

BOTTOM HOLE ← TOP HOLE ← 8028' 6126'

CRANDS UNIT 6H

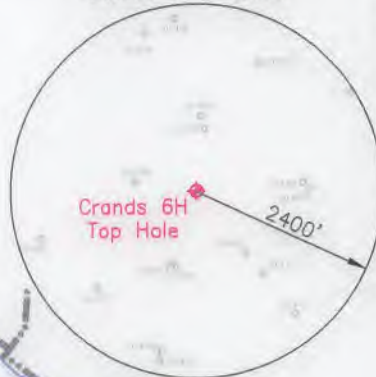
SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

State Plane Coordinate
 West Virginia North

Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 351817.971	N: 352675.910	N: 344053.579
E: 1770306.340	E: 1771631.204	E: 1780103.228
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4368402.857	N: 4368670.970	N: 4366087.077
E: 559067.642	E: 559466.931	E: 562091.854
NAD 27	NAD 27	NAD 27
N 39.4630922	N 39.4654805	N 39.4420138
W 80.3135566	W 080.3088916	W 080.2786202

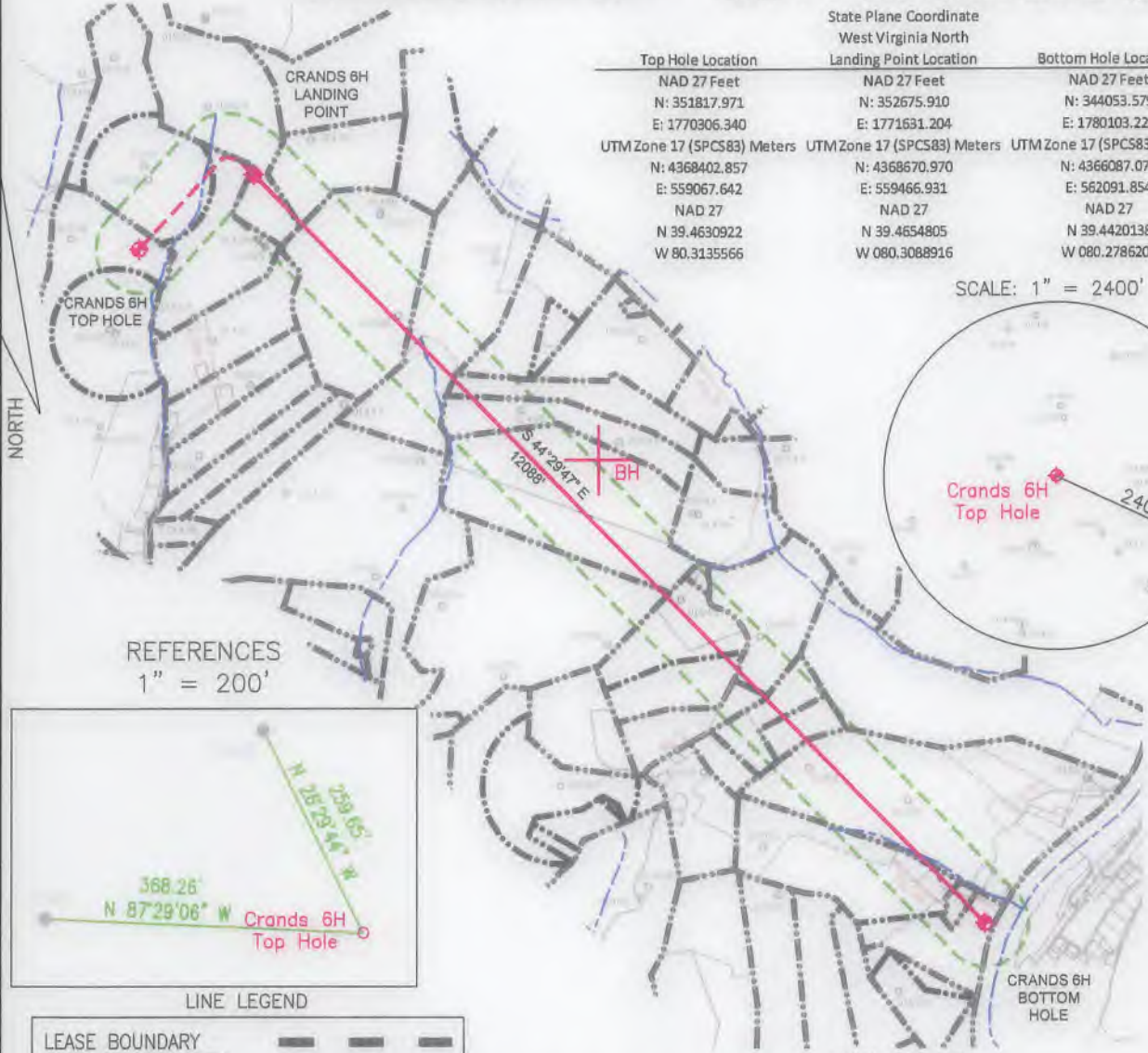
04/19/2019

SCALE: 1" = 2400'

