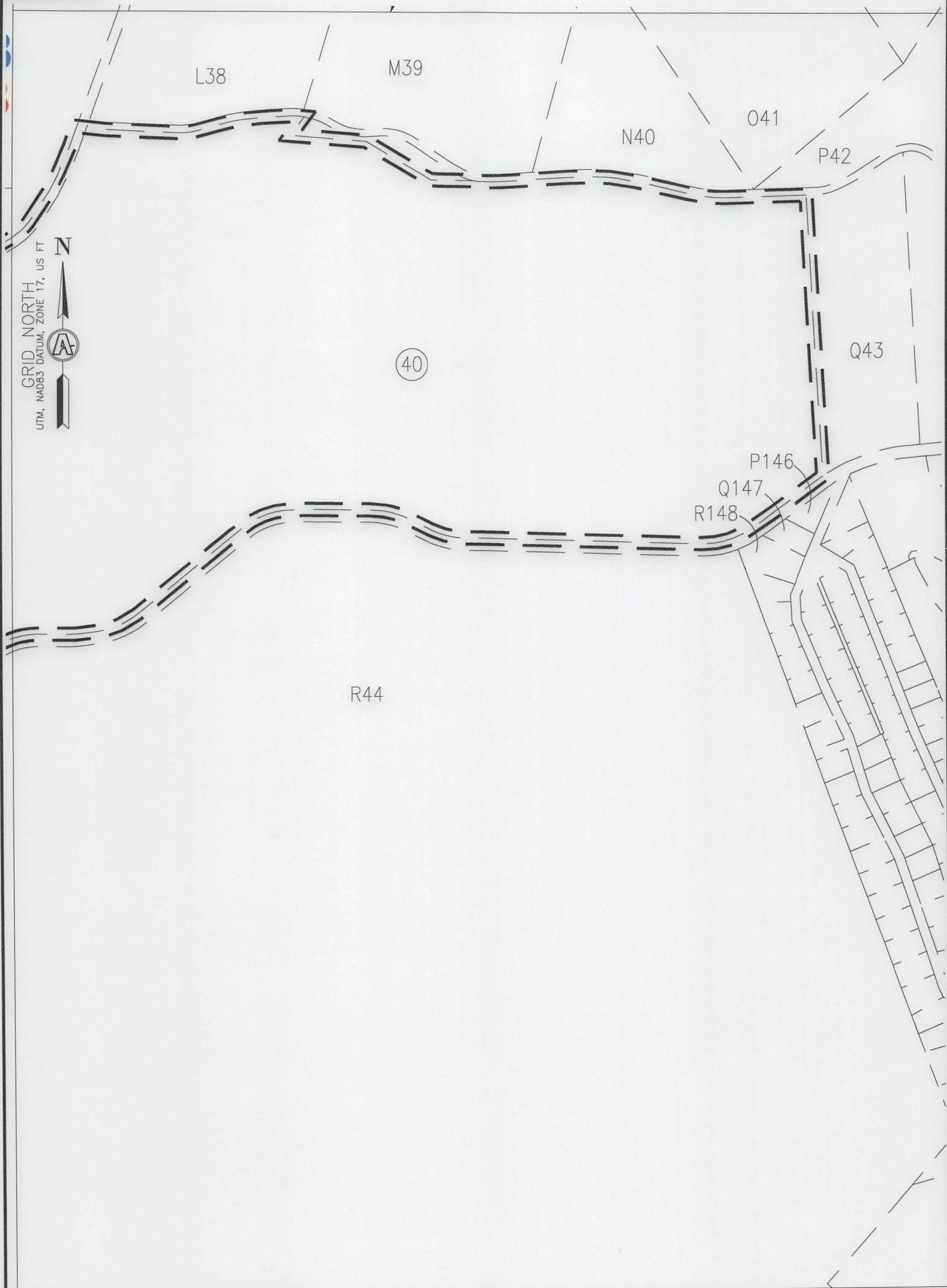
INSET "D"

09/22/2023

| | | | | | |
|------------|--|----------|--|----------------------|--|
| REVISIONS: | | COMPANY: | | | |
| | | | | DATE: 06-14-2023 | |
| OPERATOR'S | | ROTH OHI | | API: | |
| WELL #: | | 6H | | 47-069-00349 | |
| DISTRICT: | | COUNTY: | | STATE: | |
| RICHLAND | | OHIO | | WV | |
| | | | | DRAWN BY: TMF | |
| | | | | SCALE: 1"=500' | |
| | | | | DRAWING NO: ACE-2598 | |
| | | | | WELL LOCATION PLAT 6 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



