

SCALE: 1" = 2400'

WORTHINGTON A 3H

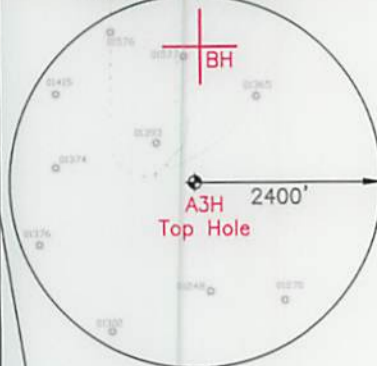
LATITUDE: 39°30'00"
SCALE 1" = 3000'

NOTES ON SURVEY

LINE LEGEND

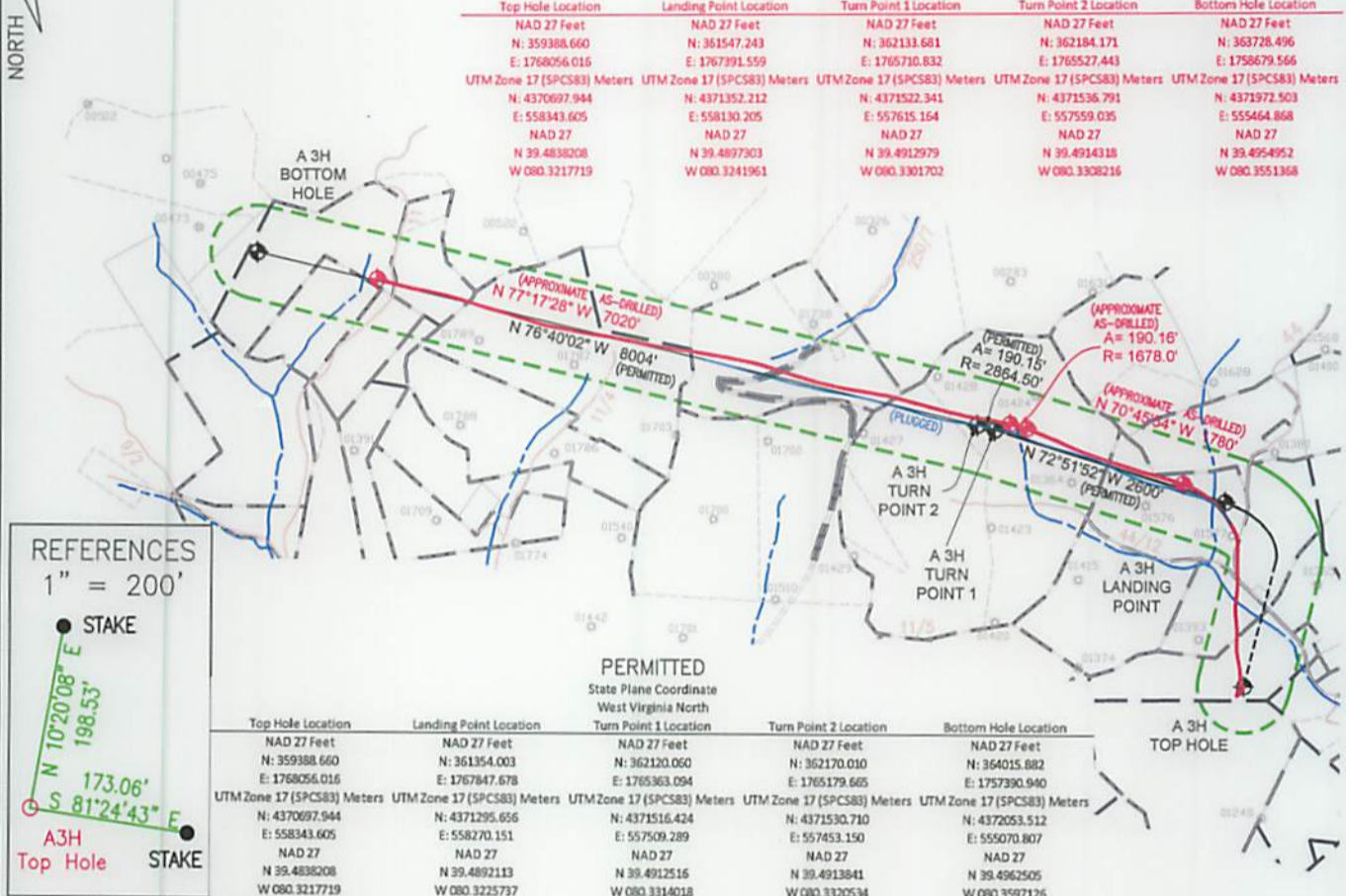
- LEASE BOUNDARY
- SURFACE BOUNDARY
- CREEK / STREAM
- ROADS
- PROPOSED LATERAL
- APPROXIMATE CURVE
- AS-DRILLED LATERAL
- 500' LATERAL OFFSET
- EXISTING GAS WELL

