

BRENNAN NW 13H

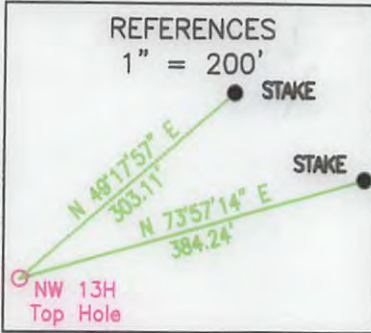
SCALE: 1" = 2400'

LATITUDE: 39°32'30"
SCALE 1" = 2000'

LONGITUDE: 80°17'30"

REFERENCES

1" = 200'



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

State Plane Coordinate
West Virginia North
Landing Point Location
NAD 27 Feet
N: 365213.569
E: 1773681.054
UTM Zone 17 (SPCS83) Meters
N: 4372501.162
E: 560027.788
NAD 27
N 39.4999522
W 080.3020278

Turn Point 1
NAD 27 Feet
N: 368015.695
E: 1770063.038
UTM Zone 17 (SPCS83) Meters
N: 4373336.496
E: 558811.294
NAD 27
N 39.5075559
W 080.3149387

Turn Point 2
NAD 27 Feet
N: 368089.442
E: 1769968.657
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



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 WVDEP.

LINE LEGEND:

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



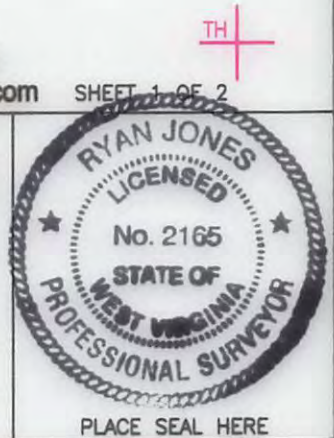
2402 PENNSYLVANIA 66 DELMONT, PA 15626
(724) 757-2417 www.jonesconsultant.com

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 WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: 11/17/2016
OPERATOR'S WELL #: BRENNAN NW 13H
API WELL #: 47 049 02426 MGA
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: 419±

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
WELL OPERATOR: XTO ENERGY INC.
Address: 190 THORN HILL ROAD
City: WARRENDALE State: PA Zip Code: 15086

ESTIMATED DEPTH: 7,677' (TVD) 17,786' (TMD)
DESIGNATED AGENT: GARY BEAL
Address: P.O. BOX 1008
City: JANE LEW State: WV Zip Code: 26378

RECEIVED
Office of Oil and Gas
DEC 0 2016
WV Department of Environmental Protection

