

BOTTOM HOLE ← 6851' TOP HOLE → 2899'

CRIM SOUTH UNIT 9H

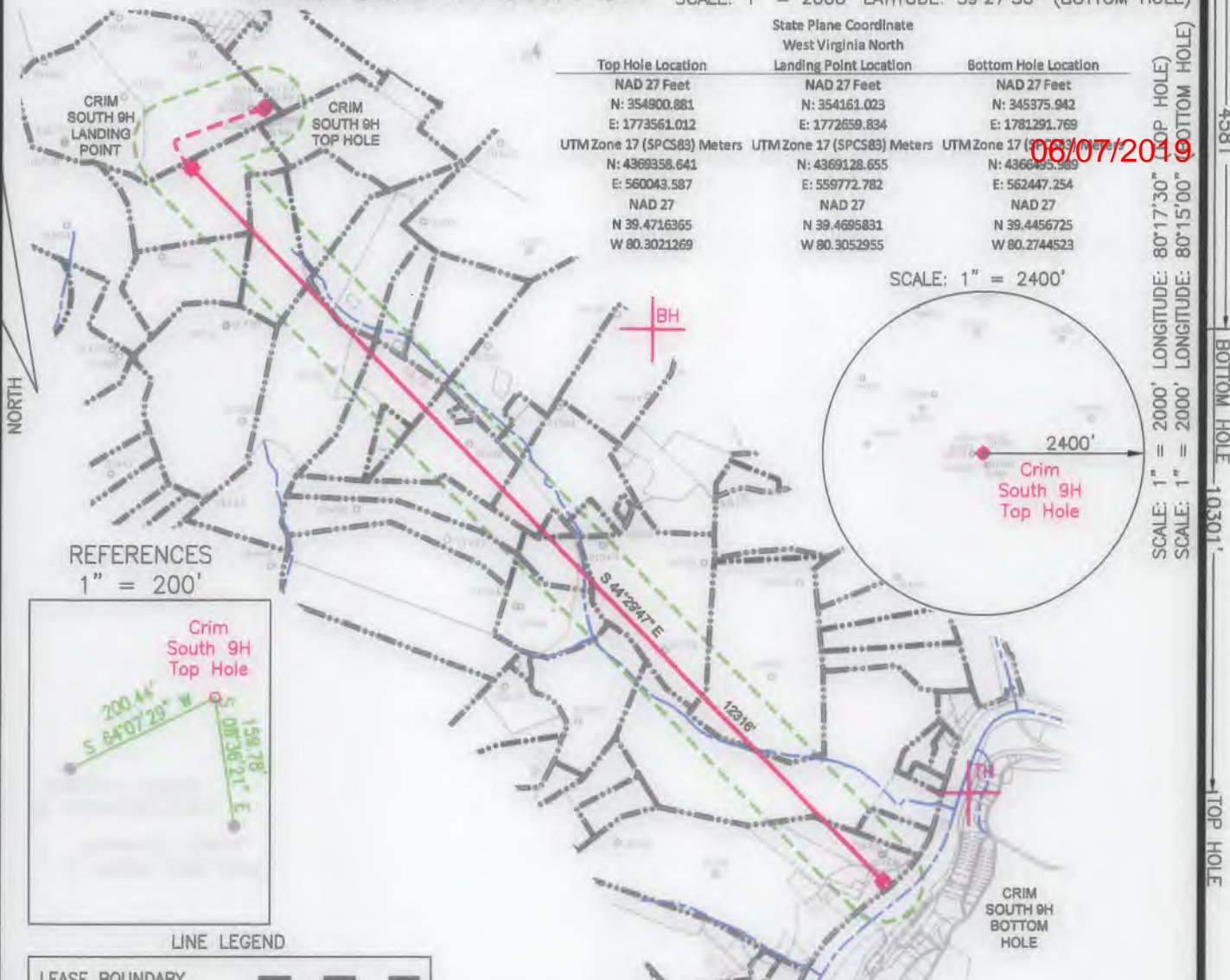
SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