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 WVDEP.

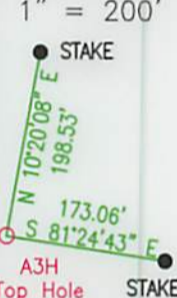


TH
AS-DRILLED

Top Hole Location	Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 359388.660 E: 1768056.016	NAD 27 Feet N: 361547.243 E: 1767891.559	NAD 27 Feet N: 362133.681 E: 1765710.832	NAD 27 Feet N: 362184.171 E: 1765527.443	NAD 27 Feet N: 363728.496 E: 1758679.566
UTM Zone 17 (SPCS83) Meters N: 4370697.944 E: 558343.605	UTM Zone 17 (SPCS83) Meters N: 4371352.212 E: 558130.205	UTM Zone 17 (SPCS83) Meters N: 4371522.341 E: 557615.164	UTM Zone 17 (SPCS83) Meters N: 4371536.791 E: 557559.035	UTM Zone 17 (SPCS83) Meters N: 4371972.503 E: 555464.868
NAD 27 N 39.4838208 W 080.3217719	NAD 27 N 39.4897303 W 080.3241961	NAD 27 N 39.4912979 W 080.3301702	NAD 27 N 39.4914318 W 080.3308216	NAD 27 N 39.4954952 W 080.3551368



REFERENCES



PERMITTED State Plane Coordinate West Virginia North

Top Hole Location	Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 359388.660 E: 1768056.016	NAD 27 Feet N: 361354.003 E: 1767847.678	NAD 27 Feet N: 362120.060 E: 1765363.094	NAD 27 Feet N: 362170.010 E: 1765179.665	NAD 27 Feet N: 364015.882 E: 1757390.940
UTM Zone 17 (SPCS83) Meters N: 4370697.944 E: 558343.605	UTM Zone 17 (SPCS83) Meters N: 4371295.656 E: 558270.151	UTM Zone 17 (SPCS83) Meters N: 4371516.424 E: 557509.289	UTM Zone 17 (SPCS83) Meters N: 4371530.710 E: 557453.150	UTM Zone 17 (SPCS83) Meters N: 4372053.512 E: 555070.807
NAD 27 N 39.4838208 W 080.3217719	NAD 27 N 39.4892113 W 080.3225737	NAD 27 N 39.4912516 W 080.3314018	NAD 27 N 39.4913841 W 080.3320534	NAD 27 N 39.4962505 W 080.3597126



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

SHEET 1 OF 2

FILE #: JC2016-36
DRAWING #: WORTHINGTON A 3H 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: _____
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: 05/29/2019
OPERATOR'S WELL #: WORTHINGTON A 3H
API WELL #: 47 049 02422
STATE COUNTY PERMIT

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

WATERSHED: LOWER WEST FORK RIVER (0502000206)
COUNTY/DISTRICT: MARION / LINCOLN
SURFACE OWNER: XTO ENERGY INC
OIL & GAS ROYALTY OWNER: RADDISH, ET AL

