

BOTTOM HOLE ← 8553' TOP HOLE ← 5938'

SCALE: 1" = 2400'

ICE EAST UNIT 12H

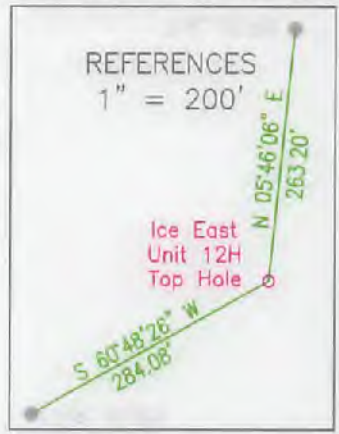
LATITUDE: 39°27'30" SCALE: 1" = 2000'
(USE FOR BOTH TOP AND BOTTOM HOLES)

NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
4. WELL ELEVATION ESTABLISHED BY RTK GPS NAVD 88.
5. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN MARCH 2019 AND FILES PROVIDED BY XTO ENERGY INC.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.

REFERENCES

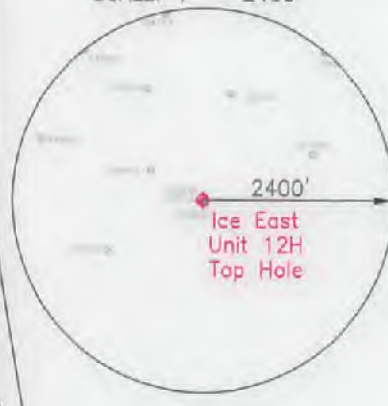
1" = 200'



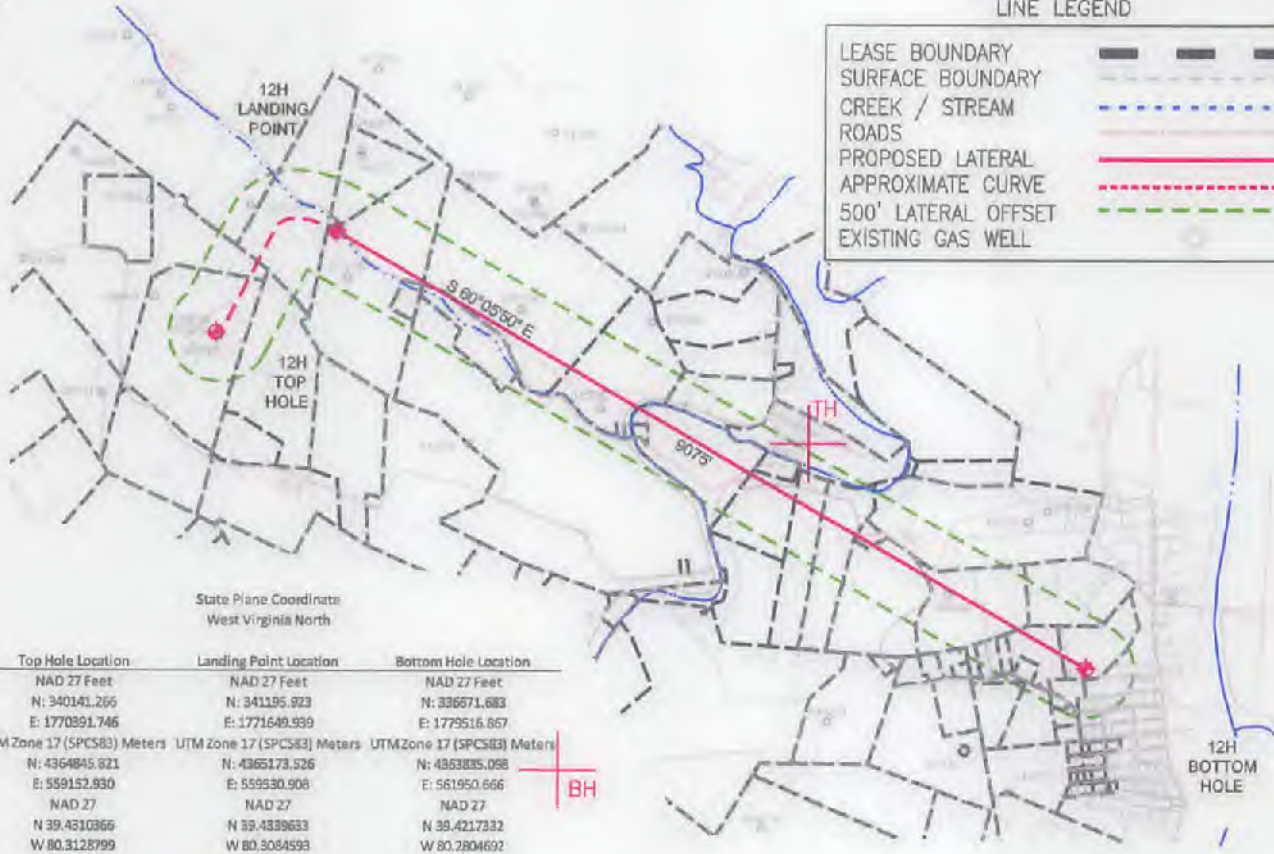
LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	- - - -
CREEK / STREAM	~~~~~
ROADS	— · — · —
PROPOSED LATERAL	— (Red) —
APPROXIMATE CURVE	- · - · -
500' LATERAL OFFSET	- · - · - (Green)
EXISTING GAS WELL	+