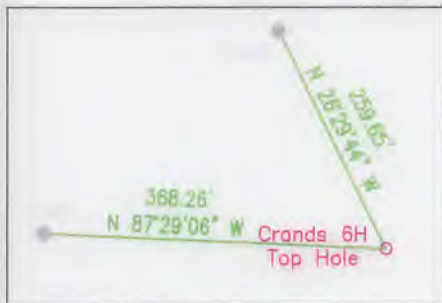


SCALE: 1" = 2000' LONGITUDE: 80°17'30" (TOP HOLE)
 SCALE: 1" = 2000' LONGITUDE: 80°15'00" (BOTTOM HOLE)

5914' BOTTOM HOLE 13413' TOP HOLE



REFERENCES
 1" = 200'



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 OCTOBER 2018 AND FILES PROVIDED BY XTO ENERGY INC.
 6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP AND SURVEYED LOCATIONS OF WELLS WITHIN 500' OF WELL BORE.



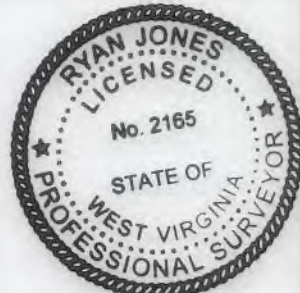
2402 PENNSYLVANIA 66 DELMONT, PA 15626
 (724) 757 - 2417 www.jonesconsultant.com

SHEET 1 OF 2

FILE #: JC2018-79
 DRAWING #: CRANDS UNIT 6H 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: *[Signature]*
 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: 11/14/2018
 OPERATOR'S WELL #: CRANDS UNIT 6H
 API WELL #: 47 049 02493
 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: XTO ENERGY INC

ELEVATION: 1,238' (PROPOSED GRADE)
 QUADRANGLE: SHINNSTON 7.5'
 ACREAGE: 105.34±
 ACREAGE: 1018.7±

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: 7,520' (TVD), 19,983' (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

