

# WORTHINGTON A 3H

LATITUDE: 39°30'00"  
SCALE 1" = 3000'

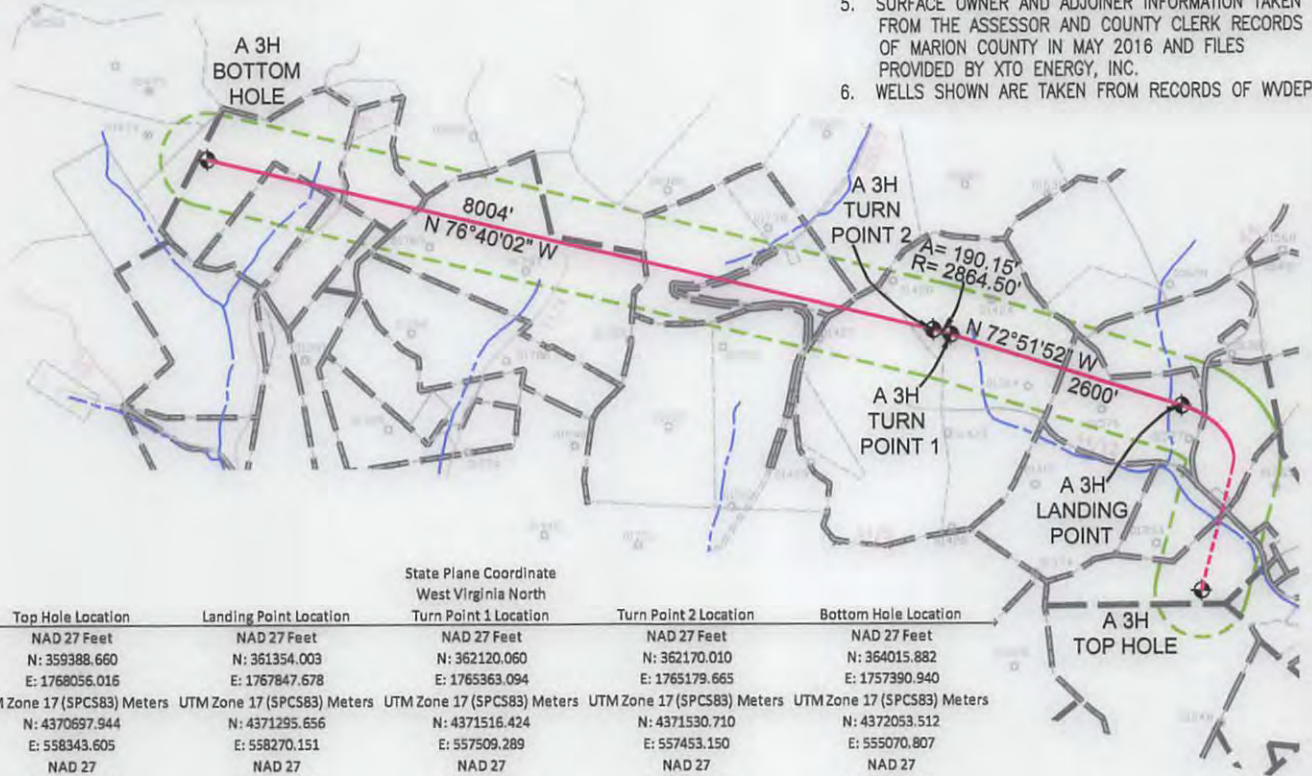
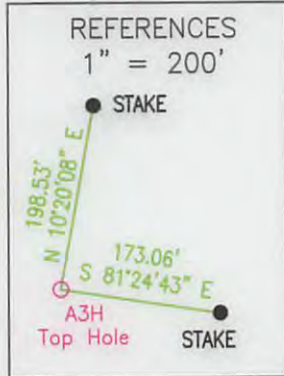
SCALE: 1" = 2400'

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 MAY 2016 AND FILES PROVIDED BY XTO ENERGY, INC.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.