9912' ← TOP HOLE
13300' ← BOTTOM HOLE
SCALE: 1" = 2000' LONGITUDE: 80°17'30" (TOP HOLE)
SCALE: 1" = 2000' LONGITUDE: 80°15'00" (BOTTOM HOLE)



NORTH



State Plane Coordinate
West Virginia North

Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 340141.266	N: 341195.923	N: 336671.683
E: 1770391.746	E: 1771649.939	E: 1779516.957
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4364845.921	N: 4365173.526	N: 4363835.098
E: 559152.930	E: 559930.908	E: 561950.666
NAD 27	NAD 27	NAD 27
N 39.4310366	N 39.4339653	N 39.4217332
W 80.3128799	W 80.3084593	W 80.2804692



2402 PENNSYLVANIA 66 DELMONT, PA 15626
(724) 757 - 2417 www.jonesconsultant.com

SHEET 1 OF 2

FILE #: JC2018-80
DRAWING #: ICE EAST UNIT 12H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: RTK GPS

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 THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]
R.P.E.: _____ P.S.: 2165



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: 7/22/2019
OPERATOR'S WELL #: ICE EAST UNIT 12H
API WELL #: 47 033 05955 H6A
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

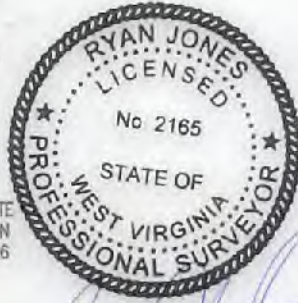
WATERSHED: LOWER WEST FORK RIVER (0502000206) ELEVATION: 1,364' (PROPOSED PAD FINISH GRADE)
COUNTY/DISTRICT: HARRISON / CLAY QUADRANGLE: SHINNSTON 7.5'
SURFACE OWNER: XTO ENERGY INC ACREAGE: 7.23±
OIL & GAS ROYALTY OWNER: JANICE M. BRENNAN TRUST A, ET AL ACREAGE: 387.1±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,619' (TVD), 17,414' (TMD)