ELEVATION: 1,194' FINISH GRADE
QUADRANGLE: SHINNSTON 7.5'
ACREAGE: 104.40±
ACREAGE: 478±

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

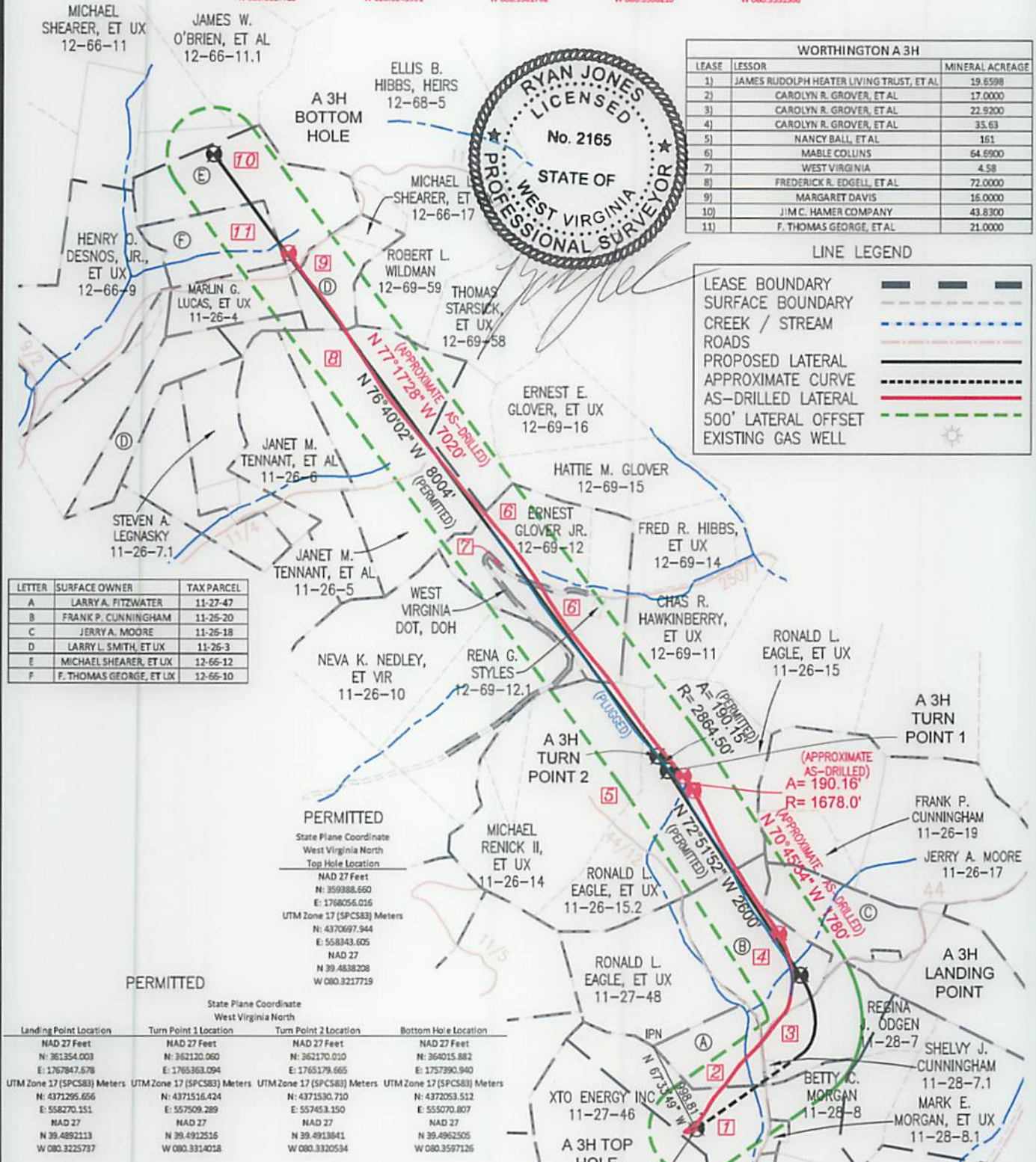
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,589' (TVD), 17,802' (TMD)
WELL OPERATOR: XTO ENERGY INC. DESIGNATED AGENT: GARY BEALL
Address: 190 THORN HILL ROAD Address: P.O. BOX 1008
City: WARRENDALE State: PA Zip Code: 15086 City: JANE LEW State: WV Zip Code: 26378