500 0 500



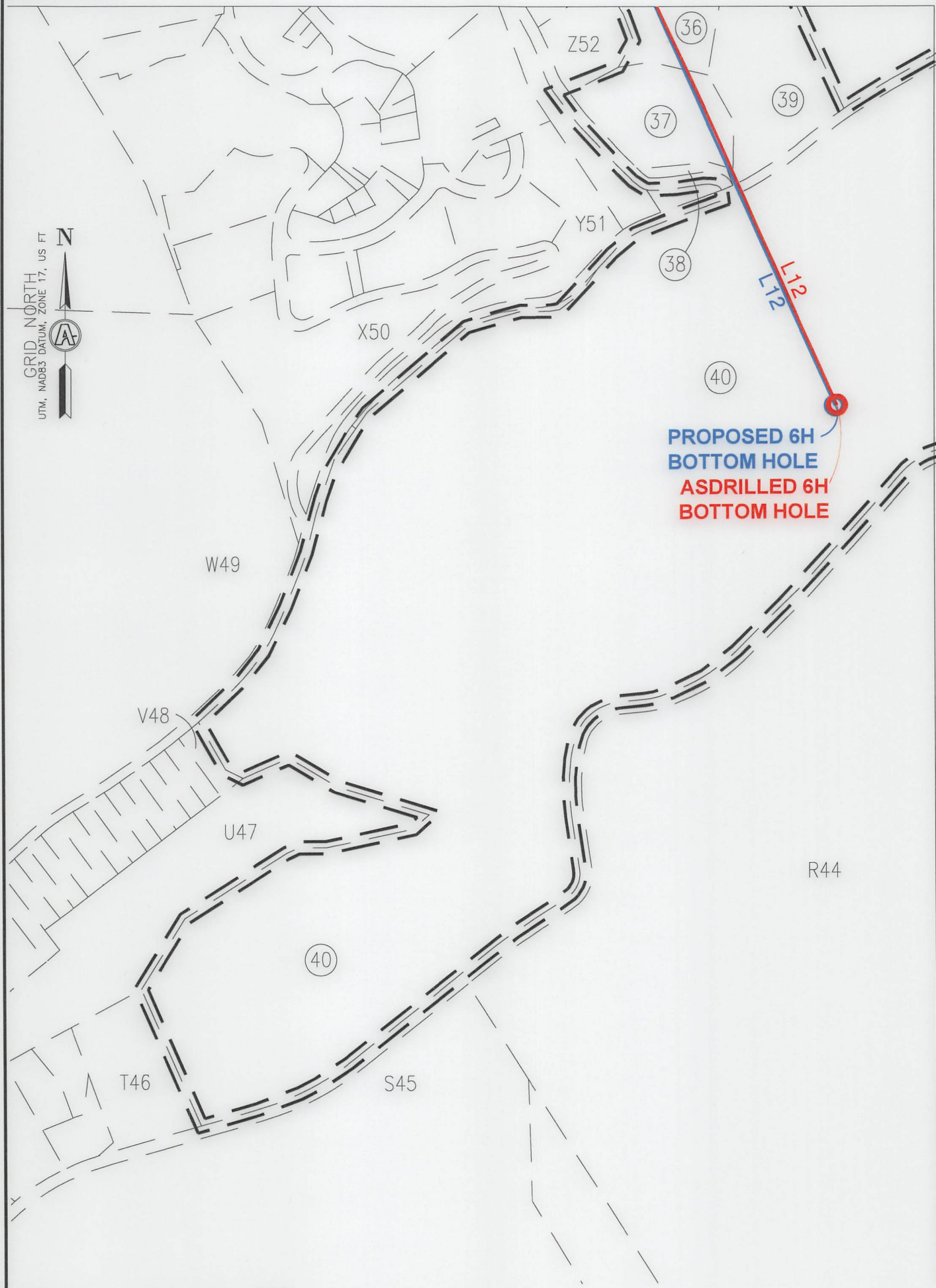
INSET "E"

