

BRENNAN NW 13H

SCALE: 1" = 2400'

LATITUDE: 39°32'30"
SCALE 1" = 2000'

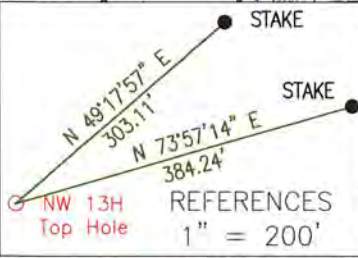
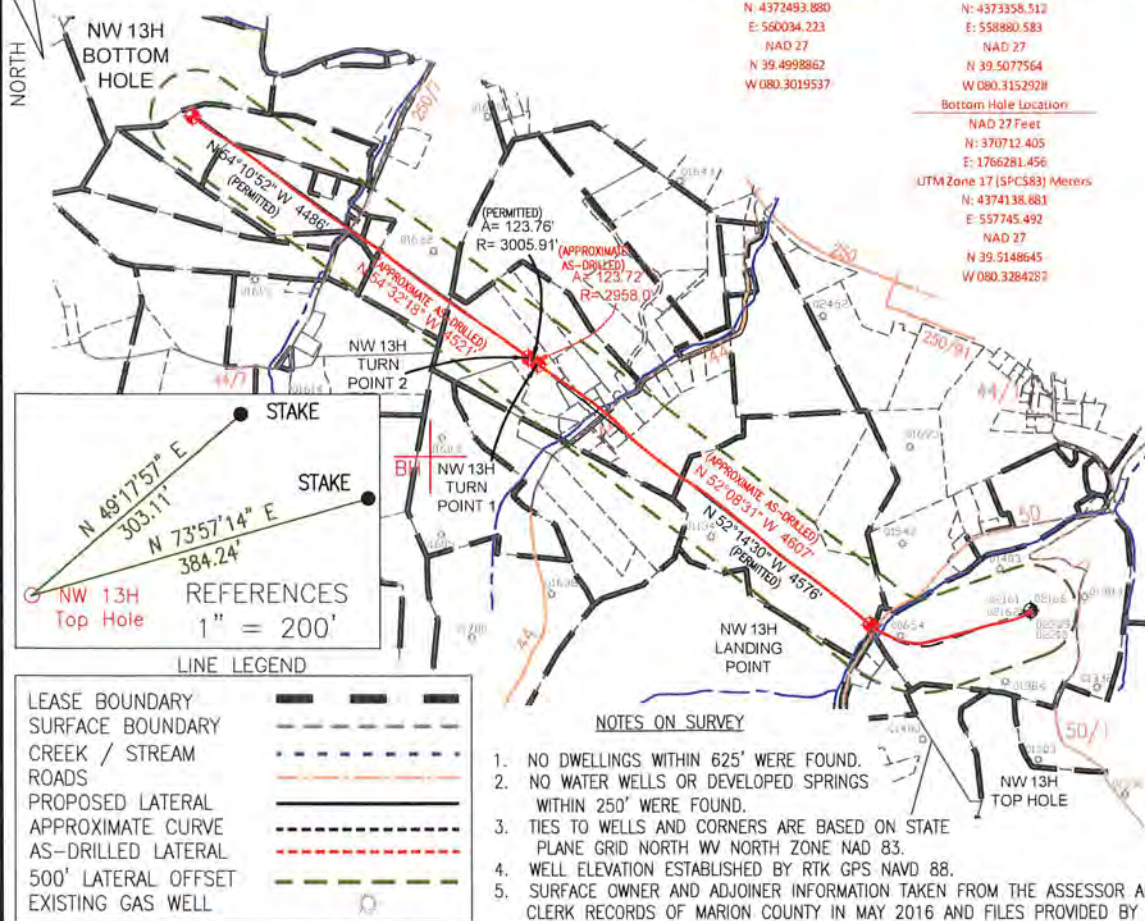
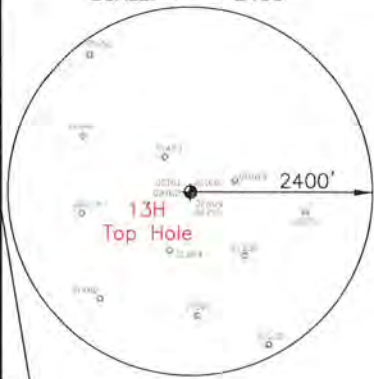
AS-DRILLED

