

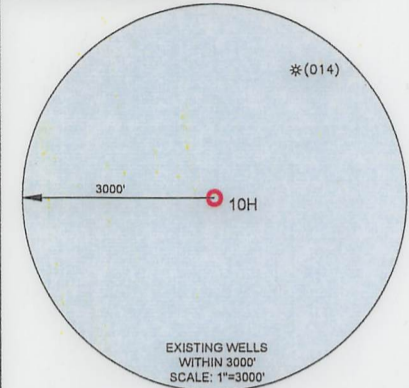


SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,444,580.504
EASTING: 526,660.831

LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,444,698.974
EASTING: 527,226.568

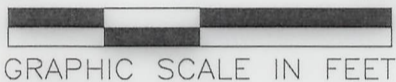
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,440,379.379
EASTING: 528,686.490



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 87°54'14" E	1726.06'	SHL TO MONUMENT	5/8" IRON REBAR
L2	N 70°45'14" E	1796.08'	SHL TO MONUMENT	1" IRON PIPE

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 78°10'22" E	1896.35'	2411.38'	SHL TO LPL
L4	S 20°36'10" E	983.24'	983.24'	LPL TO AZL1
L5	S 14°20'26" E	624.66'	625.91'	AZL1 TO AZL2
L6	S 08°04'47" E	528.06'	528.06'	AZL2 TO AZL3
L7	S 12°23'28" E	430.69'	431.10'	AZL3 TO AZL4
L8	S 16°42'18" E	4947.90'	4947.90'	AZL4 TO AZL5
L9	S 18°58'59" E	227.74'	227.80'	AZL5 TO AZL6
L10	S 21°15'47" E	7241.36'	7241.36'	AZL6 TO BHL

2500 0 2500



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

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

P.S. 983



COMPANY:



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

ROTH
OPERATOR'S WELL #: 10H
API WELL #: 47 STATE 69 COUNTY 00339 PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1004.0'

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONVILLE 7.5', OH

SURFACE OWNER: ROTH FARMS, LLC ACREAGE: ±118.93

OIL & GAS ROYALTY OWNER: ROTH FARMS, LLC ACREAGE: ±118.93

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,788 TVD 21,460 TMD

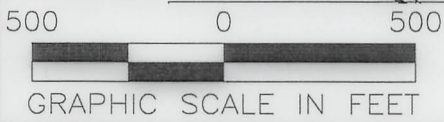
08/12/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDR: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE:
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	07-22-2022
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	FILE NO:
LPL ✕ LANDING POINT LOCATION	== LEASE BOUNDARY	DRAWN BY: TMF
⊙ EXISTING WATER WELL	— PROPOSED PATH	SCALE: 1" = 2500'
⊙ EXISTING SPRING		DRAWING NO: 2598
		WELL LOCATION PLAT



