

# CRIM SOUTH UNIT 10H

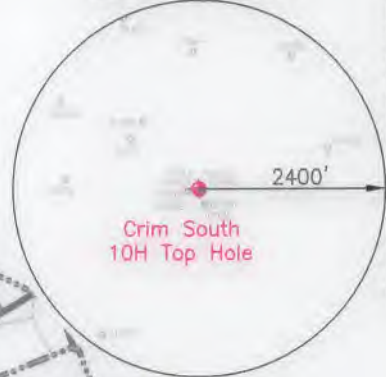
SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)  
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

BOTTOM HOLE | 6324' | TOP HOLE | 2921'

State Plane Coordinate

Top Hole Location	West Virginia North Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 354921.201	N: 354888.277	N: 346096.509
E: 1773538.932	E: 1773726.386	E: 1781824.479
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369364.719	N: 4369188.075	N: 4366718.226
E: 560036.756	E: 560096.827	E: 562605.898
NAD 27	NAD 27	NAD 27
N 39.4716918	N 39.4700960	N 39.4476634
W 80.3022057	W 80.3015233	W 80.2725880

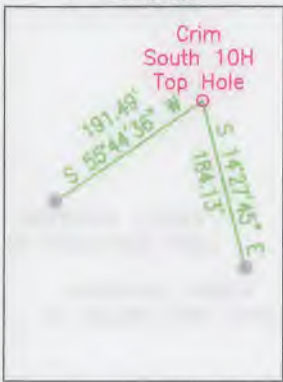
SCALE: 1" = 2400'



3856'  
 10280'  
 SCALE: 1" = 2000' LONGITUDE: 80°17'30" (TOP HOLE)  
 SCALE: 1" = 2000' LONGITUDE: 80°15'00" (BOTTOM 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.



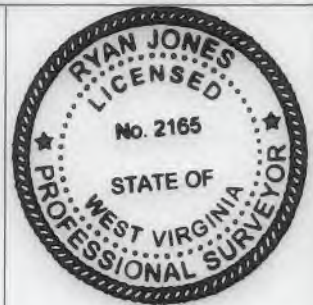
2402 PENNSYLVANIA 66 DELMONT, PA 15626  
 (724) 757 - 2417 www.jonesconsultant.com

SHEET 1 OF 2

FILE #: JC2017-17  
 DRAWING #: CRIM SOUTH UNIT 10H 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 10H  
 API WELL #: 47 049 02489  
 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: 672.6±

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), 19,453' (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 SOUTH UNIT 10H

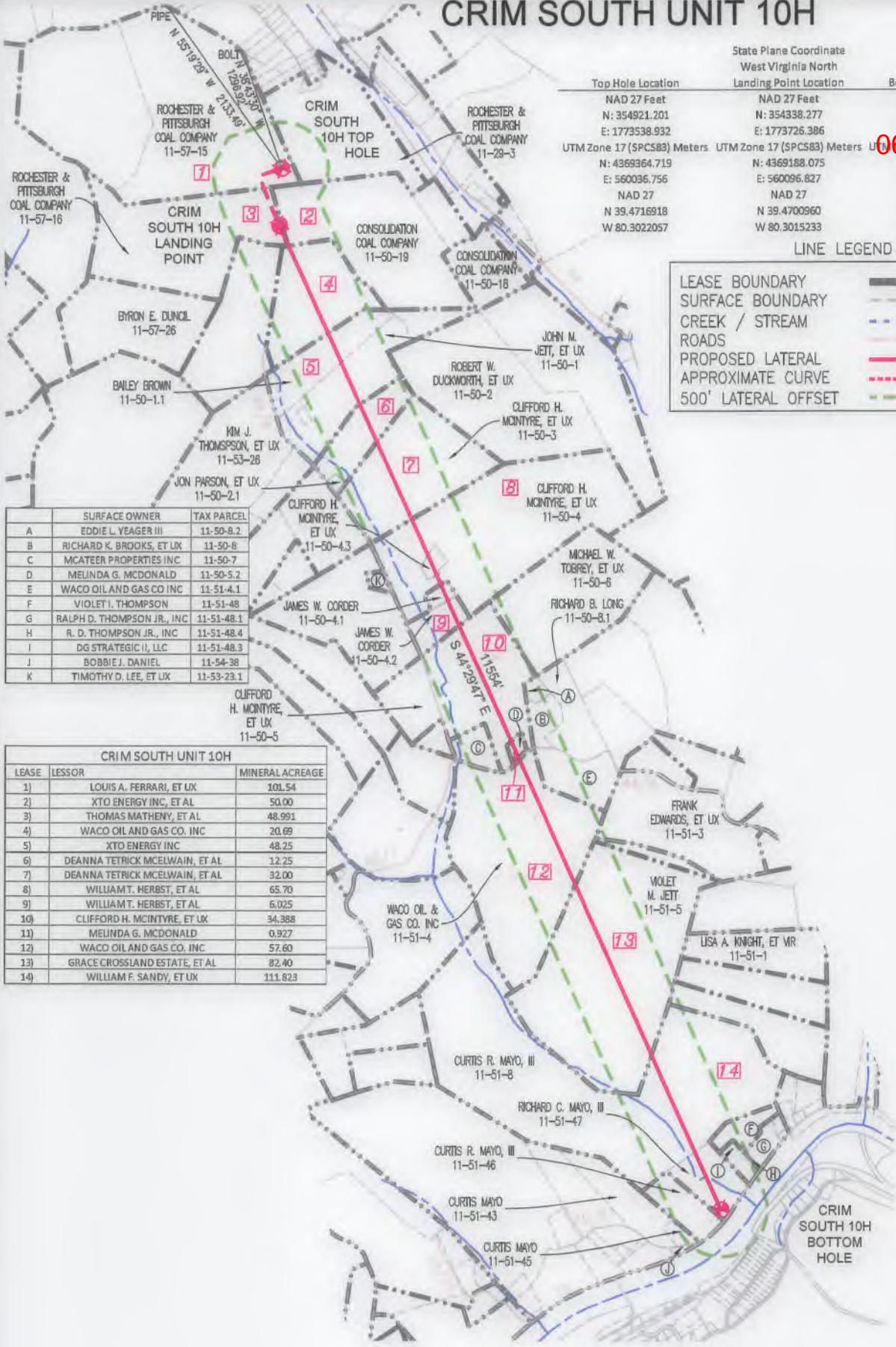
State Plane Coordinate  
West Virginia North