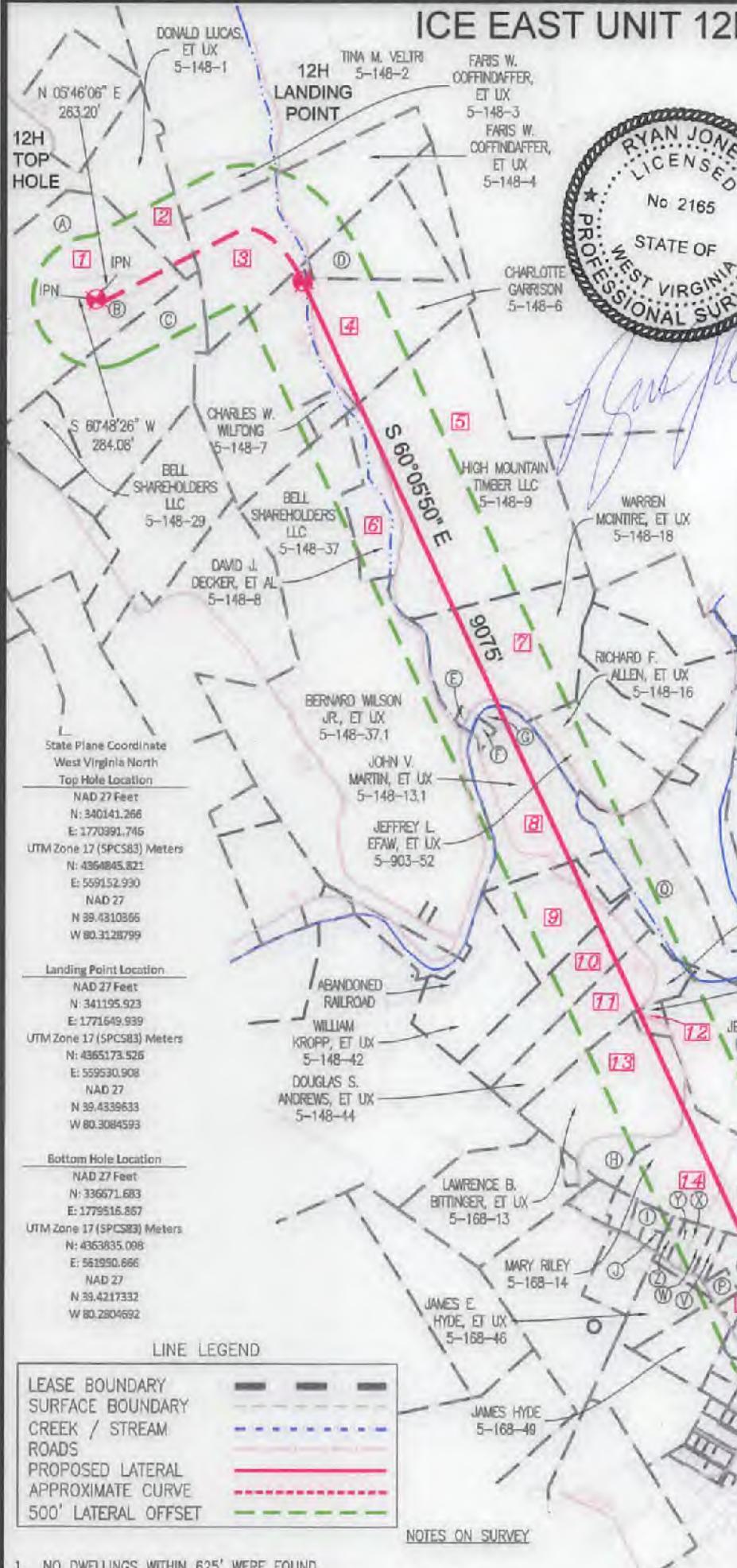
WELL OPERATOR: XTO ENERGY INC. DESIGNATED AGENT: GARY BEALL
Address: 190 THORN HILL ROAD Address: P.O. BOX 1008
City: WARRENDALE State: PA Zip Code: 15086 City: JANE LEW State: WV Zip Code: 26378

ICE EAST UNIT 12H



	SURFACE OWNER	TAX PARCEL
A	XTO ENERGY INC	5-148-27
B	XTO ENERGY INC	5-148-27.1
C	BELL SHAREHOLDERS LLC	5-148-32
D	RICHARD MCINTIRE	5-149-5
E	DONALD M. FORTNEY, ET AL	5-148-11
F	JOHN V. MARTIN	5-148-12
G	BELL SHAREHOLDERS LLC	5-148-13
H	LAWRENCE B. BITTINGER, ET UX	5-168-13.1
I	ALICE J. MATHENY	5-168-43.1
J	ALICE J. MATHENY	5-168-44
K	SANDRA RILEY	5-168-14.1
L	JAMES E. HYDE, ET UX	5-168-16
M	JAMES E. HYDE, ET UX	5-168-53.2
N	JAMES E. HYDE, ET UX	5-168-48.6
O	JAMES E. HYDE, ET UX	5-168-48.7
P	NELJIE HYDE (LIFE ESTATE)	5-168-48
Q	EDNA M. KROPP	5-903-21
R	JAMES HYDE	5-168-52
S	ST. JAMES EVANGELICAL CHURCH	5-168-52.1
T	ST. JAMES EVANGELICAL CHURCH	5-168-54.2
U	GARY D. ALLEN	5-168-54
V	JAMES E. HYDE JR.	5-168-48.4
W	IVAN C. VANORDER, ET UX	5-168-48.5
X	IVAN VANORDER, ET UX	5-168-48.3
Y	IVAN VANORDER, ET UX	5-168-48.1
Z	MARY RILEY	5-168-48.2