WORTHINGTON A 3H

AS-DRILLED

State Plane Coordinate
West Virginia North

Top Hole Location	Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 359388.660 E: 1768056.016	NAD 27 Feet N: 361547.243 E: 1767391.559	NAD 27 Feet N: 362133.681 E: 1765710.832	NAD 27 Feet N: 362184.171 E: 1765527.443	NAD 27 Feet N: 363728.496 E: 1758679.566
UTM Zone 17 (SPCS83) Meters N: 4370697.944 E: 558343.605	UTM Zone 17 (SPCS83) Meters N: 4371352.212 E: 558130.205	UTM Zone 17 (SPCS83) Meters N: 4371522.341 E: 557815.164	UTM Zone 17 (SPCS83) Meters N: 4371536.791 E: 557559.035	UTM Zone 17 (SPCS83) Meters N: 4371972.503 E: 555464.868
NAD 27 N 39.4838208 W 080.3217719	NAD 27 N 39.4897303 W 080.3241961	NAD 27 N 39.4912979 W 080.3301702	NAD 27 N 39.4914318 W 080.3308215	NAD 27 N 39.4954952 W 080.3551368



LETTER	SURFACE OWNER	TAX PARCEL
A	LARRY A. FITZWATER	11-27-47
B	FRANK P. CUNNINGHAM	11-25-20
C	JERRY A. MOORE	11-26-18
D	LARRY L. SMITH, ET UX	11-26-3
E	MICHAEL SHEARER, ET UX	12-66-12
F	F. THOMAS GEORGE, ET UX	12-66-10

PERMITTED

State Plane Coordinate
West Virginia North

Top Hole Location

Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 359388.660 E: 1768056.016	NAD 27 Feet N: 362120.060 E: 1765363.094	NAD 27 Feet N: 362170.010 E: 1765179.665	NAD 27 Feet N: 364015.882 E: 1757390.940
UTM Zone 17 (SPCS83) Meters N: 4370697.944 E: 558343.605	UTM Zone 17 (SPCS83) Meters N: 4371516.424 E: 557509.289	UTM Zone 17 (SPCS83) Meters N: 4371530.710 E: 557453.150	UTM Zone 17 (SPCS83) Meters N: 4372053.512 E: 555070.807
NAD 27 N 39.4838208 W 080.3217719	NAD 27 N 39.4912516 W 080.3314018	NAD 27 N 39.4913841 W 080.3320534	NAD 27 N 39.4962505 W 080.3597125

PERMITTED

State Plane Coordinate
West Virginia North

Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 361354.003 E: 1767847.678	NAD 27 Feet N: 362120.060 E: 1765363.094	NAD 27 Feet N: 362170.010 E: 1765179.665	NAD 27 Feet N: 364015.882 E: 1757390.940
UTM Zone 17 (SPCS83) Meters N: 4371295.656 E: 558270.151	UTM Zone 17 (SPCS83) Meters N: 4371516.424 E: 557509.289	UTM Zone 17 (SPCS83) Meters N: 4371530.710 E: 557453.150	UTM Zone 17 (SPCS83) Meters N: 4372053.512 E: 555070.807
NAD 27 N 39.4892113 W 080.3225737	NAD 27 N 39.4912516 W 080.3314018	NAD 27 N 39.4913841 W 080.3320534	NAD 27 N 39.4962505 W 080.3597125

- NOTES ON SURVEY**
- 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 MAY 2016 AND FILES PROVIDED BY XTO ENERGY, INC.
 - WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.

WORTHINGTON A 3H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JAMES RUDOLPH HEATER LIVING TRUST, ET AL	19.6598
2)	CAROLYN R. GROVER, ET AL	17.0000
3)	CAROLYN R. GROVER, ET AL	22.9200
4)	CAROLYN R. GROVER, ET AL	35.63
5)	NANCY BALL, ET AL	161
6)	MABLE COLLINS	64.6900
7)	WEST VIRGINIA	4.58
8)	FREDERICK R. EDGELL, ET AL	72.0000
9)	MARGARET DAVIS	16.0000
10)	JIM C. HAMER COMPANY	43.8300
11)	F. THOMAS GEORGE, ET AL	21.0000

LINE LEGEND

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

JONES CONSULTANTS, LLC

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



XTO ENERGY

190 THORN HILL ROAD
WARRENDALE, PA 15086

0' 1500'



SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT		
WORTHINGTON A 3H		
Drawn By: JRV	Date: 05/29/19	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2016-36
AFE # 1305457		