

BOTTOM HOLE ← 6851' TOP HOLE → 2899'

CRIM SOUTH UNIT 9H

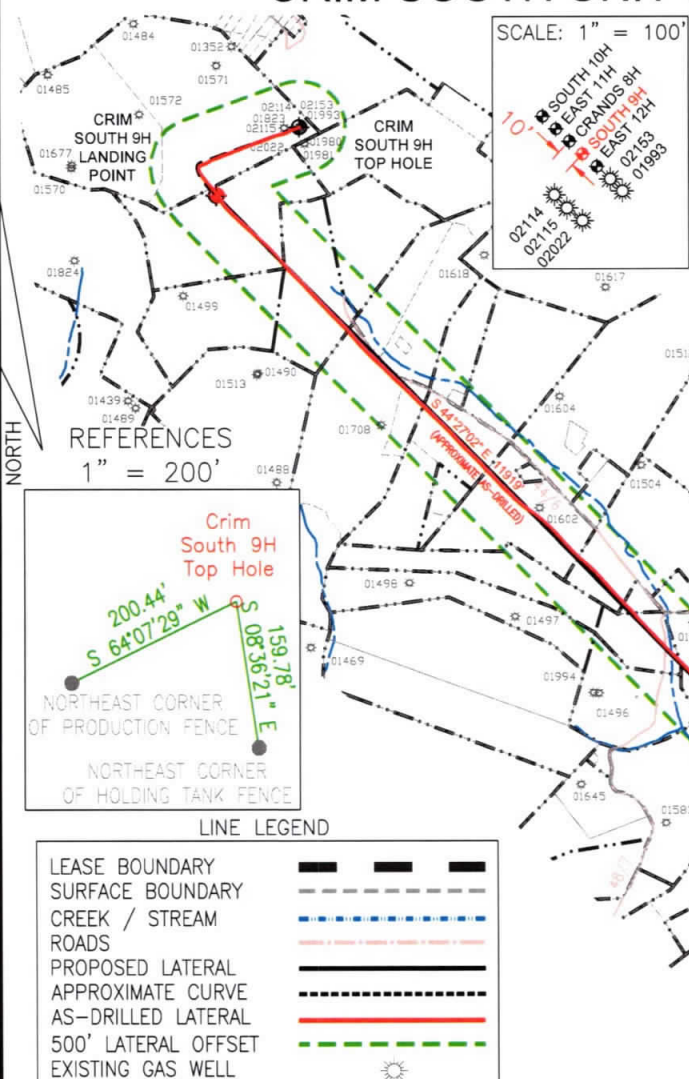
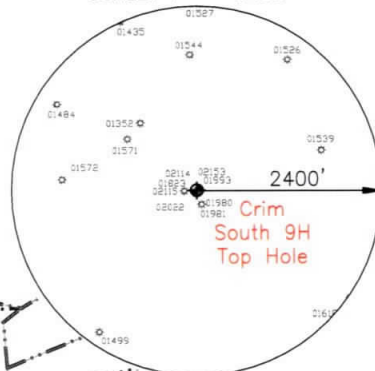
SCALE: 1" = 2000' LATITUDE: 39°30'00" (TOP HOLE)
 SCALE: 1" = 2000' LATITUDE: 39°27'30" (BOTTOM HOLE)

PERMITTED

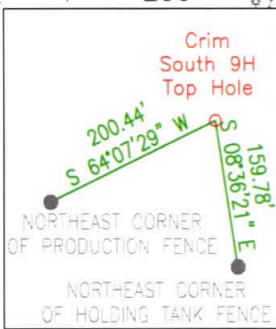
State Plane Coordinate
 West Virginia North

Top Hole Location	Landing Point Location	Bottom Hole Location
NAD 27 Feet	NAD 27 Feet	NAD 27 Feet
N: 354900.881	N: 354161.023	N: 345375.942
E: 1773561.012	E: 1772659.834	E: 1781291.769
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369358.641	N: 4369128.655	N: 4366495.989
E: 560043.587	E: 559772.782	E: 562447.254
NAD 27	NAD 27	NAD 27
N 39.4716365	N 39.4695831	N 39.4456725
W 80.3021269	W 80.3052955	W 80.2744523

