

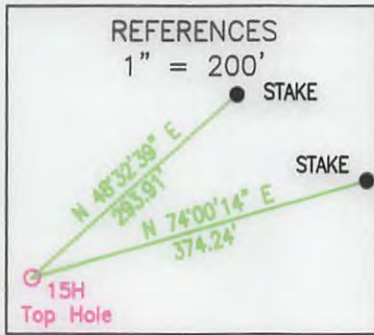
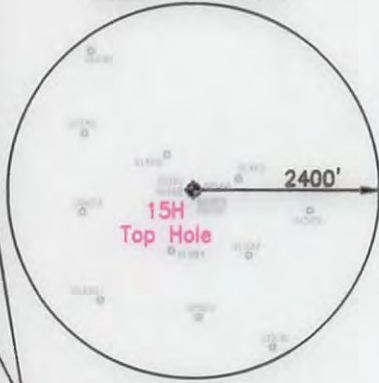
SNIDER 15H

LATITUDE: 39°32'30"
SCALE 1" = 2000'

SCALE: 1" = 2400'

LINE LEGEND

SCALE 1" = 2000'
LONGITUDE: 80°15'00"



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.

NORTH



State Plane Coordinates West Virginia North		
Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 805346.581	N: 366692.503	N: 366389.986
E: 1775468.693	E: 1777747.131	E: 1788258.513
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4372590.767	N: 4372972.400	N: 4372927.537
E: 560571.782	E: 561259.108	E: 564463.249
NAD 27	NAD 27	NAD 27
N 39.5003610	N 39.5041113	N 39.5034729
W 080.2956973	W 080.2876652	W 080.2904050



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

SHEET 1 OF 2

FILE #: JC2016-41
DRAWING #: SNIDER 15H 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: *Brian 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: 12/12/2016

OPERATOR'S WELL #: SNIDER 15H

API WELL #: 47 049 02432 HCA
STATE COUNTY PERMIT

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

ELEVATION: 1,251' (PROPOSED PAD FINISHED GRADE)
QUADRANGLE: MANNINGTON 7.5'
ACREAGE: 94.5±
ACREAGE: 727±

02/17/2017

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: 7,672' (TVD) 19,316' (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

SNIDER 15H

LINE	BEARING	DISTANCE
L1	S 68°55'38" E	742.38'
L2	S 69°28'39" E	90.86'
L3	S 07°08'17" W	17.15'
L4	S 70°58'28" E	97.88'
L5	S 21°19'04" W	48.81'
L6	S 60°28'41" E	369.15'
L7	S 34°57'44" W	1008.49'
L8	S 14°51'13" E	103.39'
L9	S 11°43'40" W	81.74'
L10	S 37°05'11" W	68.75'
L11	N 77°21'13" W	128.74'
L12	S 56°06'28" W	227.51'
L13	S 24°20'44" E	123.38'
L14	N 80°38'21" E	190.79'
L15	N 72°37'12" E	29.85'
L16	N 52°29'17" E	28.43'
L17	N 37°03'58" E	68.71'
L18	S 38°25'00" E	360.69'
L19	S 05°42'00" E	428.39'
L20	S 07°38'00" W	570.86'
L21	S 88°04'13" E	1349.33'
L22	N 11°54'25" E	401.93'
L23	N 10°19'57" E	274.59'
L24	N 82°08'57" E	274.74'
L25	N 70°04'57" E	520.25'
L26	N 83°57'57" E	200.15'
L27	N 15°32'27" E	891.78'
L28	N 89°18'57" E	618.03'
L29	N 81°01'43" E	399.71'
L30	N 07°58'33" W	488.04'
L31	S 06°55'03" E	512.68'
L32	S 85°45'57" W	580.13'
L33	S 14°12'03" E	526.70'
L34	S 62°58'55" E	681.26'
L35	S 89°12'28" E	225.24'
L36	N 74°29'32" E	499.36'
L37	N 17°03'41" E	71.77'
L38	N 03°39'28" E	30.84'
L39	N 07°17'56" W	191.53'
L40	N 02°08'33" E	274.02'
L41	N 09°01'44" E	214.73'
L42	N 14°23'21" E	141.68'
L43	S 51°44'55" E	32.34'
L44	S 21°44'55" E	358.00'
L45	N 54°00'05" E	545.31'
L46	S 07°18'55" E	665.80'
L47	S 76°14'55" E	425.57'
L48	N 02°59'23" W	313.36'
L49	S 76°12'50" E	1248.41'
L50	S 12°23'42" W	95.84'
L51	S 04°54'37" W	201.42'
L52	S 01°01'44" E	32.06'
L53	S 07°11'05" W	77.36'
L54	S 13°09'33" W	46.29'
L55	S 17°32'13" W	433.94'

LINE	BEARING	DISTANCE
L56	S 15°43'08" W	86.99'
L57	S 10°42'06" W	9.81'
L58	S 68°25'27" E	324.50'
L59	S 46°50'37" E	141.48'
L60	S 37°08'37" E	192.35'
L61	S 73°14'37" E	267.72'
L62	S 21°01'54" W	292.29'
L63	S 64°39'08" W	388.10'
L64	S 65°05'33" W	119.10'
L65	S 12°55'33" W	40.08'
L66	S 68°40'33" W	62.08'
L67	N 02°49'29" W	45.32'
L68	N 07°00'17" E	22.38'
L69	N 20°07'29" E	34.42'
L70	N 32°08'31" E	20.97'
L71	N 31°18'10" E	79.31'
L72	N 24°19'21" E	60.95'
L73	S 52°05'27" E	87.80'
L74	N 24°31'33" E	217.00'
L75	N 85°32'27" W	41.95'
L76	N 12°09'27" W	299.40'
L77	N 35°58'27" W	92.00'
L78	S 50°03'33" W	108.28'
L79	S 33°07'40" E	62.15'
L80	S 20°41'23" E	16.47'
L81	S 13°57'08" E	124.20'