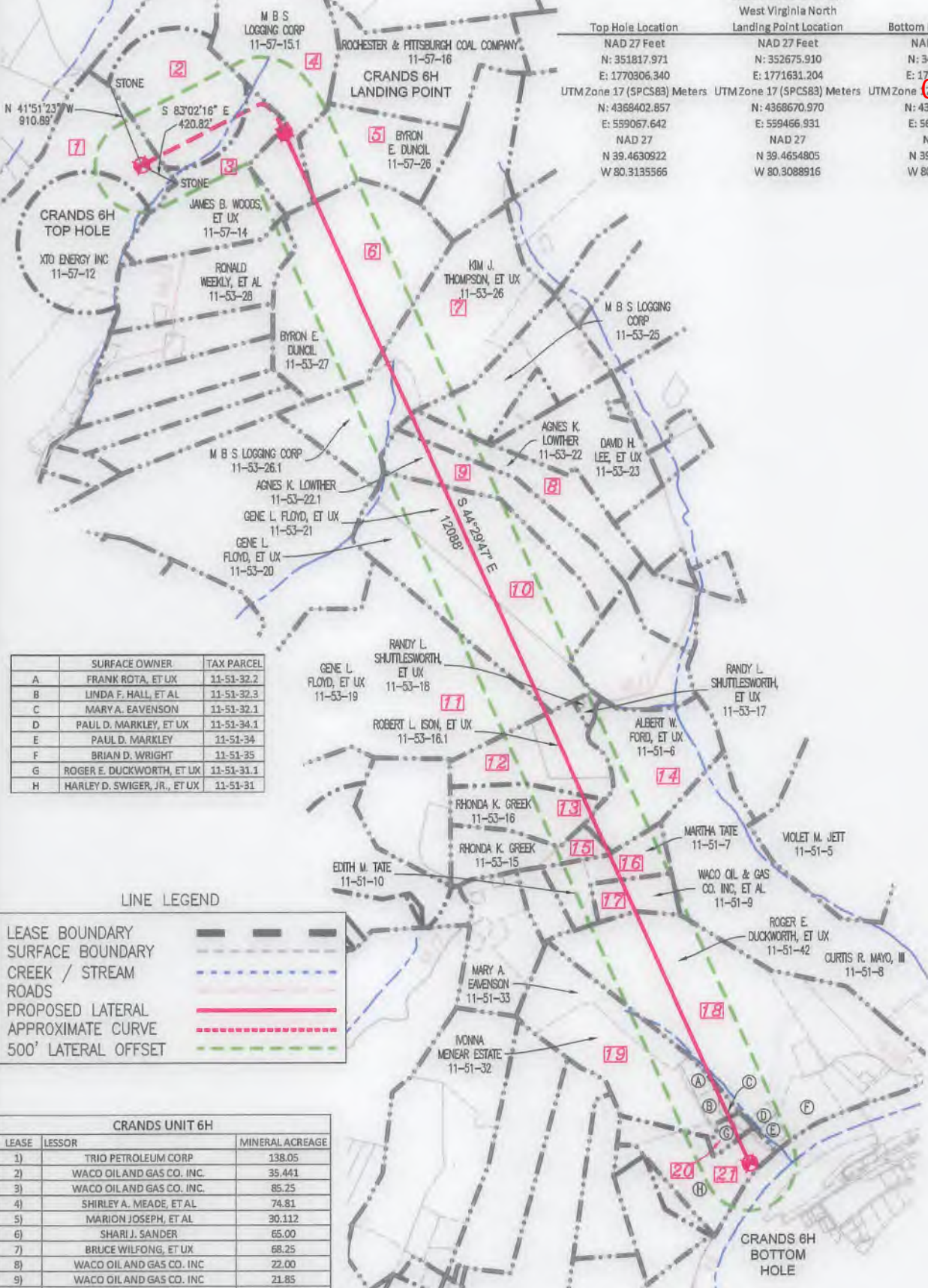
CRANDS UNIT 6H

State Plane Coordinate

West Virginia North

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W 80.3135566	W 80.3088916	W 80.2786202

04/19/2019



	SURFACE OWNER	TAX PARCEL
A	FRANK ROTA, ET UX	11-51-32.2
B	LINDA F. HALL, ET AL	11-51-32.3
C	MARY A. EAVENSON	11-51-32.1
D	PAUL D. MARKLEY, ET UX	11-51-34.1
E	PAUL D. MARKLEY	11-51-34
F	BRIAN D. WRIGHT	11-51-35
G	ROGER E. DUCKWORTH, ET UX	11-51-31.1
H	HARLEY D. SWIGER, JR., ET UX	11-51-31

LINE LEGEND

LEASE BOUNDARY	— — — — —
SURFACE BOUNDARY	- - - - -
CREEK / STREAM	— — — — —
ROADS	— — — — —
PROPOSED LATERAL	— — — — —
APPROXIMATE CURVE	— — — — —
500' LATERAL OFFSET	— — — — —

CRANDS UNIT 6H		
LEASE	LESSOR	MINERAL ACREAGE
1)	TRIO PETROLEUM CORP	138.05
2)	WACO OIL AND GAS CO. INC.	35.441
3)	WACO OIL AND GAS CO. INC.	85.25
4)	SHIRLEY A. MEADE, ET AL	74.81
5)	MARION JOSEPH, ET AL	30.112
6)	SHARI J. SANDER	65.00
7)	BRUCE WILFONG, ET UX	68.25
8)	WACO OIL AND GAS CO. INC	22.00
9)	WACO OIL AND GAS CO. INC	21.85
10)	A. M. HESS, ET UX	85.00
11)	WACO OIL AND GAS CO. INC.	86.00
12)	WACO OIL AND GAS CO. INC.	23.00
13)	RHONDA K. JOHNSTON GREEK	17.89375
14)	WACO OIL AND GAS CO. INC	45.00
15)	RHONDA K. JOHNSTON GREEK	15.54
16)	VIVIAN B. SCHAFER REVOCABLE TRUST	13.48125
17)	XTO ENERGY INC.	7.70
18)	ULRIC LEDDY, ET AL	106.36
19)	J.P. SANDY, ET UX	78.00
20)	J.P. SANDY, ET UX	SAME AS 18
21)	J.P. SANDY, ET UX	SAME AS 18

NOTES ON SURVEY

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JONES CONSULTANTS, LLC



XTO ENERGY
190 THORN HILL ROAD
WARRENDALE, PA 15086



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

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT

CRANDS UNIT 6H

Drawn By: JRV	Date: 11/14/18	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA	
Scale: 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2018-79	
AFE # 1004835			