

# CRIM EAST UNIT 11H

BOTTOM HOLE | 6045' | TOP HOLE | 2913'

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

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: 1774236.485	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: 4367921.698
E: 560039.033	E: 560248.355	E: 562688.417
NAD 27	NAD 27	NAD 27
N 39.4716733	N 39.4722087	N 39.4503927
W 80.3021795	W 80.2997406	W 80.2716006

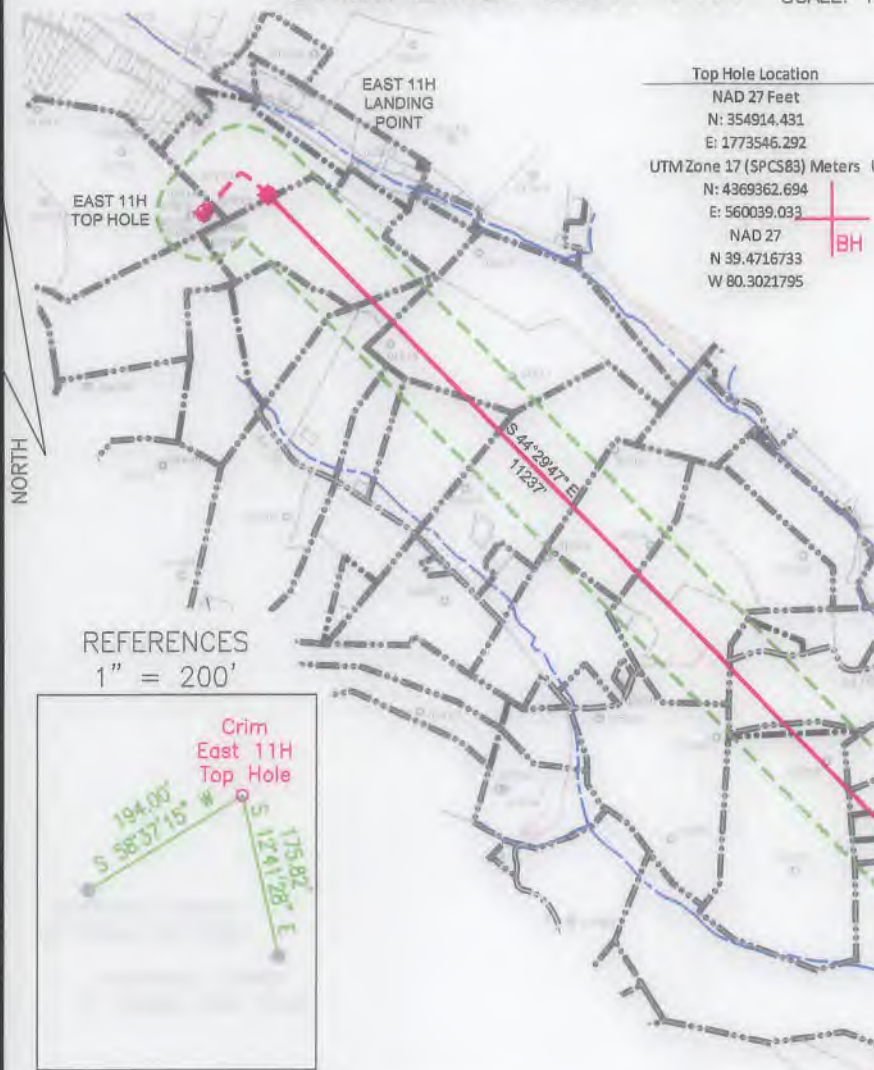
06/07/2019

SCALE: 1" = 2400'

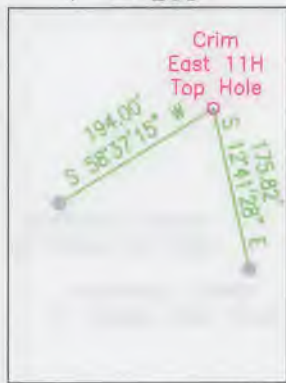


STATE PLANE COORDINATE  
WEST VIRGINIA NORTH  
SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)  
SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

2862' | 10287' | TOP HOLE



REFERENCES  
1" = 200'



LINE LEGEND

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

### 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 MARION COUNTY IN OCTOBER 2018 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.