SURVEYOR/ENGINEER: 1-304-933-3463
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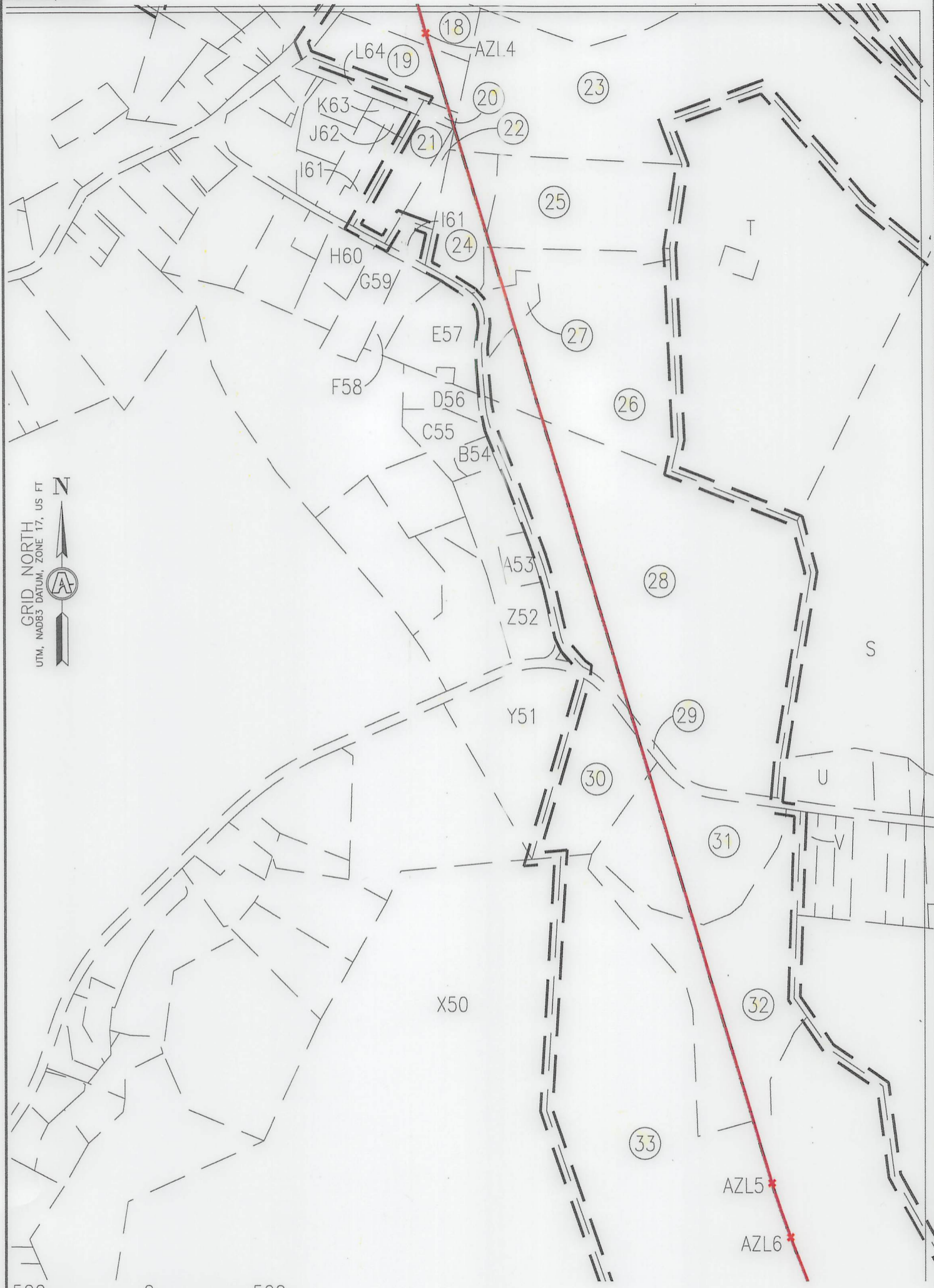


08/12/2022

REVISIONS:	COMPANY:			
	OPERATOR'S		ROTH	
	WELL #:		47-061-00331 10H	
	DISTRICT:	COUNTY:	STATE:	DATE:
	RICHLAND	OHIO	WV	07/22/2022
				DRAWN BY: TMF
				SCALE: 1"=500'
				DRAWING NO: ACE-2598
				WELL LOCATION PLAT



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



INSET "B"

