

BOTTOM HOLE 6045' TOP HOLE 2913'

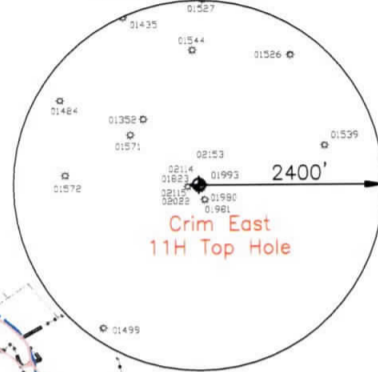
CRIM EAST UNIT 11H

SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

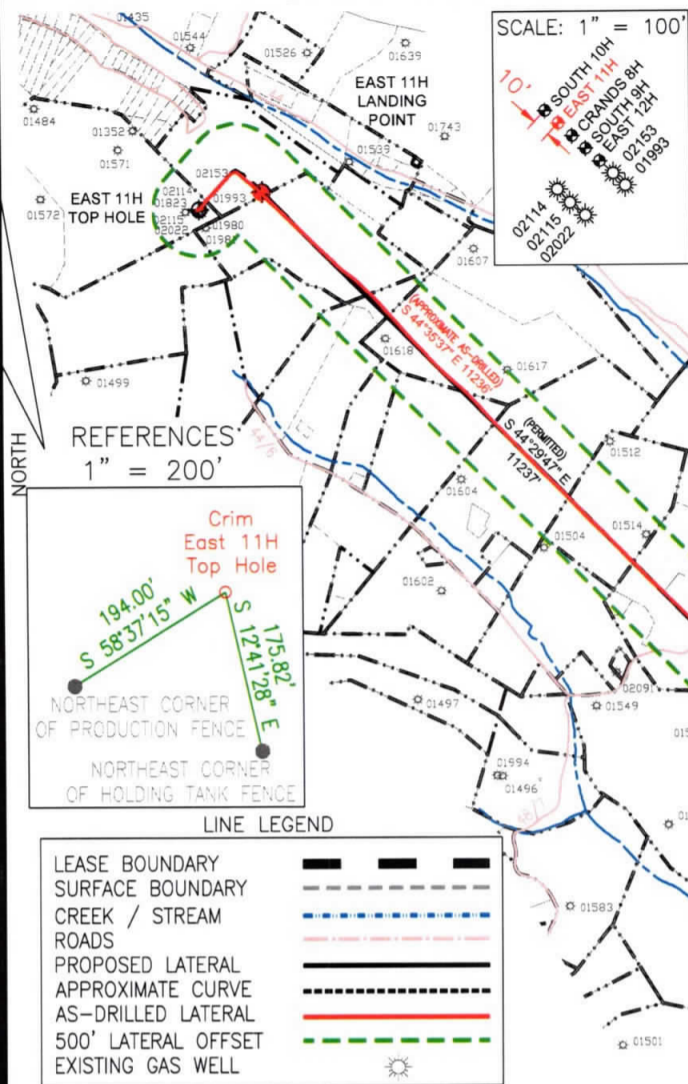
PERMITTED
 State Plane Coordinate
 West Virginia North

Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 354914.431	N: 355103.264	N: 347088.168
E: 1773546.292	E: 1774236.486	E: 1782111.847
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369362.694	N: 4369423.730	N: 4367021.809
E: 560039.033	E: 560248.355	E: 562688.417
NAD 27	NAD 27	NAD 27
N 39.4716733	N 39.4720087	N 39.4503927
W 80.3021795	W 80.2997406	W 80.2716006

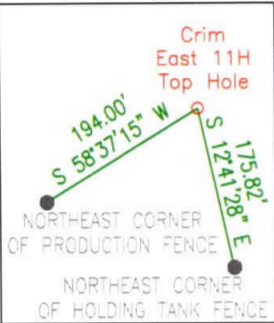
SCALE: 1" = 2400'



2862'
 10287'
 BOTTOM HOLE
 TOP HOLE
 LONGITUDE: 80°17'30" (TOP HOLE)
 LONGITUDE: 80°15'00" (BOTTOM HOLE)
 SCALE: 1" = 2000'
 SCALE: 1" = 2400'



REFERENCES
 1" = 200'



LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	----
CREEK / STREAM	~~~~~
ROADS	—+—+—+—
PROPOSED LATERAL	—+—+—+—
APPROXIMATE CURVE	-----
AS-DRILLED LATERAL	—+—+—+—
500' LATERAL OFFSET	-----
EXISTING GAS WELL	☀