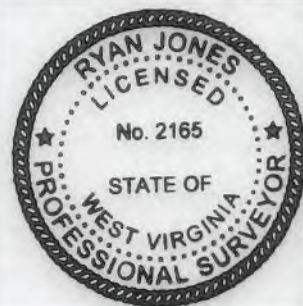
2402 PENNSYLVANIA 66 DELMONT, PA 15626  
(724) 757 - 2417 www.jonesconsultant.com

SHEET 1 OF 2

FILE #: JC2017-25  
DRAWING #: CRIM EAST UNIT 11H WELL  
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: 11/12/2018  
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: 7,563' (TVD), 18,974' (TMD)

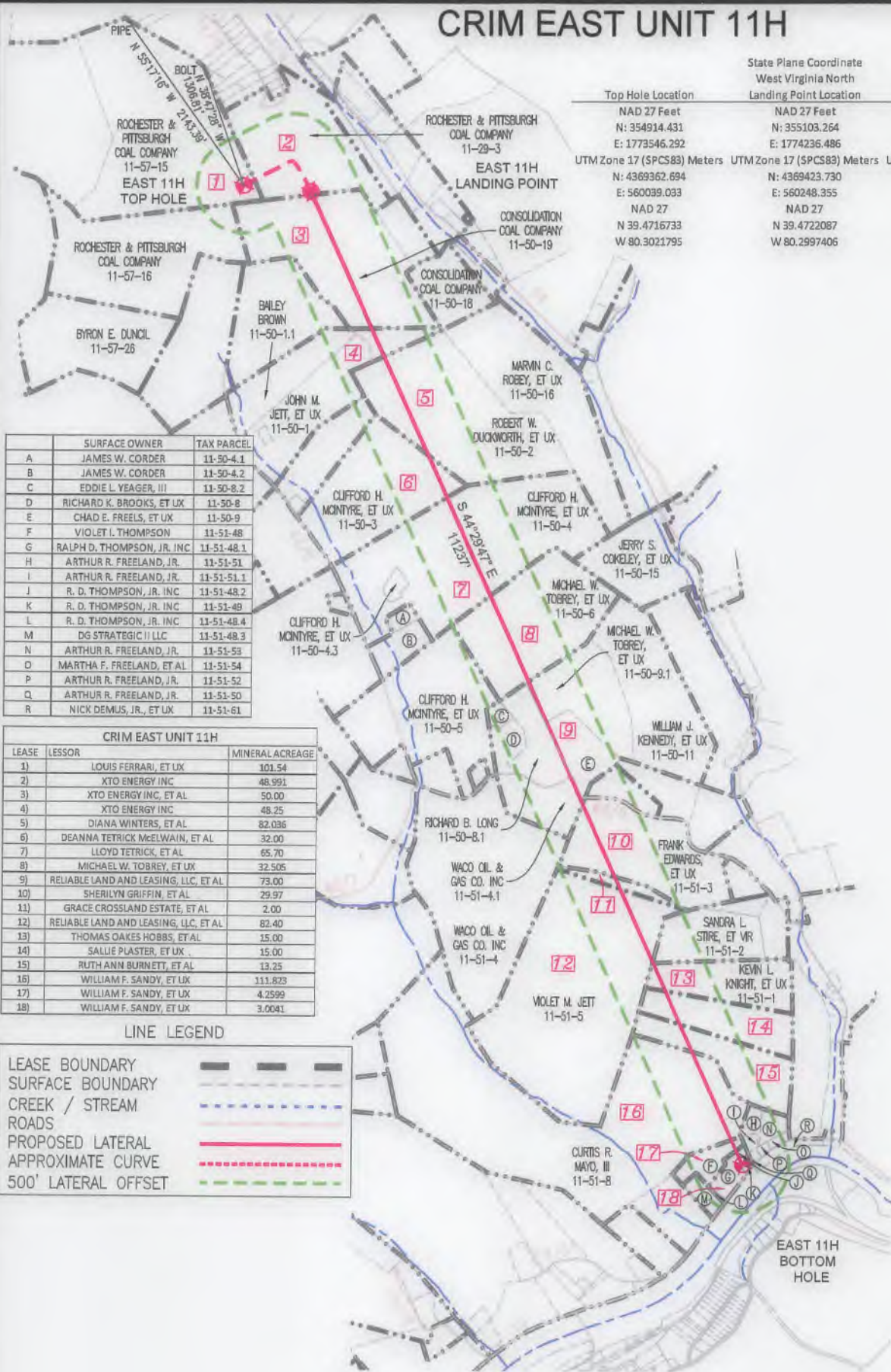
WELL OPERATOR: XTO ENERGY INC. DESIGNATED AGENT: GARY BEALL  
Address: 190 THORN HILL ROAD Address: P.O. BOX 1008  
City: WARRENDALE State: PA Zip Code: 15086 City: JANE LEW State: WV Zip Code: 26378

# CRIM EAST UNIT 11H

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West Virginia North

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06/07/2019



	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 L. 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

CRIM EAST UNIT 11H		
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 ANNI 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	- - - -
500' LATERAL OFFSET	---

NOTES ON SURVEY

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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: 11/12/18	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA	
Scale: 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2017-25	
AFE # 1106193			



**XTO ENERGY**  
190 THORN HILL ROAD  
WARRENDALE, PA 15086




0' 1500'