SCALE: 1" = 2400'



REFERENCES
 1" = 200'



LINE LEGEND

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

AS-DRILLED

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: 354900.881	N: 354164.550	N: 345655.984
E: 1773561.012	E: 1772674.780	E: 1781021.697
UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters	UTM Zone 17 (SPCS83) Meters
N: 4369358.641	N: 4369129.805	N: 4366579.937
E: 560043.587	E: 559777.318	E: 562363.551
NAD 27	NAD 27	NAD 27
N 39.4716365	N 39.4695932	N 39.4464350
W 80.3021269	W 80.3052427	W 80.2754172

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 APRIL 2020 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.

(724) 757 - 2417

www.jonesconsultant.com



SHEET 1 OF 2

2402 PENNSYLVANIA 66 DELMONT, PA 15626

FILE #: JC2017-112
 DRAWING #: CRIM SOUTH 9H AS-DRILLED
 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: 4/7/2020
 OPERATOR'S WELL #: CRIM SOUTH UNIT 9H
 API WELL #: 47 049 02487
 STATE COUNTY PERMIT

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

WATERSHED: LOWER WEST FORK RIVER (0502000206) ELEVATION: 1,221' (EXISTING FINISH GRADE)
 COUNTY/DISTRICT: MARION / LINCOLN QUADRANGLE: SHINNSTON 7.5'
 SURFACE OWNER: ROCHESTER & PITTSBURGH COAL COMPANY ACREAGE: 55±
 OIL & GAS ROYALTY OWNER: LOUIS A. FERRARI, ET UX ACREAGE: 752.4±