ICE EAST UNIT 12H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JANICE M. BRENNAN TRUST A, ET AL	39.50
2)	RICHARD ASHCRAFT, ET AL	61.08
3)	FARIS W. COFFINDAFFER, ET AL	37.375
4)	XTO ENERGY INC.	46.00
5)	JAMES D. ROGERS; TRUSTEE FOR THE ESTATE OF C.D. DENNISON	54.60
6)	PAMELA A. BROOKS, ET AL	7.00
7)	WILLIS G. TETRICK, III., ET AL	25.76
8)	LOUISE J. MICHAELS, ET AL	18.25
9)	LOUISE J. MICHAELS, BY HER ATTORNEY-IN-FACT, REBECCA M. SHULTZ	10.45
10)	LOUISE J. MICHAELS, BY HER ATTORNEY-IN-FACT, REBECCA M. SHULTZ	13.50
11)	ROBERT W. ORR, ET AL	12.875
12)	FRANK L. FERRARI, ET AL	1.06
13)	JARVISVILLE HOLDINGS, LLC, ET AL	21.26
14)	WACO OIL & GAS CO., INC., ET AL	19.9600
15)	JAMES E. HYDE, ET UX	7.32381726
16)	JESSE HYDE JR.	11.1269



State Plane Coordinate
West Virginia North
Top Hole Location
NAD 27 Feet
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UTM Zone 17 (SPCS83) Meters
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Landing Point Location
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NAD 27
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W 80.3084593

Bottom Hole Location
NAD 27 Feet
N: 336671.683
E: 1779516.867
UTM Zone 17 (SPCS83) Meters
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E: 561950.666
NAD 27
N 39.4217332
W 80.2804692

LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	- - - -
CREEK / STREAM	— — — —
ROADS	— — — —
PROPOSED LATERAL	— — — —
APPROXIMATE CURVE	- - - -
500' LATERAL OFFSET	— — — —

NOTES ON SURVEY

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JONES CONSULTANTS, LLC



XTO ENERGY
190 THORN HILL ROAD
WARRENDALE, PA 15086

0' 1200'



SURVEYING • MAPPING • LAND • GAS WELL • PIPELINE
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(724) 757 - 2417 www.jonesconsultant.com