State Plane Coordinate
 West Virginia North

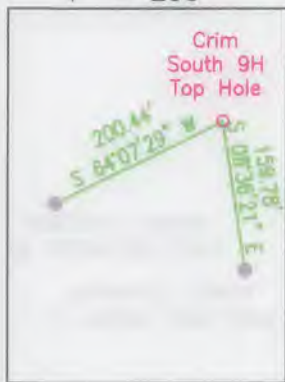
Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 354900.881	N: 354161.023	N: 345375.942
E: 1773561.012	E: 1772659.834	E: 1781291.769
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369358.641	N: 4369128.655	N: 4369055.989
E: 560043.587	E: 559772.782	E: 562447.254
NAD 27	NAD 27	NAD 27
N 39.4716365	N 39.4695831	N 39.4456725
W 80.3021269	W 80.3052955	W 80.2744523

06/07/2019

SCALE: 1" = 2400'



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 #: JC2017-112
 DRAWING #: CRIM SOUTH UNIT 9H 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 SOUTH UNIT 9H
 API WELL #: 47 049 02487
 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: 752.4±

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), 20,181' (TMD)

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

CRIM SOUTH UNIT 9H

State Plane Coordinate
West Virginia North

Top Hole Location	Landing Point Location	Bottom Hole Location
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06/07/2019



CRIM SOUTH UNIT 9H		
LEASE	LESSOR	MINERAL ACREAGE
1)	LOUIS FERRARI, ET UX	101.54
2)	THOMAS MATHENY, ET AL	48.991
3)	WACO OIL AND GAS CO. INC. ET AL	24.32
4)	BRUCE WILFONG, ET UX	68.25
5)	XTO ENERGY INC	48.25
6)	SCOTT C. LIVINGSTON, ET AL	26.626
7)	WILLIAM T. HERBST, ET AL	30.13
8)	CLIFFORD H. MCINTYRE, ET UX	34.34
9)	ROBERT M. POTOCZNY, ET UX	2.00
10)	AMP FUND III, LP	9.80
11)	WACO OIL AND GAS CO. INC	57.60
12)	GRACE CROSSLAND ESTATE, ET AL	92.40
13)	WILLIAM F. SANDY, ET UX	111.823
14)	ULRIC LEDDY, ET AL	105.36

LINE LEGEND	
LEASE BOUNDARY	--- (dashed line)
SURFACE BOUNDARY	- - - (long dashed line)
CREEK / STREAM	~ ~ ~ (dotted line)
ROADS	— (solid line)
PROPOSED LATERAL	— (solid red line)
APPROXIMATE CURVE	- · - · - (dash-dot line)
500' LATERAL OFFSET	- · - · - (dotted green line)

	SURFACE OWNER	TAX PARCEL
A	HEATHER D. SHUMATE, ET VIR	11-50-1.2
B	JON PARSONS, ET UX	11-50-2.1
C	KEVIN P. MUZYDLA, ET UX	11-51-37
D	KEVIN P. MUZYDLA, ET UX	11-51-39
E	KEVIN P. MUZYDLA, ET UX	11-51-40
F	CURTIS MAYO	11-51-45
G	BOBBIE J. DANIEL	11-51-38