09/22/2023

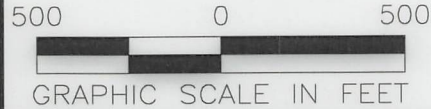
| | | | | |
|------------|------------|--------------|----------------------|-------|
| REVISIONS: | COMPANY: | | | |
| | OPERATOR'S | | | |
| | WELL #: | | ROTH OHI 6H | |
| | DISTRICT: | COUNTY: | API: | DATE: |
| RICHLAND | OHIO | 47-069-00349 | 06-14-2023 | |
| | | STATE: | DRAWN BY: | |
| | | WV | TMF | |
| | | | SCALE: | |
| | | | 1"=500' | |
| | | | DRAWING NO: | |
| | | | ACE-2598 | |
| | | | WELL LOCATION PLAT 7 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD.
 BRIDGEPORT, WV 26330



GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT



INSET "F"

09/22/2023

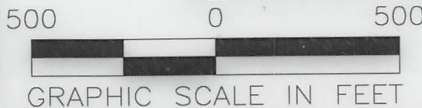
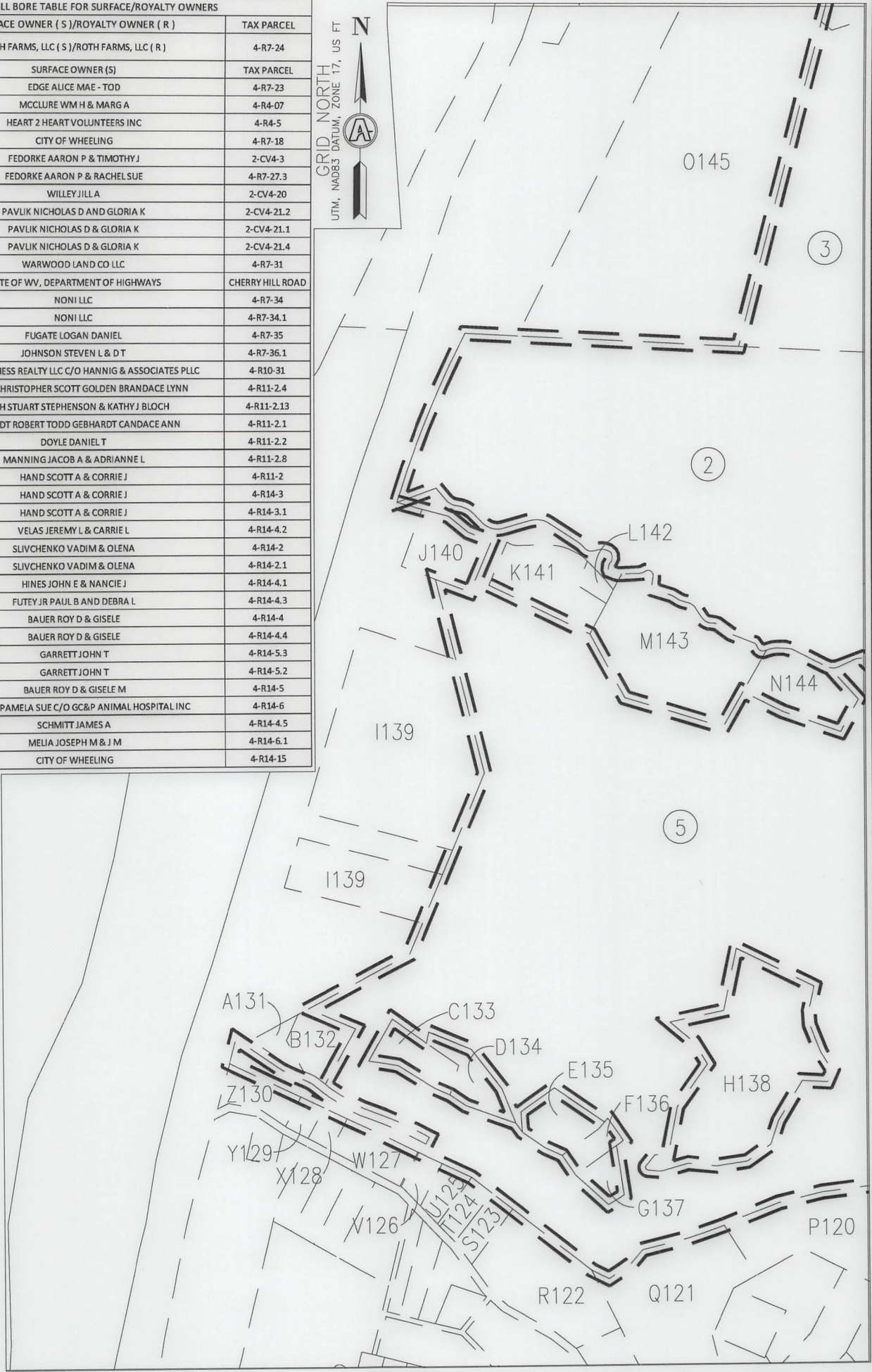
| | | | | | |
|------------|--|------------|--|----------------------|--|
| REVISIONS: | | COMPANY: | | | |
| | | | | DATE: 06-14-2023 | |
| | | OPERATOR'S | | API: | |
| | | ROTH OHI | | 47-069-00349 | |
| | | WELL #: | | DRAWN BY: TMF | |
| | | 6H | | SCALE: 1"=500' | |
| | | DISTRICT: | | STATE: | |
| | | RICHLAND | | WV | |
| | | COUNTY: | | WELL LOCATION PLAT 8 | |
| | | OHIO | | | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--------------------------------------------|-------------------------------------------------------|------------------|
| TRACT | SURFACE OWNER (S)/ROYALTY OWNER (R) | TAX PARCEL |
| 1 | ROTH FARMS, LLC (S)/ROTH FARMS, LLC (R) | 4-R7-24 |
| 2 | EDGE ALICE MAE - TOD | 4-R7-23 |
| 3 | MCCLURE WM H & MARG A | 4-R4-07 |
| 4 | HEART 2 HEART VOLUNTEERS INC | 4-R4-5 |
| 5 | CITY OF WHEELING | 4-R7-18 |
| 6 | FEDORKE AARON P & TIMOTHY J | 2-CV4-3 |