State Plane Coordinate West Virginia North	State Plane Coordinate West Virginia North
Top Hole Location	Turn Point 1
NAD 27 Feet N: 365343.510 E: 1775459.183	NAD 27 Feet N: 368016.861 E: 1770064.006
UTM Zone 17 (SPCS83) Meters N: 4372549.784 E: 560568.880	UTM Zone 17 (SPCS83) Meters N: 4373336.856 E: 558911.583
NAD 27 N 39.5003524 W 080.2957309	NAD 27 N 39.5075591 W 080.3149253
Landing Point Location	Turn Point 2
NAD 27 Feet N: 365189.323 E: 1773701.737	NAD 27 Feet N: 368089.613 E: 1769963.793
UTM Zone 17 (SPCS83) Meters N: 4372493.880 E: 560094.223	UTM Zone 17 (SPCS83) Meters N: 4373358.512 E: 558880.583
NAD 27 N 39.4998862 W 080.3019537	NAD 27 N 39.5077564 W 080.3152920
	Bottom Hole Location
	NAD 27 Feet N: 370712.405 E: 1766281.456
	UTM Zone 17 (SPCS83) Meters N: 4374138.681 E: 557745.492
	NAD 27 N 39.5148645 W 080.3284287

02/15/2019

PERMITTED

State Plane Coordinate West Virginia North
Top Hole Location
NAD 27 Feet N: 365343.510 E: 1775459.183
UTM Zone 17 (SPCS83) Meters N: 4372549.784 E: 560568.880
NAD 27 N 39.5003524 W 080.2957309
Landing Point Location
NAD 27 Feet N: 365213.569 E: 1773681.054
UTM Zone 17 (SPCS83) Meters N: 4372501.162 E: 560027.798
NAD 27 N 39.4995522 W 080.3020278
Turn Point 1
NAD 27 Feet N: 368015.695 E: 1770063.038
UTM Zone 17 (SPCS83) Meters N: 4373336.496 E: 558911.294
NAD 27 N 39.5075559 W 080.3149387
Turn Point 2
NAD 27 Feet N: 368089.442 E: 1769963.657
UTM Zone 17 (SPCS83) Meters N: 4373358.459 E: 558880.642
NAD 27 N 39.5077559 W 080.3152933
Bottom Hole Location
NAD 27 Feet N: 370714.990 E: 1766325.680
UTM Zone 17 (SPCS83) Meters N: 4374139.893 E: 557758.953
NAD 27 N 39.5148728 W 080.3282720



LINE LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	- - - -
CREEK / STREAM	~ ~ ~ ~
ROADS	— — — —
PROPOSED LATERAL	— — — —
APPROXIMATE CURVE	- - - -
AS-DRILLED LATERAL	- - - -
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 MAY 2016 AND FILES PROVIDED BY XTO ENERGY, INC.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.



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

SHEET 1 OF 2

FILE #: JC2016-31
DRAWING #: BRENNAN NW 13H 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: *Ryan Jones*
R.P.E.: _____ P.S.: 2165



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

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

WATERSHED: BUFFALO CREEK (0502000301)
COUNTY/DISTRICT: MARION / LINCOLN
SURFACE OWNER: RICHARD & JOCELYN BOWER
OIL & GAS ROYALTY OWNER: JOHN E. BRENNAN, ET AL



DATE: 08/03/2018
OPERATOR'S WELL #: BRENNAN NW 13H
API WELL #: 47 049 02426
STATE COUNTY PERMIT

ELEVATION: 1,252' FINISHED GRADE
QUADRANGLE: MANNINGTON 7.5'
ACREAGE: 94.5±
ACREAGE: 419±

RECEIVED
Office of Oil and Gas
DEC 20 2018
WV Department of Environmental Protection

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: 7,703' (TVD) 17,775' (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