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N 39.4716918	N 39.4700960	N 39.4476534
W 80.3022057	W 80.3015233	W 80.2725880

06/07/2019

### LINE LEGEND

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



	SURFACE OWNER	TAX PARCEL
A	EDDIE L. YEAGER III	11-50-8.2
B	RICHARD K. BROOKS, ET UX	11-50-8
C	MCATEER PROPERTIES INC	11-50-7
D	MELINDA G. McDONALD	11-50-5.2
E	WACO OIL AND GAS CO INC	11-51-4.1
F	VIOLET I. THOMPSON	11-51-48
G	RALPH D. THOMPSON JR., INC	11-51-48.1
H	R. D. THOMPSON JR., INC	11-51-48.4
I	DG STRATEGIC II, LLC	11-51-48.3
J	BOBBIE J. DANIEL	11-54-38
K	TIMOTHY D. LEE, ET UX	11-53-23.1

CRIM SOUTH UNIT 10H		
LEASE	LESSOR	MINERAL ACREAGE
1)	LOUIS A. FERRARI, ET UX	101.54
2)	XTO ENERGY INC, ET AL	50.00
3)	THOMAS MATHENY, ET AL	48.991
4)	WACO OIL AND GAS CO. INC	20.69
5)	XTO ENERGY INC	48.25
6)	DEANNA TETRICK MCELWAIN, ET AL	12.25
7)	DEANNA TETRICK MCELWAIN, ET AL	32.00
8)	WILLIAM T. HERBST, ET AL	65.70
9)	WILLIAM T. HERBST, ET AL	6.025
10)	CLIFFORD H. MCINTYRE, ET UX	34.388
11)	MELINDA G. McDONALD	0.927
12)	WACO OIL AND GAS CO. INC	57.60
13)	GRACE CROSSLAND ESTATE, ET AL	82.40
14)	WILLIAM F. SANDY, ET UX	111.823

### 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 10H

Drawn By:	Date:	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA	
JRV	11/12/18	Sheet:	File No.:
Scale:	1" = 1500'	SHEET 2 OF 2	JC2017-17
AFE #	1106192		