| 7 | FEDORKE AARON P & RACHEL SUE | 4-R7-27.3 |
| 8 | WILLEY JILLA | 2-CV4-20 |
| 9 | PAVLIK NICHOLAS D AND GLORIA K | 2-CV4-21.2 |
| 10 | PAVLIK NICHOLAS D & GLORIA K | 2-CV4-21.1 |
| 11 | PAVLIK NICHOLAS D & GLORIA K | 2-CV4-21.4 |
| 12 | WARWOOD LAND CO LLC | 4-R7-31 |
| 13 | STATE OF WV, DEPARTMENT OF HIGHWAYS | CHERRY HILL ROAD |
| 14 | NONI LLC | 4-R7-34 |
| 15 | NONI LLC | 4-R7-34.1 |
| 16 | FUGATE LOGAN DANIEL | 4-R7-35 |
| 17 | JOHNSON STEVEN L & D T | 4-R7-36.1 |
| 18 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R10-31 |
| 19 | GOLDEN CHRISTOPHER SCOTT GOLDEN BRANDACE LYNN | 4-R11-2.4 |
| 20 | BLOCH STUART STEPHENSON & KATHY J BLOCH | 4-R11-2.13 |
| 21 | GEBHARDT ROBERT TODD GEHBARDT CANDACE ANN | 4-R11-2.1 |
| 22 | DOYLE DANIEL T | 4-R11-2.2 |
| 23 | MANNING JACOB A & ADRIANNE L | 4-R11-2.8 |
| 24 | HAND SCOTT A & CORRIE J | 4-R11-2 |
| 25 | HAND SCOTT A & CORRIE J | 4-R14-3 |
| 26 | HAND SCOTT A & CORRIE J | 4-R14-3.1 |
| 27 | VELAS JEREMY L & CARRIE L | 4-R14-4.2 |
| 28 | SLIVCHENKO VADIM & OLENA | 4-R14-2 |
| 29 | SLIVCHENKO VADIM & OLENA | 4-R14-2.1 |
| 30 | HINES JOHN E & NANCIE J | 4-R14-4.1 |
| 31 | FUTEY JR PAUL B AND DEBRA L | 4-R14-4.3 |
| 32 | BAUER ROY D & GISELE | 4-R14-4 |
| 33 | BAUER ROY D & GISELE | 4-R14-4.4 |
| 34 | GARRETT JOHN T | 4-R14-5.3 |
| 35 | GARRETT JOHN T | 4-R14-5.2 |
| 36 | BAUER ROY D & GISELE M | 4-R14-5 |
| 37 | HARROLD PAMELA SUE C/O GC&P ANIMAL HOSPITAL INC | 4-R14-6 |
| 38 | SCHMITT JAMES A | 4-R14-4.5 |
| 39 | MELIA JOSEPH M & J M | 4-R14-6.1 |
| 40 | CITY OF WHEELING | 4-R14-15 |

GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT



INSET "G"

09/22/2023

| | | | | | |
|------------|------------|--------------------|----------|------------|--|
| REVISIONS: | COMPANY: | | | | |
| | OPERATOR'S | | ROTH OHI | | |
| | WELL #: | | 6H | | |
| | DISTRICT: | | RICHLAND | | |
| | | COUNTY: | | OHIO | |
| | | STATE: | | WV | |
| | | DATE: | | 06-14-2023 | |
| | | DRAWN BY: | | TMF | |
| | | SCALE: | | 1"=500' | |
| | | DRAWING NO: | | ACE-2598 | |
| | | WELL LOCATION PLAT | | 9 | |



SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--------------------------------------------|-------------------------------------------------------|------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| A | PLUMBY SARA, JULIE KLEIN & JUDITH PATTI | 4-R5-22 |
| B | ESTEP JOHN L | 4-R5-22.4 |
| C | BUCK THOMAS E & TERRI D | 4-R5-23 |
| D | BEEVER MICHAEL E & P A | 4-R5-23.3 |
| E | HASELEU ELAINE | 4-R5-23.1 |
| F | HASELEU ELAINE M | 4-R5-25 |
| G | RICHARDSON DANIEL | 4-R5-26.2 |
| H | RICHARDSON BRIAN D AND FLANEGAN CASEY K | 4-R5-26.1 |
| I | BOYD ROBERT JEFFREY & CHERYL L | 4-R5-24 |
| J | OLEJASZ JOSEPH R JR | 4-R5-34 |
| K | OLEJASZ JOSEPH R JR | 4-R5-35 |
| L | KUCERA CARL J & SHARON L | 4-R5-35.2 |
| M | PAVELICH-SWIGER SHERRI J PAVELICH JEFFREY M | 4-R5-35.1 |
| N | WEIGAND PAUL & REBECCA FAMILY TRUST | 4-R5-40.1 |
| O | SHELL RICHARD A & N | 4-R8-1.1 |
| P | HABERFIELD WAYNE K & D A | 4-R8-1 |
| Q | MCCLURE WM H & MARGARET A | 4-R7-26.1 |
| R | LEFKAY SCOTT A & TRACY L | 4-R8-2.3 |
| S | FELDNER CHARLENE M - TOD | 4-R8-2.1 |
| T | OLEJASZ JR JOSEPH R OLEJASZ JR SR & G (RT-OC) | 4-R8-2.2 |
| U | CALDWELL SUZANNE & SHANE | 4-R7-24.2 |
| V | CALDWELL SHANE J & CALDWELL SUZANNE M | 4-R7-24.1 |
| W | MCKEE JAMES F JR & EILEEN B | 4-R8-4.14 |
| X | MCKEE JAMES & EILEEN | 4-R8-4.15 |
| Y | TUNNEL RIDGE LLC | 4-R8-77 |
| Z | TUNNEL RIDGE LLC | 4-R8-4.18 |
| A1 | KUCERA LISA A | 4-R8-4.8 |
| B2 | HELDEFFER GEORGE W | 4-R8-4.7 |
| C3 | CALDWELL SHANE AND SUZANNE | 4-R8-78 |
| D4 | CLARK JOHN M & B C | 4-R8-4.1 |
| E5 | CLEGG R E & J L | 2-CV1-5 |
| F6 | TOMAC ROBERT C JR | 2-CV1-4 |
| G7 | DANEHART CHARLES D & JO ANN | 2-CV1-3 |
| H8 | ROGERSON BENTON L SR & K S | 2-CV1-2 |