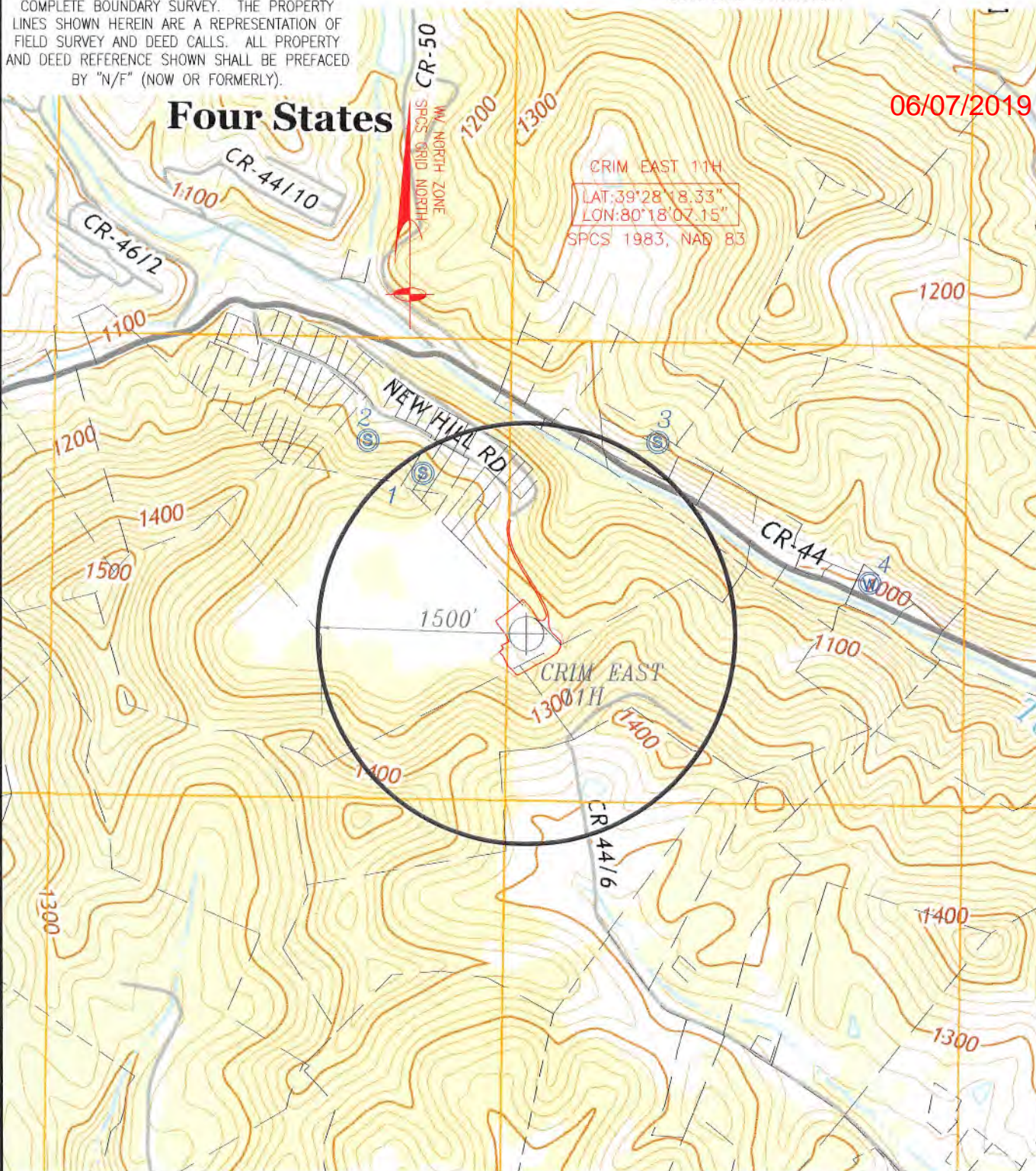


FORM W-9

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



06/07/2019

POINT	NAME	ADDRESS	CITY	STATE	ZIP CODE	DISTANCE	BEARING	PARCEL I.D.
1	Perry E. Heflin	P.O. Box 155	Four States	WV	26572	1366'	N 32°50'08" W	Tax Map 11-54, Parcel 29
2	Jimmie & Betty Garrett	P.O. Box 54	Four States	WV	26572	1788'	N 39°25'54" W	Tax Map 11-54, Parcel 30
3	Douglas Moyer	78 Dora Lane	Worthington	WV	26591	1662'	N 34°38'16" E	Tax Map 11-29, Parcel 9.2
4	Gary A. Eagle	868 Four States Road	Worthington	WV	26591	2490'	N 81°41'41" E	Tax Map 11-29, Parcel 10

RECEIVED  
Office of Oil and Gas

NOV 19 2018

WV Department of  
Environmental Protection

CRIM EAST UNIT 11H WATER OVERALL

LINCOLN DISTRICT, MARION COUNTY, WEST VIRGINIA | 9/6/2018 | JC2017-25 | SHEET 1 OF 2



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

Shinnston Quad (2014)  
Marion County, WV  
Scale: 1" = 1000'



190 THORN HILL ROAD  
WARRENDALE, PA 15086