190 THORN HILL ROAD  
WARRENDALE, PA 15086

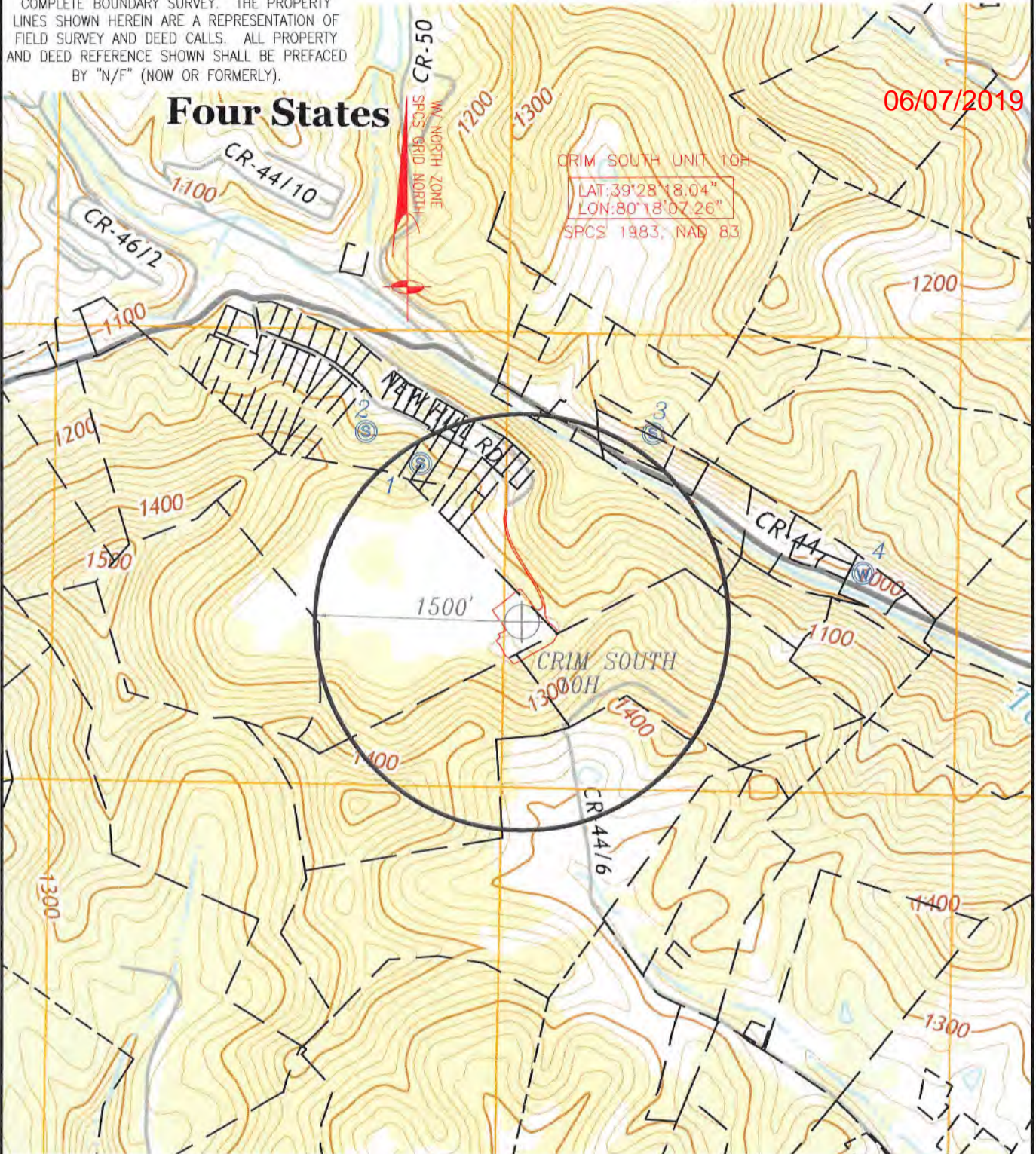


FORM W-9

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	Perry E. Heflin	P.O. Box 155	Four States	WV	26572	1356'	N 32°43'46" W	Tax Map 11-54, Parcel 29
2	Jimmie & Betty Garrett	P.O. Box 54	Four States	WV	26572	1778'	N 39°23'13" W	Tax Map 11-54, Parcel 30
3	Douglas Moyer	78 Dora Lane	Worthington	WV	26591	1661'	N 34°58'46" E	Tax Map 11-29, Parcel 9.2
4	Gary A. Eagle	868 Four States Road	Worthington	WV	26591	2496'	N 81°52'23" E	Tax Map 11-29, Parcel 10

CRIM SOUTH UNIT 10H WATER OVERALL

LINCOLN DISTRICT, MARION COUNTY, WEST VIRGINIA | 9/20/2018 | JC2017-17 | SHEET 1 OF 2

**JONES**  
CONSULTANTS  
2402 PENNSYLVANIA 66  
DELMONT, PA 15626  
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www.jonesconsultant.com

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



190 THORN HILL ROAD  
WARRENDALE, PA 15086

RECEIVED  
Office of Oil and Gas  
NOV 19 2018

WV Department of  
Environmental Protection