| I9 | SHEARER PHILLIP G & CINDY M | 2-CV1-1 |
| J10 | QUINN JOHN THOMAS | 2-CV4-7 |
| K11 | QUINN THOMAS F & SUE ANN TAYLOR | 2-CV4-7.4 |
| L12 | BENNER SUZANNE J & JAMES T BENNER | 2-CV4-7.5 |
| M13 | FEDORKE AARON P & FEDORKE RACHEL SUE | 2-CV4-4.1 |
| N14 | MAMULA VALERIE & GEORGE - TOD | 2-CV4-4 |
| O15 | TURNER TERRY L | 2-CV4-18 |
| P16 | BONNER ANTHONY S & WRIGHT AMBER R | 2-CV4-18.2 |
| Q17 | BONNER ANTHONY S & AMBER R WRIGHT | 2-CV4-18.1 |
| R18 | SCAMMELL DAVID & SUSAN | 2-CV4-19 |
| S19 | SZALAY PATRICIA L | 2-CV4-17.2 |
| T20 | HESTIA LLC | 4-R8-65.1 |
| U21 | GLENN VIEW LIMITED PARTNERSHIP | 4-R8-65.4 |
| V22 | GLENN VIEW II LIMITED PARTNERSHIP | 4-R8-68 |
| W23 | MEREDITH DONALD R II AND JULIE | 4-R8-69.1 |
| X24 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R8-70 |
| Y25 | MEREDITH DONALD R II AND J K | 4-R8-69.3 |
| Z26 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R8-52 |
| A27 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R11-11 |
| B28 | PENN HOLDING LIMITED LIABILITY COMPANY | 4-R11-6.3 |
| C29 | KURTZ PENN L & JEAN S | 4-R11-6.14 |
| D30 | TIU JEREMY J & MELISSA J | 4-R11-6.18 |
| E31 | GEBHARDT ROBERT T & CANDACE A | 4-R11-6.16 |
| F32 | BLOCH STUART STEPHENSON & KATHY J BLOCH | 4-R11-6.17 |
| G33 | SHATS DANIEL & LISA | 4-R11P-5.4 |
| H34 | BLISS CHARLIE A SR BLISS MARY ELLEN | 4-R14-90.2 |
| I35 | JONES WILBUR S JR JEFFERSON JOYCE P | 4-R14-90.3 |
| J36 | JONES WILBUR S JR AND JEFFERSON JOYCE P | 4-R14-90.1 |
| K37 | JONES WILBUR S JR JEFFERSON JOYCE P | 4-R14-90.1 |
| L38 | SISTERS OF ST JOSEPH OF WHEELING INC | 4-R11-21 |
| M39 | SISTERS OF ST JOSEPH OF WHG | 4-R11-20 |
| N40 | PARKS SYSTEM TRUST FUND OF WHEELING | 4-R11-21.3 |
| O41 | WHEELING PARK COMMISSION | 4-R14-91 |
| P42 | WHEELING PARK COMMISSION | 4-R14-20.4 |
| Q43 | WHEELING PARK COMMISSION | 4-R14-15.2 |
| R44 | CITY OF WHEELING | 4-R14-15 |
| S45 | ELM HILL HOLDINGS LLC | 4-R14-14 |
| T46 | SCHULTZ JEFFREY S | 4-R14-13 |
| U47 | WHEELING PARK COMMISSION | 10-W17A-1 |
| V48 | PELUCETTE JOHN M & C L | 4-R14J-1 |
| W49 | POLACK EDWARD P | 4-R14-95 |
| X50 | JOSEPH ELIAS E | 4-R14A-53 |
| Y51 | JOSEPH ELIAS E | 4-R14A-53 |
| Z52 | GARRETT JOHN T | 4-R14-5.1 |