AS-DRILLED

State Plane Coordinate
 West Virginia North

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NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 354914.431	N: 355091.050	N: 347089.818
E: 1773546.292	E: 1774225.570	E: 1782114.107
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369362.694	N: 4369419.954	N: 4367022.323
E: 560039.033	E: 560245.091	E: 562689.097
NAD 27	NAD 27	NAD 27
N 39.4716733	N 39.4721749	N 39.4503973
W 80.3021795	W 80.2997789	W 80.2715927

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
- WELL ELEVATION ESTABLISHED BY RTK GPS NAVD 88.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN APRIL 2020 AND FILES PROVIDED BY XTO ENERGY INC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.

(724) 757-2417



2402 PENNSYLVANIA 66 DELMONT, PA 15626

www.jonesconsultant.com

SHEET 1 OF 2

FILE #: JC2017-25
 DRAWING #: CRIM EAST 11H AS-DRILLED
 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: *Ryan Jones*
 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: 4/7/2020
 OPERATOR'S WELL #: CRIM EAST UNIT 11H
 API WELL #: 47 049 02490
 STATE COUNTY PERMIT

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

WATERSHED: LOWER WEST FORK RIVER (0502000206) ELEVATION: 1,221' (EXISTING FINISH GRADE)
 COUNTY/DISTRICT: MARION / LINCOLN QUADRANGLE: SHINNSTON 7.5'
 SURFACE OWNER: ROCHESTER & PITTSBURGH COAL COMPANY ACREAGE: 55±
 OIL & GAS ROYALTY OWNER: LOUIS A. FERRARI, ET UX ACREAGE: 810.7±

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

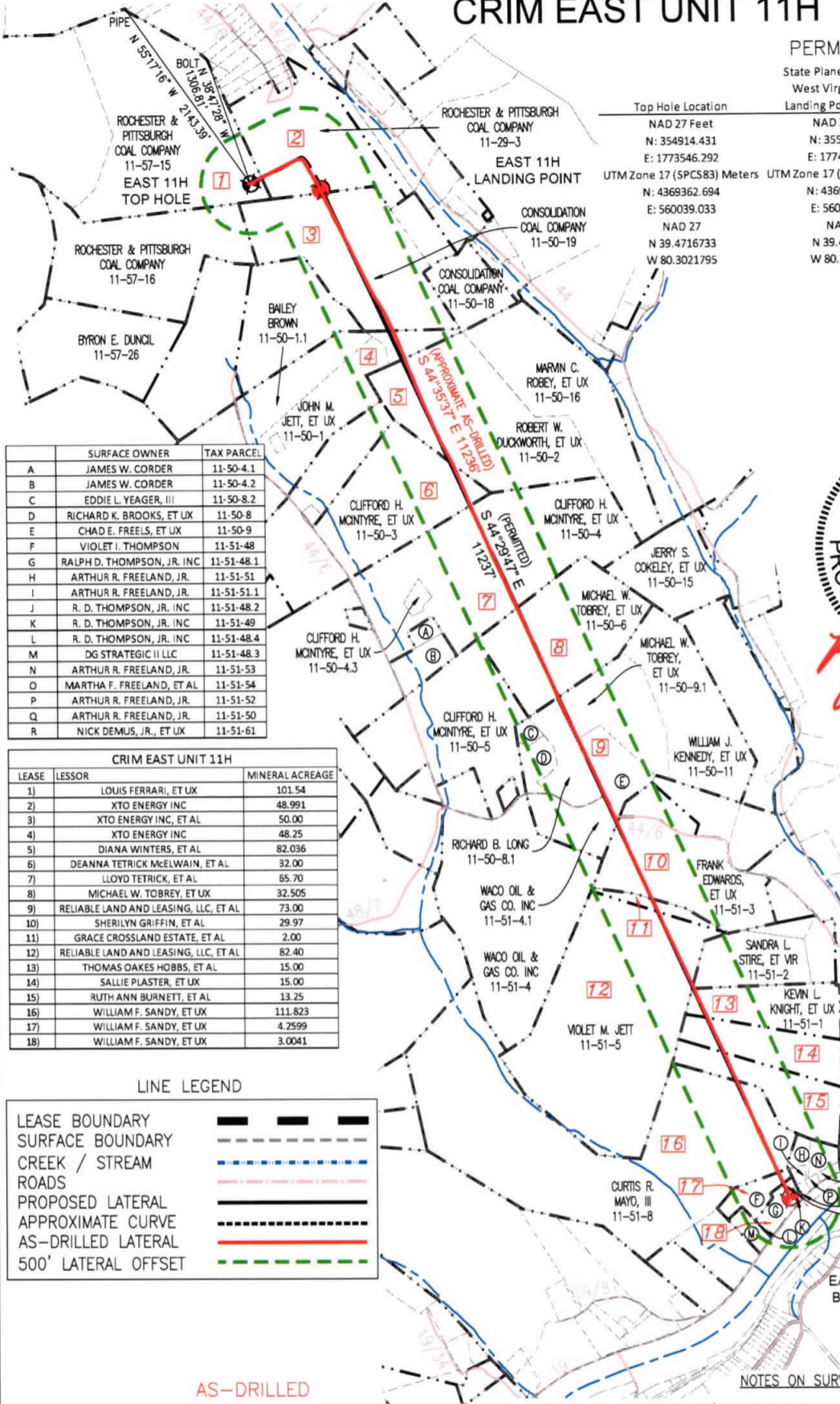
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,634' (TVD), 18,937' (TMD) (AS-DRILLED)
 WELL OPERATOR: XTO ENERGY INC. DESIGNATED AGENT: GARY BEALL
 Address: 190 THORN HILL ROAD Address: P.O. BOX 1008
 City: WARRENDALE State: PA Zip Code: 15086 City: JANE LEW State: WV Zip Code: 26378