BRENNAN NW 13H

LINE LEGEND

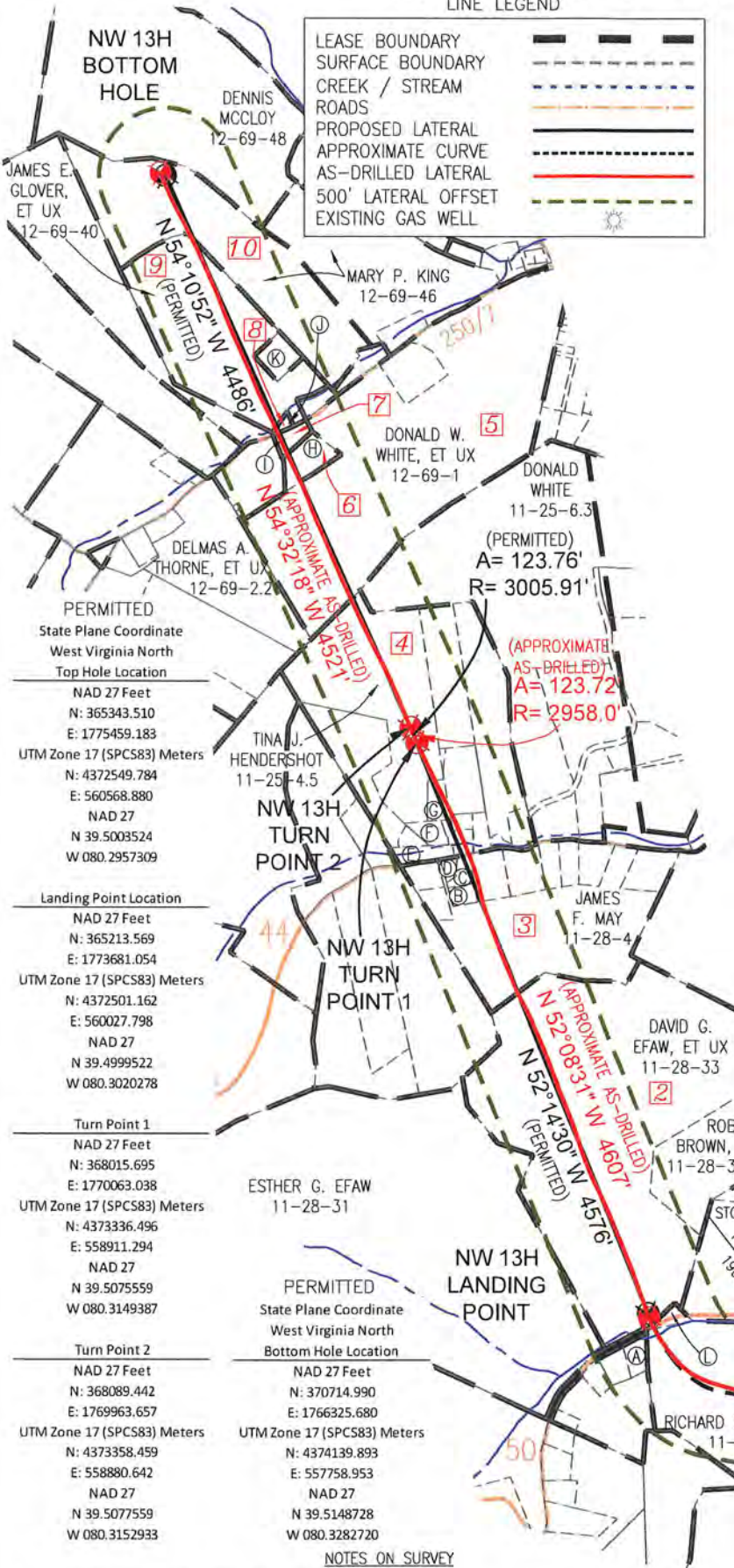
LEASE BOUNDARY	
SURFACE BOUNDARY	
CREEK / STREAM	
ROADS	
PROPOSED LATERAL	
APPROXIMATE CURVE	
AS-DRILLED LATERAL	
500' LATERAL OFFSET	
EXISTING GAS WELL	

AS-DRILLED	AS-DRILLED
State Plane Coordinate	State Plane Coordinate
West Virginia North	West Virginia North
Top Hole Location	Turn Point 2
NAD 27 Feet	NAD 27 Feet
N: 365343.510	N: 368089.611
E: 1775459.183	E: 1769963.657
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
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E: 560568.880	E: 558880.583
NAD 27	NAD 27
N 39.5003524	N 39.5077564
W 080.2957309	W 080.3152928
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Turn Point 1	
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N: 368016.861	
E: 1770064.006	
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N: 4373336.856	
E: 558911.583	
NAD 27	
N 39.5075591	
W 080.3149353	

02/15/2019

BRENNAN NW 13H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JOHN E. BRENNAN	94.5000
2)	NANCY FOUT	109.4100
3)	JAMES W. TAYLOR, ET AL	35.2500
4)	JAMES W. TAYLOR, ET AL	57.1600
5)	DONALD W. WHITE, ET UX	66.3600
6)	THOMAS W. NEER, ET UX	2.1800
7)	ROBERT A. ICE, ET AL	1.00551
8)	KENNIS S. KETTERER, JR., ET AL	0.30938
9)	KENNIS S. KETTERER, JR., ET AL	24.689
10)	KENNIS S. KETTERER, JR., ET AL	28.115

LETTER	SURFACE OWNER	TAX PARCEL
A	ROBERT A. CREMEENS	11 28 32.4
B	NELLIE HAYES	11 28 4.5
C	NELLIE HAYES	11 28 4.3
D	PHILLIP M. HAYES, ET UX	11 28 4.10
E	KENNETH HAUGHT, ET UX	11 25 4.1
F	KENNETH HAUGHT, ET UX	11 25 4.3
G	JESSE W. MOORE, ET UX	11 25 4
H	THOMAS W. NEER, ET UX	12 69 1.2
I	HELLEN R. ICE, ET AL	12 69 42.1
J	TRUSTEES OF TRINITY TEMPLE	12 69 42
K	MARY P. KING	12 69 41
L	FAYE C. ROCKWELL	11 28 35



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JONES CONSULTANTS, LLC

RECEIVED
Office of Oil and Gas
DEC 20 2018
West Virginia Department of Environmental Protection



XTO ENERGY
190 THORN HILL ROAD
WARRENDALE, PA 15086

0' 1200'



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

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT		
BRENNAN NW 13H		
Drawn By:	Date:	LINCOLN DISTRICT
JRV	08/02/18	MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1200'	Sheet:	File No.:
N/E # 1503643	SHEET 2 OF 2	JC2016-31