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

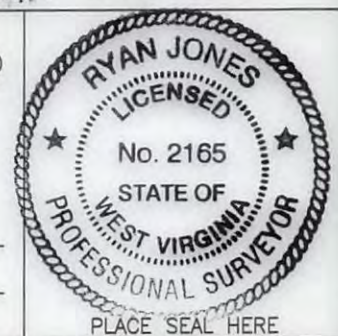
www.jonesconsultant.com

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: *Ryan Jones*  
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: 09/21/2016  
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' (PROPOSED PAD FINISH GRADE)  
QUADRANGLE: SHINNSTON 7.5'  
ACREAGE: 104.40±  
ACREAGE: 478±

03/03/2017

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: 7.550' (TVD), 19.447' (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

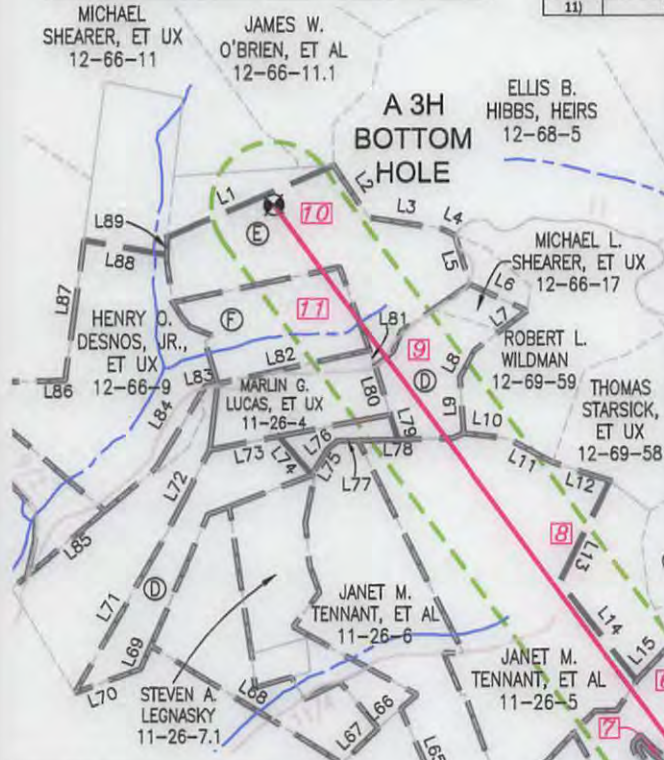
## LINE LEGEND

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

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	43.8900
11)	F. THOMAS GEORGE, ET AL	21.0000

LINE	BEARING	DISTANCE
L21	S 35°20'29" E	927.81'
L22	N 62°43'55" E	260.34'
L23	N 32°43'30" E	280.50'
L24	N 41°28'30" E	181.50'
L25	N 56°58'30" E	218.63'
L26	N 59°13'30" E	156.75'
L27	S 77°04'38" E	210.37'
L28	S 84°45'58" E	387.32'
L29	N 88°55'22" E	178.20'
L30	N 25°47'16" E	82.50'
L31	N 32°47'16" E	165.00'
L32	N 57°23'57" E	652.57'
L33	N 54°20'01" E	144.38'
L34	S 80°09'59" E	297.00'
L35	N 51°50'01" E	643.50'
L36	N 58°50'01" E	346.50'
L37	S 69°09'59" E	396.00'
L38	N 89°36'57" E	291.96'
L39	S 76°06'01" W	1244.82'
L40	S 77°01'11" W	527.94'
L41	S 11°40'01" E	766.54'
L42	S 03°51'40" E	232.14'
L42A	S 33°24'24" E	744.64'
L43	S 76°20'32" E	368.21'
L44	S 33°20'08" W	231.00'
L45	S 11°26'52" W	177.88'
L46	S 65°43'41" W	583.89'
L47	N 29°52'49" W	230.87'
L48	N 24°04'39" W	124.97'
L49	N 57°21'54" E	90.94'
L50	N 38°55'13" W	231.48'
L51	S 54°36'48" W	210.25'
L52	N 45°06'33" W	264.66'
L53	N 46°05'22" W	105.30'
L54	S 47°36'50" W	321.75'
L55	S 46°24'06" W	455.24'
L56	N 83°11'12" W	624.03'
L57	S 79°48'48" W	220.05'
L58	S 57°26'08" W	295.19'
L59	S 73°26'08" W	285.35'
L60	S 04°57'48" W	260.23'
L61	S 07°05'02" E	732.96'
L62	S 46°55'52" E	394.36'
L63	S 51°44'25" W	1281.34'
L64	N 08°16'31" E	635.25'
L65	N 64°06'41" W	843.46'
L66	S 09°12'27" W	238.44'
L67	S 05°56'58" W	404.25'
L68	S 81°28'35" W	1809.14'