CRIM EAST UNIT 11H

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	SURFACE OWNER	TAX PARCEL
A	JAMES W. CORDER	11-50-4.1
B	JAMES W. CORDER	11-50-4.2
C	EDDIE L. YEAGER, III	11-50-8.2
D	RICHARD K. BROOKS, ET UX	11-50-8
E	CHAD E. FREELS, ET UX	11-50-9
F	VIOLET I. THOMPSON	11-51-48
G	RALPH D. THOMPSON, JR. INC	11-51-48.1
H	ARTHUR R. FREELAND, JR.	11-51-51
I	ARTHUR R. FREELAND, JR.	11-51-51.1
J	R. D. THOMPSON, JR. INC	11-51-48.2
K	R. D. THOMPSON, JR. INC	11-51-49
L	R. D. THOMPSON, JR. INC	11-51-48.4
M	DG STRATEGIC II LLC	11-51-48.3
N	ARTHUR R. FREELAND, JR.	11-51-53
O	MARTHA F. FREELAND, ET AL	11-51-54
P	ARTHUR R. FREELAND, JR.	11-51-52
Q	ARTHUR R. FREELAND, JR.	11-51-50
R	NICK DEMUS, JR., ET UX	11-51-61

LEASE	LESSOR	MINERAL ACREAGE
1)	LOUIS FERRARI, ET UX	101.54
2)	XTO ENERGY INC	48.991
3)	XTO ENERGY INC, ET AL	50.00
4)	XTO ENERGY INC	48.25
5)	DIANA WINTERS, ET AL	82.036
6)	DEANNA TETRICK McELWAIN, ET AL	32.00
7)	LLOYD TETRICK, ET AL	65.70
8)	MICHAEL W. TOBREY, ET UX	32.505
9)	RELIABLE LAND AND LEASING, LLC, ET AL	73.00
10)	SHERILYN GRIFFIN, ET AL	29.97
11)	GRACE CROSSLAND ESTATE, ET AL	2.00
12)	RELIABLE LAND AND LEASING, LLC, ET AL	82.40
13)	THOMAS OAKES HOBBS, ET AL	15.00
14)	SALLIE PLASTER, ET UX	15.00
15)	RUTH ANN BURNETT, ET AL	13.25
16)	WILLIAM F. SANDY, ET UX	111.823
17)	WILLIAM F. SANDY, ET UX	4.2599
18)	WILLIAM F. SANDY, ET UX	3.0041

LINE LEGEND

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

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JONES CONSULTANTS, LLC

SURVEYING • MAPPING • LAND • GAS WELL • PIPELINE
2402 PENNSYLVANIA 66 DELMONT, PA 15626
(724) 757 - 2417 www.jonesconsultant.com

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT

CRIM EAST UNIT 11H

Drawn By: JRV	Date: 4/7/2020	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2017-25
AFE # DD.2011.06193.CAP.DRL.01		