Top Hole Location	State Plane Coordinate West Virginia North Landing Point Location	Bottom Hole Location
NAD 27 Foot	NAD 27 Foot	NAD 27 Foot
N: 365346.581	N: 366092.903	N: 366092.985
E: 1775498.698	E: 1777747.131	E: 1788258.513
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4372890.767	N: 4372972.400	N: 4372927.537
E: 590571.762	E: 591299.108	E: 594463.249
NAD 27	NAD 27	NAD 27
N 39.5009810	N 39.5041113	N 39.5094729
W 080.2996973	W 080.2876632	W 080.2904050

NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
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3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
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6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDPE.

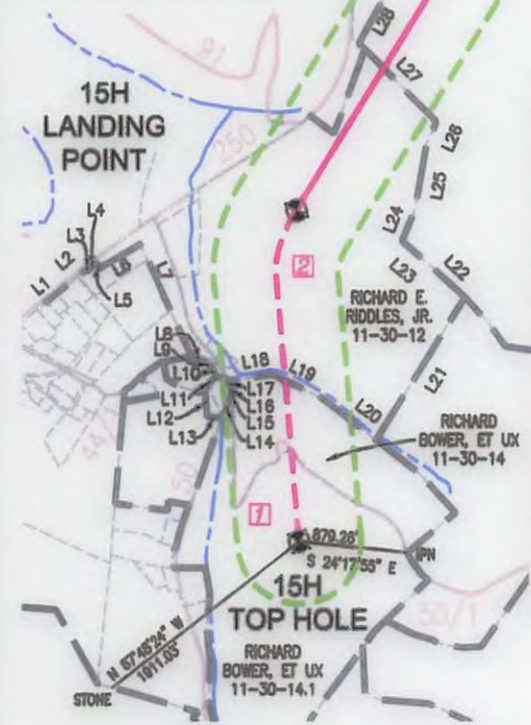
SNIDER 15H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JOHN E. BRENNAN	94.5000
2)	E.T. WOOD, ET AL	110
3)	ROBERT F. HORNER, ET AL	361.59
4)	JULIA CINALLI, ET AL	4.51
5)	ROBERT F. HORNER, ET AL	361.59
6)	PAULA A. WILLIAMS, ET AL	39.82
7)	PAUL KORSH, ET AL	3.26
8)	RONALD J. MERRILL, ET UX	1.0875
9)	KAREN JOHNSON, ET AL	36.125
10)	YVONNE GIBBONS, ET AL	75.75

LETTER	SURFACE OWNER	TAX PARCEL
A	GARY L. KING, ET AL	11-31-16
B	NORMA L. DAVIS	11-31-17
C	NORMA L. DAVIS	11-31-23
D	THOMAS R. BURGESS, ET UX	11-31-22
E	GEORGE W. TENNANT, SR., ET UX	11-31-22.1
F	PAUL KORSH, ET UX	11-30-41
G	PAUL KORSH, ET UX	11-30-41.1
H	RICHARD A. WADDELL, ET AL	11-30-37
I	PETER J. ALASKY, III, ET UX	11-44-42.2
J	ANTHONY P. BURNSIDE, ET AL	11-44-42.4
K	THREE A'S INC	11-44-25
L	JOHN JONES	11-44-48
M	DONALD G. MORGAN, ET UX	11-44-46
N	PRIMEACRE LAND CORPORATION	11-44-21
O	RONALD J. MERRILL, ET UX	11-44-43

LINE LEGEND

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

LINE	BEARING	DISTANCE
L82	S 12°48'18" E	103.22'
L83	N 73°50'08" W	877.15'
L84	N 58°07'24" E	90.37'
L85	N 51°39'47" W	280.44'
L86	S 44°51'53" W	230.89'
L87	S 52°43'49" E	225.72'
L88	S 57°15'43" W	686.79'
L89	N 06°28'23" W	503.22'
L90	N 76°17'29" W	280.98'
L91	N 71°23'35" W	117.73'
L92	N 85°30'30" W	48.95'
L93	S 77°21'31" W	165.15'
L94	S 81°24'57" W	18.47'
L95	N 11°27'00" W	166.03'
L96	S 86°25'00" W	143.44'
L97	N 75°04'51" W	358.82'
L103	S 02°37'28" E	87.68'
L104	S 36°34'24" W	339.03'
L105	S 86°34'24" W	148.50'
L106	S 56°34'24" W	349.80'
L107	S 16°25'36" E	462.00'
L108	S 04°19'24" W	140.25'
L109	S 87°37'49" W	1848.56'
L110	S 38°39'35" E	503.25'
L111	S 05°20'25" W	808.50'



JONES CONSULTANTS, LLC

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 (724) 757 - 2417 www.jonesconsultant.com

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT SNIDER 15H

Drawn By:	Date:	LINCOLN DISTRICT
JRV	12/12/16	MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1500'	Sheet:	File No.:
AFE # 808945	SHEET 2 OF 2	JC2016-41



02/17/2017