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 SOUTH UNIT 9H

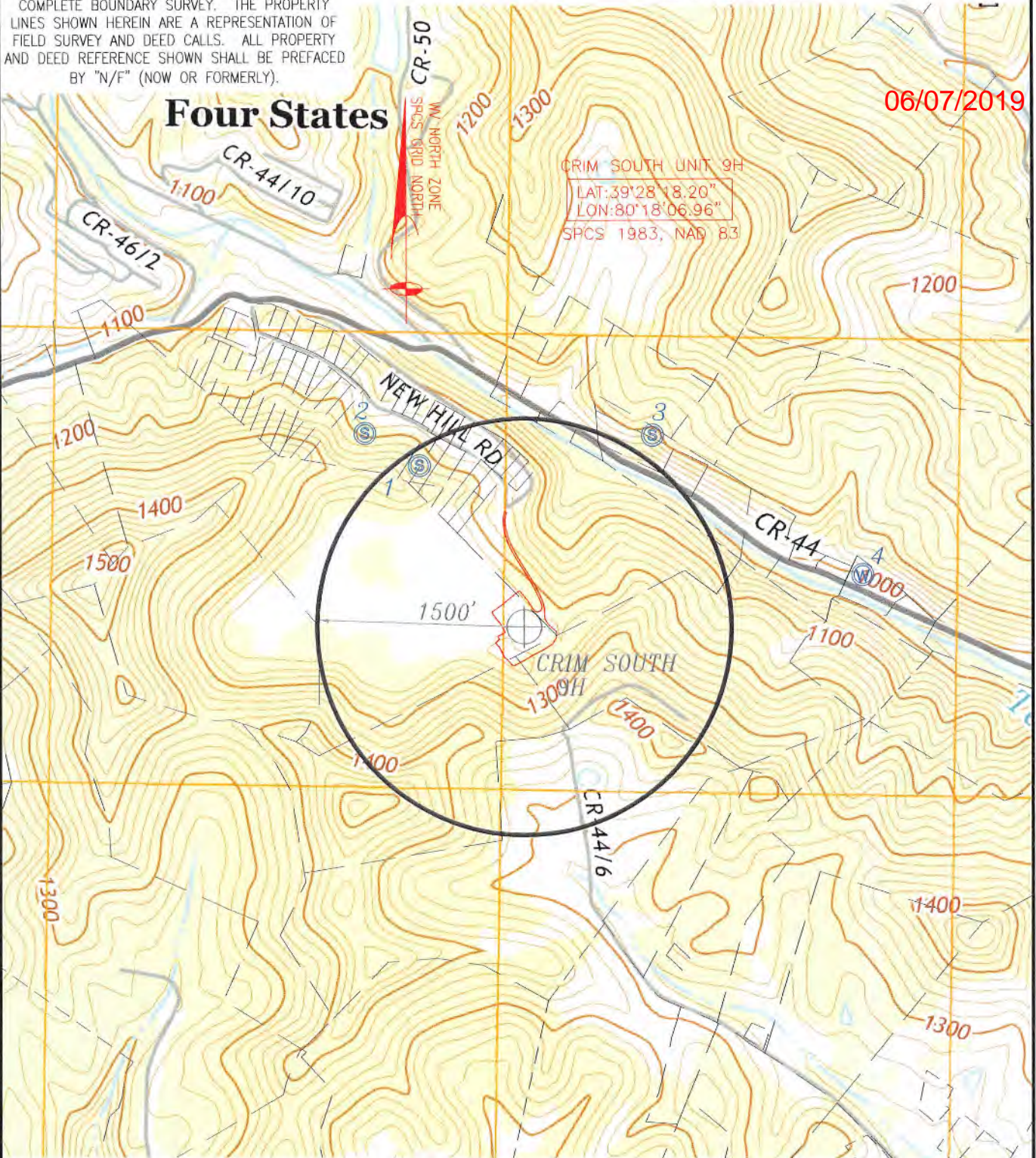
Drawn By: JRV	Date: 11/12/18	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA	
Scale: 1" = 1500'	Sheet: SHEET 2 OF 2	File No.:	JC2017-112
AFE # 1106190			

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	1385'	N 33°02'36" W	Tax Map 11-54, Parcel 29
2	Jimmie & Betty Garrett	P.O. Box 54	Four States	WV	26572	1807'	N 39°31'09" W	Tax Map 11-54, Parcel 30
3	Douglas Moyer	78 Dora Lane	Worthington	WV	26591	1665'	N 33°57'23" E	Tax Map 11-29, Parcel 9.2
4	Gary A. Eagle	868 Four States Road	Worthington	WV	26591	2477'	N 81°20'08" E	Tax Map 11-29, Parcel 10

RECEIVED
Office of Oil and Gas
NOV 19 2018
WV Department of
Environmental Protection

CRIM SOUTH UNIT 9H WATER OVERALL

LINCOLN DISTRICT, MARION COUNTY, WEST VIRGINIA | 9/12/2018 | JC2017-112 | SHEET 1 OF 2

JONES
CONSULTANTS
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DELMONT, PA 15626
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Shinnston Quad (2014)
Marion County, WV
Scale: 1" = 1000'
0' 1000'


XTO
ENERGY
190 THORN HILL ROAD
WARRENDALE, PA 15086