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--------------------------------------------|-------------------------------------------------|------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| A53 | GARRETT JOHN TRAVIS & JENNET COOLEY | 4-R14-1.1 |
| B54 | GARRETT JOHN T & JENNET COOLEY GARRETT | 4-R14-1.2 |
| C55 | GROUND'S ANGELA JO | 4-R14-1 |
| D56 | CHILDERS WILLIAM A & JENNIFER LYNN | 4-R14-4.7 |
| E57 | MULL ELLEN CLARICE ET AL | 4-R11-1 |
| F58 | DOYLE MATTHEW M & CHRISTINE M | 4-R11-2.5 |
| G59 | CUSACK JOHN L & TAMMIE L | 4-R11-2.9 |
| H60 | WELDER PAUL J & ALYSSA LEE | 4-R11-2.10 |
| I61 | LOWE JEREMY J & AMANDA L | 4-R11-2.6 |
| J62 | LOWE JEREMY J & AMANDA L | 4-R11-2.11 |
| K63 | DOYLE DANIEL T & LUCINDA E | 4-R11-2.12 |
| L64 | DEFELICE LESLIE PAUL | 4-R11-2.7 |
| M65 | NORTH FORK LANDFILL INC C/O SUSAN SARKIS | 4-R10-41 |
| N66 | MURRAY SANDRA | 4-R10-41 |
| O67 | MCCARDLE STANLEY JR & MARYANN | 4-R11-3 |
| P68 | WITSBERGER MARGUERITE L | 4-R11-4.1 |
| Q69 | WITSBERGER AMY L | 4-R11-4 |
| R70 | MARY ANN HESS REALTY LLC | 4-R11-5 |
| S71 | NORTH FORK LANDFILL INC C/O SARKIS SUSAN | 4-R10-41.1 |
| T72 | NORTH FORK LANDFILL INC C/O SUSAN SARKIS | 4-R10-39.1 |
| U73 | IAFRATE DAVID A | 4-R10-39 |
| V74 | MCCARDLE STANLEY M JR & M | 4-R10-36 |
| W75 | MCCARDLE STANLEY M JR & M | 4-R10-35 |
| X76 | INTERSTATE DEV CORP C/O JACK FELTON CPA | 4-R10-46 |
| Y77 | WEST SHARON L | 4-R10-28 |
| Z78 | BROOKS WILLIAM S C/O WESBANCO TRUST | 4-R10-27.1 |
| A79 | ERNEST RICHARD H JR & A L | 4-R10-27 |
| B80 | WILSON CINDY L P & D L | 4-R10-26 |
| C81 | MCCRACKEN ROBERT W | 4-R10-25 |
| D82 | BROST JR CLARENCE W | 4-R10-24 |
| E83 | BROST RICHARD | 4-R10-24.1 |
| F84 | BROST JR CLARENCE W | 4-R10-22.2 |
| G85 | NEWLAND DARRELL L | 4-R10-22.3 |
| H86 | KYLE CHAD J & E A | 4-R10-22 |
| I87 | BURTRAND GARY E & T L | 4-R10-22.1 |
| J88 | BURTRAND GARY E & T L | 4-R10-23.1 |
| K89 | BREIDING JOSHUA D & SARAH N | 4-R10-20 |
| L90 | SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE | 4-R10-19 |
| M91 | NORTH FORK LANDFILL INC | 4-R10-43 |
| N92 | MCGLAUGHLIN DENNIS & S | 4-R7-30 |
| O93 | CLEARVIEW VOL FIRE DEPT INC | 2-CV6-34.1 |
| P94 | STEWART CAROL | 2-CV6-28 |
| Q95 | BOPP VICTOR V III & DIANN | 2-CV6-28.3 |
| R96 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27.1 |
| S97 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27 |
| T98 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27.2 |
| U99 | LAING MARGARET T | 2-CV6-26 |
| V100 | KIRKSEY MARK R WEATHERSON NANCY (RES'V L/E) | 2-CV6-25 |
| W101 | CONTRAGUERRO MICHAEL J & P A | 2-CV6-24 |
| X102 | STEWART GREGORY L & JODI A | 2-CV6-23 |
| Y103 | GAUK JACOB A | 2-CV6-22 |
| Z104 | DAGRAVA TIMOTHY & MEGAN | 2-CV6-21 |
| A105 | HLAD DOUGLAS M & LISA ANN | 2-CV6-20 |
| B106 | STEWART LOGAN G | 2-CV6-19 |
| C107 | SZALAY FRANCIS E & PL | 2-CV3-13.1 |
| D108 | MYERS WILBERT E III & J S | 2-CV3-13 |
| E109 | KLEIN JACK W JR & B J | 2-CV4-22.1 |
| F110 | MURRAY BRYAN M AND JOAN C | 2-CV4-22 |
| G111 | STAHNKE DAVID A & TRICIA J | 2-CV4-1 |
| H112 | CUPP DAVID J | 2-CV4-2 |
| I113 | STAHNKE DAVID A AND LITTEN T J | 2-CV4-1.1 |
| J114 | DELANEY EXIE II | 4-R7-27.1 |
| K115 | FEDORKE TIMOTHY JOSEPH | 4-R7-37 |
| L116 | BIEGA FRANK & CONNIE | 4-R7-27.2 |
| M117 | STOEHR RONALD J & MARIE PAPPA | 2-CV3-4.7 |
| N118 | ROWND DENISE A ROWND DANIEL THOMPSON III | 4-R7-14.1 |
| O119 | ROWND DENISE & DANIEL T III | 4-R7-14 |
| P120 | ROWND DENISE & THOMPSON DANIEL, III | 4-R7-12 |
| Q121 | BIEGA CONNIE SUE & FRANK PAUL | 4-R7-12.10 |
| R122 | CITY OF WHEELING | 4-R7L-105 |
| S123 | CITY OF WHEELING | 4-R7L-100 |
| T124 | MACFARLAND DARIN P & K L | 4-R7L-99 |
| U125 | CITY OF WHEELING | 4-R7G-25 |
| V126 | MACFARLAND DARIN P & KIMBERLY | 4-R7G-24 |
| W127 | COMER JAMES A & J A | 4-R7G-23 |
| X128 | COMER JE AN A | 4-R7G-20 |
| Y129 | ROBINSON RICHARD J | 4-R7G-19 |
| Z130 | VELEGOL DAVID & CAROLYN | 4-R7G-18 |