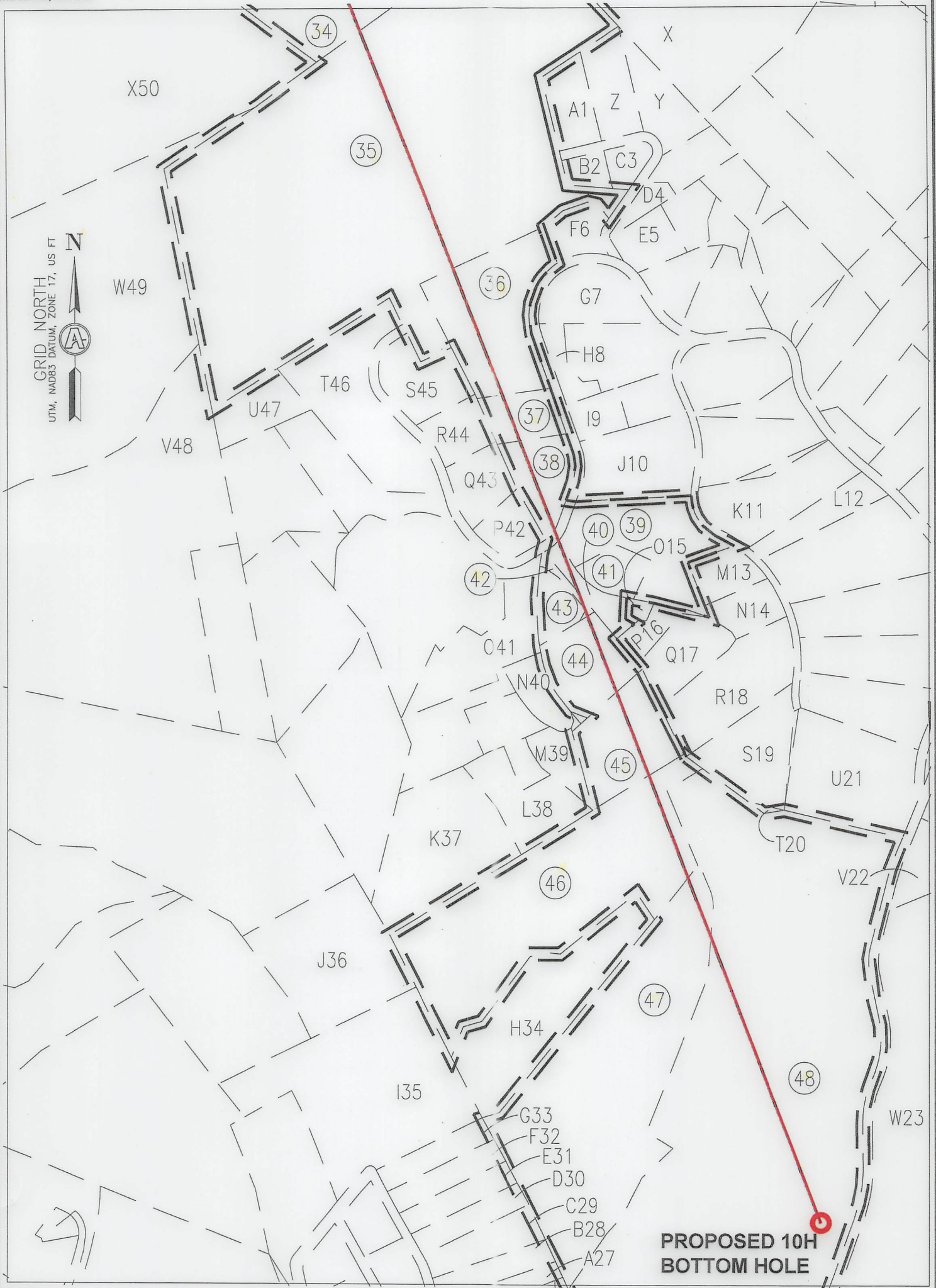
08/12/2022

REVISIONS:

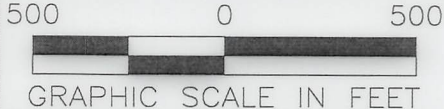
COMPANY:			
OPERATOR'S		ROTH	
WELL #:		47-061-00339	
DISTRICT:		RICHLAND	
COUNTY:		OHIO	
STATE:		WV	
DATE:		07/22/2022	
DRAWN BY:		TMF	
SCALE:		1"=500'	
DRAWING NO:		ACE-2598	
WELL LOCATION PLAT			



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



**PROPOSED 10H
 BOTTOM HOLE**



INSET "C"

08/12/2022

REVISIONS:	COMPANY:				
	OPERATOR'S				
	WELL #:		DATE:		
	DISTRICT:		DRAWN BY:		
RICHLAND		ROTH		07/22/2022	
COUNTY:		10H		SCALE: 1"=500'	
OHIO		STATE:		DRAWING NO: ACE-2598	
WV		WV		WELL LOCATION PLAT	