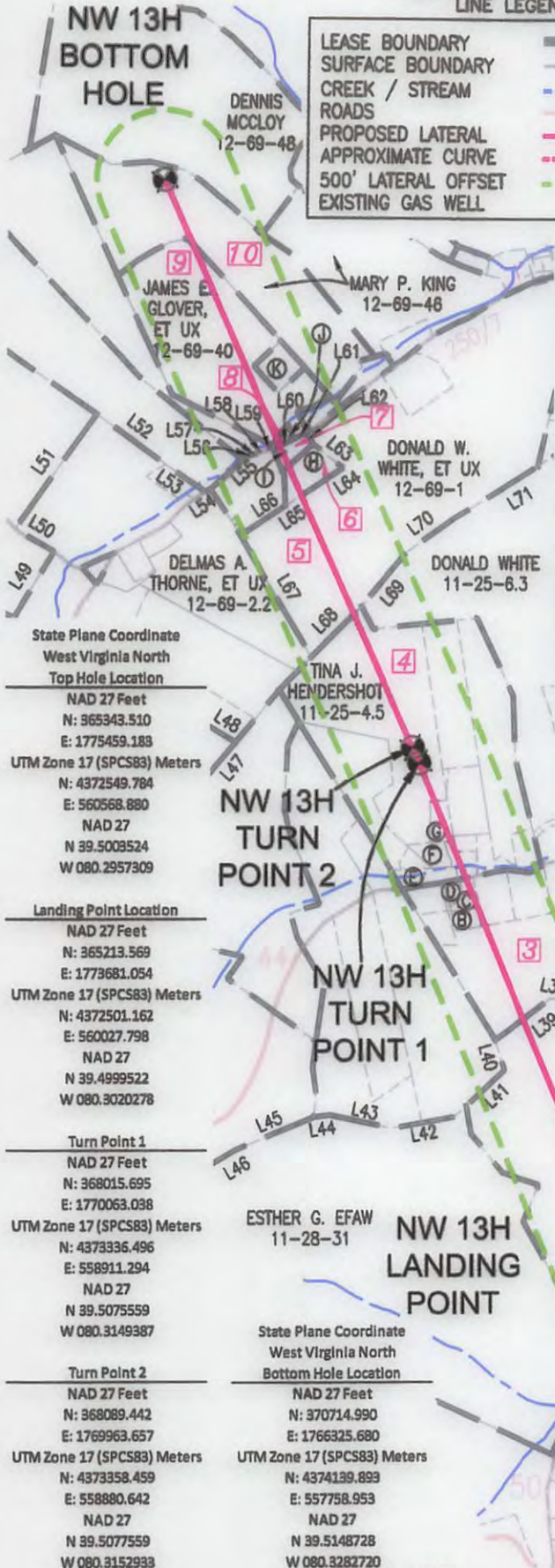
02/17/2017

BRENNAN NW 13H

LINE LEGEND

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

BRENNAN NW 13H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JOHN E. BRENNAN	94.9000
2)	NANCY FOLT	109.4100
3)	JAMES W. TAYLOR, ET AL	33.2800
4)	JAMES W. TAYLOR, ET AL	57.1800
5)	DONALD W. WHITE, ET UX	66.3600
6)	THOMAS W. NEER, ET UX	2.1800
7)	ROBERT A. ICE, ET AL	1.00951
8)	KENNIS S. KETTERER, JR., ET AL	0.90998
9)	KENNIS S. KETTERER, JR., ET AL	24.689
10)	KENNIS S. KETTERER, JR., ET AL	28.113



LINE	BEARING	DISTANCE
L1	N 36°47'22" W	457.63'
L2	N 31°52'42" W	289.41'
L3	N 16°06'24" E	296.72'
L4	S 74°28'03" E	184.57'
L5	N 62°01'57" E	330.00'
L6	N 53°31'57" E	284.00'
L7	N 65°44'26" E	231.44'
L8	N 82°28'13" E	61.31'
L9	N 49°25'19" E	194.13'
L10	N 54°14'56" E	92.94'
L11	N 73°49'27" E	100.52'
L12	N 79°20'02" E	164.71'
L13	N 72°39'59" E	300.64'
L14	N 57°30'01" E	267.63'
L15	N 53°51'34" E	122.27'
L16	N 58°32'42" E	99.63'
L17	N 80°15'59" E	74.37'
L18	N 80°38'21" E	190.79'
L19	N 72°37'12" E	29.65'
L20	N 52°29'17" E	25.43'
L21	N 37°03'58" E	88.71'
L22	S 38°25'00" E	360.69'
L23	S 05°42'00" E	426.39'
L24	S 07°38'00" W	1003.53'
L25	S 17°08'39" W	438.83'

LINE	BEARING	DISTANCE
L26	N 68°58'23" W	505.28'
L27	S 29°32'20" W	65.63'
L28	S 23°35'34" W	138.31'
L29	S 09°20'40" W	53.93'
L30	S 01°29'04" E	17.61'
L31	N 73°37'12" W	592.22'
L32	N 83°59'59" W	891.00'
L33	S 59°07'07" W	132.80'
L34	S 26°57'28" E	1349.25'
L35	S 87°07'57" W	1271.87'
L36	S 00°08'09" W	213.01'
L37	S 65°52'04" W	325.40'
L38	S 72°08'09" W	288.75'
L39	S 23°23'09" W	503.90'
L40	S 46°25'48" E	230.00'
L41	S 17°17'07" W	500.58'
L42	S 49°55'21" W	462.00'
L43	S 72°18'47" W	465.76'
L44	S 52°55'21" W	115.56'
L45	S 37°32'45" W	627.00'
L46	S 29°32'45" W	891.00'
L47	N 10°08'50" E	1058.77'
L48	N 89°00'48" W	761.88'
L49	N 01°42'33" E	557.70'
L50	S 89°58'36" W	330.40'
L51	N 05°29'26" E	1019.17'
L52	S 84°43'30" E	623.56'
L53	S 85°57'31" E	352.14'
L54	N 26°42'25" E	56.40'
L55	N 18°04'37" E	345.49'
L56	N 41°38'19" E	26.08'
L57	N 48°09'36" E	41.62'
L58	N 44°56'42" E	67.32'
L59	N 39°34'51" E	81.76'
L60	N 35°34'27" E	149.76'
L61	N 32°28'03" E	104.67'
L62	S 58°09'18" E	96.50'
L63	S 81°59'41" E	278.45'
L64	S 26°25'42" W	253.20'
L65	S 27°02'42" W	251.10'
L66	S 28°36'13" W	394.34'
L67	S 60°54'07" E	1022.22'
L68	N 14°54'51" E	517.07'
L69	N 09°58'08" E	501.85'
L70	N 24°18'12" E	435.47'
L71	N 28°01'59" E	891.52'

SURFACE OWNER	TAX PARCELS
A	ROBERT A. CRUMMERS 11-28-32.4
B	MELLIE HAYES 11-28-4.8
C	MELLIE HAYES 11-28-4.3
D	PHILIP M. HAYES, ET UX 11-28-4.10
E	KENNETH HAUGHT, ET UX 11-28-4.1
F	KENNETH HAUGHT, ET UX 11-28-4.3
G	JESSE W. MOORE, ET UX 11-28-4
H	THOMAS W. NEER, ET UX 11-28-1.2
I	HELEN R. ICE, ET AL 11-28-42.1
J	TRUSTEES OF TRINITY TEMPLE 11-28-4.3
K	MARY P. KING 11-28-4.1
L	FAVE C. ROCKWELL 11-28-38

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NAD 27 Feet
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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 BRENNAN NW 13H

Drawn By: JRV	Date: 11/17/16	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1200'	Sheet: SHEET 2 OF 2	File No.: JC2016-31



02/17/2017

Office of Oil and Gas