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT




ICE EAST UNIT 12H

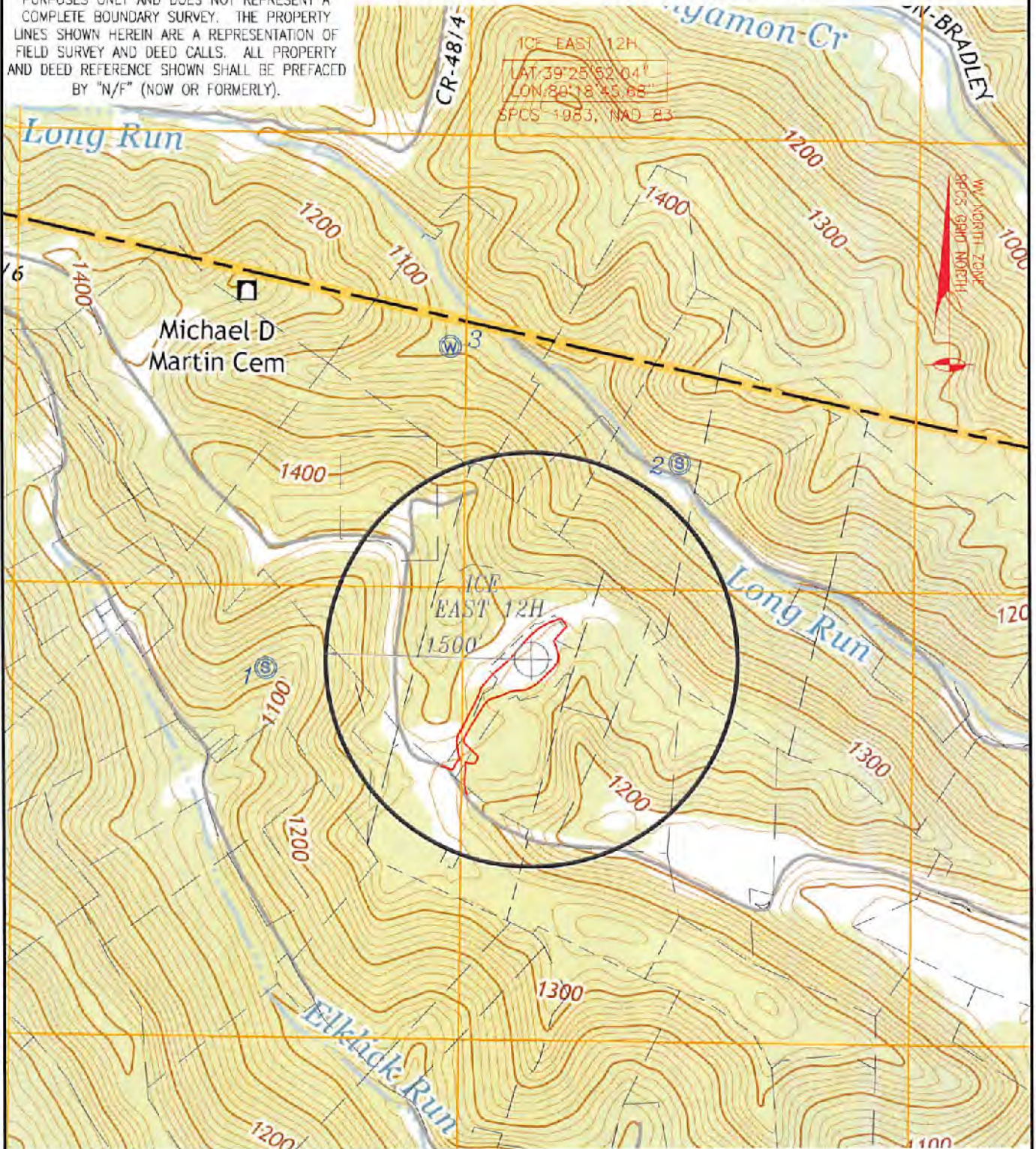
Drawn By: JRV	Date: 7/22/19	CLAY DISTRICT HARRISON COUNTY, WEST VIRGINIA
Scale: 1" = 1200'	Sheet: SHEET 2 OF 2	File No.: JC2018-80
APE # DD.2017.02327		

FORM W-9

NOTE: THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. THE PROPERTY LINES SHOWN HEREIN ARE A REPRESENTATION OF FIELD SURVEY AND DEED CALLS. ALL PROPERTY AND DEED REFERENCE SHOWN SHALL BE PREFACED BY "N/F" (NOW OR FORMERLY).

LEGEND

-  WATER WELL
-  SPRING/POND/STREAM
-  SURFACE BOUNDARY



POINT	NAME	ADDRESS	CITY	STATE	ZIP CODE	DISTANCE	BEARING	PARCEL I.D.
1	Michael & Cynthia Nosack	712 Bices Run Road	Shinnston	WV	26431	1936'	S 88°32'30" W	Tax Map 5-147, Parcel 87
2	Faris W. & Margaret J. Coffindafer	24 Glenview Drive	Bridgeport	WV	26330	1787'	N 37°21'06" E	Tax Map 5-148, Parcel 4
3	Tina M. Veltri	48 White Oak Drive	Bridgeport	WV	26330	2351'	N 14°21'44" W	Tax Map 11-58, Parcel 37

ICE EAST UNIT 12H WATER OVERALL

CLAY DISTRICT, HARRISON COUNTY, WEST VIRGINIA | 2/27/2019 | JC2018-80 | SHEET 1 OF 2



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DELMONT, PA 15626
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Shinnston Quad (2014)
Merion County, WV
Scale: 1" = 1000'



190 THORN HILL ROAD
WARRENDALE, PA 15086