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
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	MCCLURE WM H & MARG A	4-R4-07
3	MCCLURE WM H & MARGARET A	4-R7-26.1
4	LEFKAY SCOTT A & TRACY L	4-R8-2.3
5	FELDNER CHARLENE M - TOD	4-R8-2.1
6	CALDWELL SHANE J & CALDWELL SUZANNE M	4-R7-24.1
7	CALDWELL SUZANNE & SHANE	4-R7-24.2
8	OLEJASZ JR JOSEPH R OLEJASZ JR SR & G (RT-OCC)	4-R8-2.2
9	MCKEE JAMES F JR & EILEEN B	4-R8-77
10	TUNNEL RIDGE LLC	4-R8-4.1B
11	BAKER STEVEN P (LE); STEVEN P BAKER ET AL	4-R8-4
12	BROWN CHAD & YEKATERINA	4-R8-4.17
13	BROWN CHAD & YEKATERINA	4-R8-4.19
14	KINNEER VERNON A JR & CARLA C	2-CV1-7
15	KINNEER VERNON A JR & CARLA C	2-CV1-8
16	BAKER VINCENT L	2-CV1-9
17	BAKER VINCENT L	2-CV1-6
18	TRACY JOHN A & MARY ANN E	2-CV4-21
19	TRACY JOHN A & M A	2-CV4-21.3
20	STANLEY GEORGE DAVID STANLEY SUSAN M	2-CV4-8.1
21	STANLEY GEORGE D & SUSAN M	2-CV4-14.1
22	STANLEY GEORGE DAVID AND SUSAN	2-CV4-14.2
23	CRAFT JOSEPH W III FOUNDATION	4-R8-63.2
24	TUNNEL RIDGE LLC	2-CV4-15.2
25	TUNNEL RIDGE LLC	4-R8-63
26	TUNNEL RIDGE LLC	2-CV4-15
27	KING CHARLES R JR & B M	2-CV4-15.1
28	TUNNEL RIDGE LLC	4-R8-67
29	STATE OF WEST VIRGINIA, DEPARTMENT OF TRANSPORTATION	CHERRY HILL ROAD
30	MEREDITH DONALD R II AND J K	4-R8-69.3
31	MEREDITH RICHARD T AND S F	4-R8-69
32	FROME STEPHEN D & REBECCA T-LE FROME S & R IRREVOCABLE TRUST	4-R8-69.2
33	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-52
34	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R11-11
35	PENN HOLDING LIMITED LIABILITY COMPANY	4-R11-6.3
36	NEIS THOMAS	4-R11-6.2
37	BROWN GEOFFREY C & ELIZABETH W	4-R11K-4.1
38	BROWN GEOFFREY C & ELIZABETH W	4-R11K-4
39	HOBBS ROLAND L	4-R11K-10
40	GEORGES NANCY A	4-R11K-10.3
41	MEAD ARMINA S	4-R11K-10.2
42	GEORGES NANCY A	4-R11K-38.1
43	WARD JEREMY D & KAUFMAN AMANDA J	4-R11K-38
44	GEORGES NANCY A	4-R11-6.6
45	YURKO JENNIFER G & KARLE E	4-R11P-4
46	BLISS CHARLIE A SR BLISS MARY ELLEN	4-R14-90.2
47	JONES WILBUR S JR AND JEFFERSON JOYCE P	4-R14-90.1
48	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90

08/12/2022

REVISIONS:	COMPANY:		
	OPERATOR'S	ROTH	DATE: 07/22/2022
	WELL #:	47-061-00331	10H
	DISTRICT:	RICHLAND	COUNTY: OHIO
			STATE: WV
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2598
			WELL LOCATION PLAT