LINE	BEARING	DISTANCE
L1	N 26°56'08" E	1456.01'
L2	S 74°37'58" E	503.12'
L3	N 58°36'12" E	576.09'
L4	N 73°36'12" E	132.00'
L5	S 57°09'38" E	408.85'
L6	N 75°03'38" E	507.82'
L7	S 12°55'16" W	528.00'
L8	S 11°06'31" E	247.70'
L9	S 44°04'44" E	445.26'
L10	N 57°11'13" E	363.00'
L11	N 78°01'26" E	404.41'
L12	N 67°18'34" E	482.94'
L13	S 13°19'29" E	900.04'
L14	S 78°11'06" E	1004.62'
L15	N 03°39'55" E	412.50'
L16	N 69°09'55" E	594.00'
L17	N 62°54'55" E	309.38'
L18	N 63°35'23" E	292.87'
L19	N 72°35'23" E	181.50'
L20	S 35°24'37" E	806.02'



LINE	BEARING	DISTANCE
L69	S 16°05'54" E	203.34'
L70	S 29°54'52" W	561.06'
L71	N 10°01'03" W	1452.00'
L72	N 12°01'03" W	767.49'
L73	N 39°01'43" E	566.87'
L74	S 80°35'14" E	405.61'
L75	N 08°38'04" W	231.81'
L76	N 10°21'54" E	115.50'
L77	N 48°45'53" E	165.00'
L78	N 48°45'53" E	320.38'
L79	N 57°19'04" W	209.24'
L80	N 57°19'04" W	407.81'
L81	N 59°49'58" W	136.79'
L82	S 37°19'55" W	1251.47'
L83	S 40°20'15" W	99.32'
L84	S 08°20'07" E	766.48'
L85	S 10°30'09" W	1505.09'
L86	N 48°35'06" E	722.53'
L87	N 32°18'28" W	1135.32'
L88	N 59°53'45" E	672.35'
L89	N 37°29'18" W	137.47'

LETTER	SURFACE OWNER	TAX PARCEL
A	LARRY A. FITZWATER	11-27-47
B	FRANK P. CUNNINGHAM	11-26-20
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

State Plane Coordinate  
West Virginia North  
Top Hole Location  
NAD 27 Feet  
N: 359388.660  
E: 1768055.016

UTM Zone 17 (SPCS83) Meters  
N: 4370697.944  
E: 558343.605

NAD 27  
N 39.4838208  
W 080.3217719

Landing Point Location		Turn Point 1 Location		Turn Point 2 Location		Bottom Hole Location	
NAD 27 Feet		NAD 27 Feet		NAD 27 Feet		NAD 27 Feet	
N: 361354.003	E: 1767847.678	N: 362120.060	E: 1765363.094	N: 362170.010	E: 1765179.665	N: 364015.882	E: 1757390.940
UTM Zone 17 (SPCS83) Meters		UTM Zone 17 (SPCS83) Meters		UTM Zone 17 (SPCS83) Meters		UTM Zone 17 (SPCS83) Meters	
N: 4371295.655	E: 558270.151	N: 4371516.424	E: 557509.289	N: 4371536.710	E: 557453.150	N: 4372053.512	E: 555070.807
NAD 27		NAD 27		NAD 27		NAD 27	
N 39.4892113	W 080.3225737	N 39.4912516	W 080.3314018	N 39.4913841	W 080.3320534	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.
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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

03/03/2017

### SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT

#### WORTHINGTON A 3H

Drawn By: JRV	Date: 09/26/16	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2016-36
AFE # 1305457		