09/22/2023



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| REVISIONS: | COMPANY: | | | | |
| | OPERATOR'S | | ROTH OHI | | |
| | WELL #: | | 6H | | |
| | DISTRICT: | | RICHLAND | | |
| | | COUNTY: | | OHIO | |
| | | API: | | 47-069-00349 | |
| | | DATE: | | 06-14-2023 | |
| | | DRAWN BY: | | TMF | |
| | | SCALE: | | N/A | |
| | | DRAWING NO: | | ACE-2598 | |
| | | WELL LOCATION PLAT | | 10 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--------------------------------------------|----------------------------------------------|------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| A131 | GUZZI COREY A & BRITTANY N | 4-R7-10 |
| B132 | GUZZI COREY A & BRITTANY N | 4-R7-11 |
| C133 | FLUHARTY MICHAEL L | 4-R7-6 |
| D134 | WOLFE JAMES R ESTATE | 4-R7-7 |
| E135 | FLUHARTY MICHAEL L & BRENDA K | 4-R7-8 |
| F136 | FLUHARTY MICHAEL L & BRENDA K | 4-R7-9.1 |
| G137 | FLUHARTY MICHAEL & BRENDA | 4-R7-9.1 |
| H138 | OAKLAND MEMORIAL CEMETERY | 4-R7-18.1 |
| I139 | ZOECKLER C W R R & C L | 4-R7L-56 |
| J140 | JONES SHANNON M WILDS | 4-R7-16.1 |
| K141 | DEAN LOMAN L & R Z | 4-R7-21 |
| L142 | LOEW J W JR & ELSIE | 4-R7-22 |
| M143 | HARTFILE GARY- TOD | 4-R7-16 |
| N144 | HARTFILE GARY L- TOD | 4-R7-20 |
| O145 | DONOHEW WILLIAM SCOTT & LAURA | 4-R4-2.4 |
| P146 | HOSFELT WILLIAM J & PATRICIA HOSFELT ESTATES | 10-W12D-2 |
| Q147 | RANSOM CHARLES M & CRYSTAL G | 10-W12D-1 |
| R148 | BURKE SUSAN R | 10-W14D-1 |
| S149 | HARTFILE GARY- TOD | 4-R7-15.1 |
| T150 | FLUHARTY MICHAEL AND BRENDA K | 4-R7-17 |
| U151 | STEWART MARK E; GEIGER LEEANN | 4-R7-28 |
| V152 | STEWART MARK E | 4-R7-15.2 |
| W153 | BIEGA FRANKIE P & C S | 4-R7-15 |
| X154 | JOHNSON MILDRED J | 4-R7-33 |
| Y155 | JOHNSON MILDRED J | 4-R7-32 |
| Z156 | JOHNSON MILDRED JOANN | 4-R7-36 |
| A157 | JOHNSON JOHN | 4-R10-29 |
| B158 | MCLAUGHLIN HENRY J III | 4-R10-29.1 |
| C159 | JOHNSON JOHN LLOYD | 4-R7-39 |

09/22/2023

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|------------|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| REVISIONS: | COMPANY: | |   | |
| | OPERATOR'S | | API: | DATE: 06-14-2023 |
| | WELL #: | | 47-069-00349 | DRAWN BY: TMF |
| | DISTRICT: | COUNTY: | STATE: | SCALE: N/A |
| | RICHLAND | OHIO | WV | DRAWING NO: ACE-2598 |
| | | | | WELL LOCATION PLAT 11 |