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S)	TAX PARCEL
A	HEART 2 HEART VOLUNTEERS INC	4-R4-05
B	BOYD ROBERT JEFFREY & CHERYL L	4-R5-24
C	OLEJASZ JOSEPH R JR	4-R5-34
D	OLEJASZ JOSEPH R JR	4-R5-35
E	KUCERA CARL J & SHARON L	4-R5-35.2
F	PAVELICH-SWIGER SHERRI J PAVELICH JEFFREY M	4-R5-35.1
G	WEIGAND PAUL & REBECCA FAMILY TRUST	4-R5-40.1
H	SCHELL RICHARD A & N	4-R8-1.1
I	HABERFIELD WAYNE K & D A	4-R8-1
J	SCHUETZ EBBIE JOSEPH & JOY	4-R8-3
K	MCKEE JAMES F JR & EILEEN B	4-R8-4.14
L	MCKEE JAMES & EILEEN	4-R8-4.15
M	MCKEE JAMES & EILEEN	4-R8-4.16
N	TUNNEL RIDGE LLC	4-R8-3.2
O	TUNNEL RIDGE LLC	4-R5-4.7
P	CRAFT JOSEPH W III FOUNDATION	4-R8-3.1
Q	CRAFT JOSEPH W III FOUNDATION	4-R8-5
R	CRAFT JOSEPH W III FOUNDATION	4-R8-4.13
S	CRAFT JOSEPH W III FOUNDATION	4-R8-51
T	TUNNEL RIDGE LLC	4-R8-79
U	SMITH W EVERETT & JOLINDA STEINER	4-R8N-14
V	KOEGLER BRUCE M & A L	4-R8N-1
W	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-53
X	JONES ROBERT E MD INC	4-R11-16.3
Y	CUCHTA B WILLIAM III & REBECCA	4-R11-6.9
Z	CUNNINGHAM H SCOTT & SALLY A	4-R11-6.10
A1	BLOSSER SCOTT A AND LAURA R	4-R11-6.12
B2	REISINGER JAMES J & BARBARA J	4-R11-6.11
C3	WURTZBACHER JOHN J & ROXANNE B	4-R11-6.8
D4	SERENITY RD PERSONAL RESIDENCE TRUST-GEARY RICHARD C JR TTEE	4-R11-6.13
E5	GULLO GAYE R	4-R11K-24.3
F6	FAMILY TRUST OF JOHN R & AGNES T ARSLAIN (TRUSTEES)	4-R11K-34
G7	DEARTH JOHN EDW & P C	4-R11K-6
H8	BRUHN JAMES B AND KAREN A	4-R11K-7
I9	KHOUREY LOUIS H & CA	4-R11K-8
J10	HOBBS ROLAND L	4-R11K-9
K11	SPENCER THOMAS W & CATHERINE K	4-R11K-19
L12	SPENCER THOMAS W & CATHERINE K	4-R11K-19.1
M13	BUSH STEVEN & LAURA	4-R11K-14
N14	BELANCIC ERIC J	4-R11K-15
O15	MAXWELL WILLIAM E CARO VERA ANN	4-R11K-10.4
P16	MCCAMIC JEREMY C & LT	4-R11K-10.1
Q17	MCCAMIC JEREMY C & LT	4-R11K-11
R18	BORDAS LINDA M	4-R11K-12
S19	BORDAS LINDA M	4-R11P-1
T20	BORDAS LINDA M	4-R11P-1.1
U21	FITZSIMMONS ROBERT J	4-R11P-3
V22	CARPENTER DAVID & KATHERINE R	4-R11-21.9
W23	SISTERS OF ST JOSEPH OF WHEELING INC	4-R11-21
X24	CITY OF WHEELING	4-R14-15
Y25	HARROLD PAMELA SUE C/O GC&P ANIMAL HOSPITAL INC	4-R14-6
Z26	BAUER ROY D & GISELE M	4-R14-5

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S)	TAX PARCEL
A27	BAUER ROY D & GISELE	4-R14-4.4
B28	BAUER ROY D & GISELE	4-R14-4
C29	FUTEY JR PAUL B AND DEBRA L	4-R14-4.3
D30	SLIVCHENKO VADIM & OLENA	4-R14-2.1
E31	SLIVCHENKO VADIM & OLENA	4-R14-2
F32	HAND SCOTT A & CORRIE J	4-R14-3.1
G33	HAND SCOTT A & CORRIE J	4-R14-3
H34	JONES WILBURS JR JEFFERSON JOYCE P	4-R14-90.3
I35	HAND SCOTT A & CORRIE J	4-R11-2
J36	MANNING JACOB A & ADRIANNE L	4-R11-2.8
K37	SHATS DANIEL & LISA	4-R11P-5.4
L38	SHATS DANIEL & LISA	4-R11P-5.5
M39	SIMMONS KIMBERLY A	4-R11P-5.2
N40	GEBHARDT YURKO JENNIFER TODD	4-R11P-5.8
O41	BLOCH S STEPHENSON	4-R11P-5.7
P42	WETZEL ROBERT & LAURA L	4-R11K-3
Q43	BISCHOF DEBORAH L & LEE	4-R11K-2
R44	TURAK JONATHAN E & R	4-R11K-1.1
S45	TURAK JONATHAN E & ROSELYN	4-R11K-1
T46	KURTZ PENN L & J S	4-R11-6.1
U47	KURTZ PENN L & JEAN S	4-R11-6.14
V48	GOLDEN CHRISTOPHER SCOTT BRANDACE LYNN	4-R11-2.13
W49	GOLDEN CHRISTOPHER SCOTT GOLDEN BRANDACE LYNN	4-R11-2.4
X50	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R10-31
Y51	MEREDITH DONALD R II AND JULIE	4-R8-69.1
Z52	DUYMICH JENNIFER L & DAVID	4-R8-66
A53	KARNELL WILLIAM H & JENNIFER	4-R8-66.1
B54	AUTEN GERALD R JR & GRACE A	4-R8-65
C55	JOHN JOSEPH J & KAREN M	4-R8-65.2
D56	RCK 2 GROUP LLC ATTN KAYLEEN FITZSIMMONS	4-R8-64
E57	KIMPEL TODD E & JOYCE E	2-CV4-16
F58	KNUTH MARK A & J M	2-CV4-16.1
G59	WELLS CAROLE C	2-CV4-17.1
H60	CZAHOROSKI MELISSA DANIELLE	2-CV4-17.3
I61	MCKENZIE SEAN Z & KRISTI L	2-CV4-14
J62	GUZZI COREY A & BRITTANY N	2-CV4-13.1
K63	TUNNEL RIDGE LLC	2-CV4-12.1
L64	TUNNEL RIDGE LLC	2-CV4-8
M65	QUINN JOHN THOMAS	2-CV4-7
N66	SHEARER PHILLIP G & CINDY M	2-CV1-1
O67	ROGERSON BENTON L SR & K S	2-CV1-2
P68	DANEHART CHARLES D & JO ANN	2-CV1-3
Q69	TOMAC ROBERT C JR	2-CV1-4
R70	CLEGG R E & J L	2-CV1-5
S71	CLEGG GARY T & M V	2-CV1-5.1
T72	CLEGG GARY T & MARY W	2-CV1-5.2
U73	BROWN HARCE M & JENNIFER J	4-R8-4.1
V74	FEDORKE M PATRICIA	4-R8-4.2
W75	FACEMIRE JAMES G	4-R8-4.3
X76	CLARK JOHN M & B C	4-R8-4.11
Y77	MACKAY JOHN E & DIANNA L	4-R8-4.4
Z78	SMILA FRANK W JR & KELLY L	4-R8-4.12
A79	GRASKI DONNA M; GRASKI MICHAEL & GRASKI TIFFANY L	4-R8-4.6
B80	HELDEFER GEORGE W	4-R8-4.7
C81	KUCERA LISA A	4-R8-4.8
D82	CALDWELL SHANE AND SUZANNE	4-R8-78
E83	FEDORKE AARON P & TIMOTHY J	2-CV4-3
F84	CITY OF WHEELING	4-R7-18
G85	EDGE ALICE MAE - TOD	4-R7-23
H86	DONOHEW WILLIAM SCOTT & LAURA	4-R4-2.4

08/12/2022

REVISIONS:	COMPANY:			
	OPERATOR'S		ROTH	
	WELL #:		47-061-00339 10H	
	DISTRICT:	COUNTY:	STATE:	DATE: 07/22/2022
	RICHLAND	OHIO	WV	DRAWN BY: TMF
				SCALE: N/A
				DRAWING NO: ACE-2598
				WELL LOCATION PLAT