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

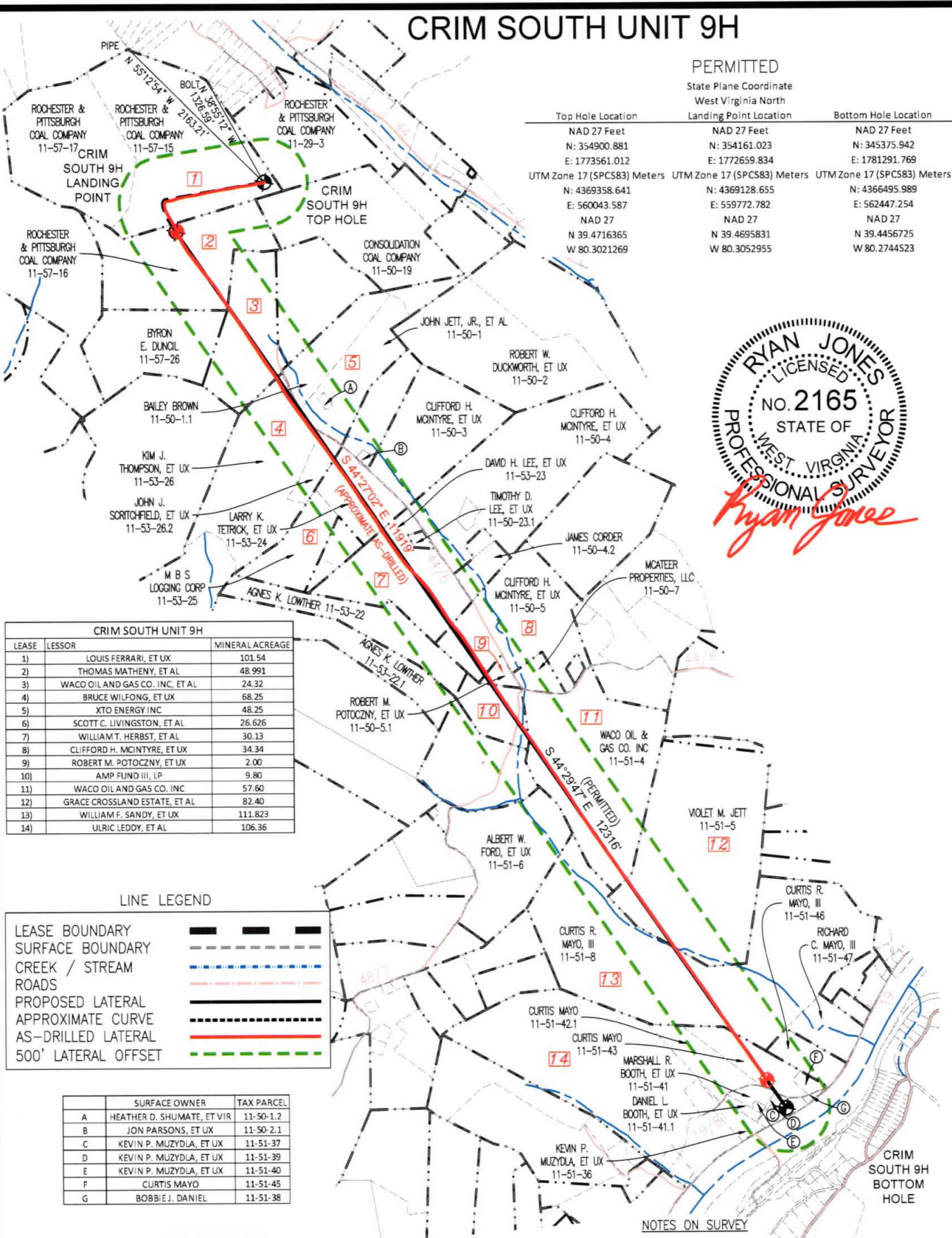
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,584' (TVD), 19,651' (TMD) (AS-DRILLED)
 WELL OPERATOR: XTO ENERGY INC. DESIGNATED AGENT: GARY BEALL
 Address: 190 THORN HILL ROAD Address: P.O. BOX 1008
 City: WARRENDALE State: PA Zip Code: 15086 City: JANE LEW State: WV Zip Code: 26378

CRIM SOUTH UNIT 9H

PERMITTED

State Plane Coordinate
West Virginia North

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CRIM SOUTH UNIT 9H		
LEASE	LESSOR	MINERAL ACREAGE
1)	LOUIS FERRARI, ET UX	101.54
2)	THOMAS MATHENY, ET AL	48.991
3)	WACO OIL AND GAS CO., INC, ET AL	24.32
4)	BRUCE WILFONG, ET UX	68.25
5)	XTO ENERGY INC	48.25
6)	SCOTT C. LIVINGSTON, ET AL	26.626
7)	WILLIAM T. HERBST, ET AL	30.13
8)	CLIFFORD H. MCINTYRE, ET UX	34.34
9)	ROBERT M. POTOCZNY, ET UX	2.00
10)	AMP FUND III, LP	9.90
11)	WACO OIL AND GAS CO., INC	57.60
12)	GRACE CROSSLAND ESTATE, ET AL	82.40
13)	WILLIAM F. SANDY, ET UX	111.823
14)	ULRIC LEDDY, ET AL	106.36

LINE LEGEND

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

	SURFACE OWNER	TAX PARCEL
A	HEATHER D. SHUMATE, ET VIR	11-50-1.2
B	JON PARSONS, ET UX	11-50-2.1
C	KEVIN P. MUZYDLA, ET UX	11-51-37
D	KEVIN P. MUZYDLA, ET UX	11-51-39
E	KEVIN P. MUZYDLA, ET UX	11-51-40
F	CURTIS MAYO	11-51-45
G	BOBBIE J. DANIEL	11-51-38

AS-DRILLED

State Plane Coordinate
West Virginia North

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NAD 27 N 39.4716365 W 80.3021269	NAD 27 N 39.4695932 W 80.3052427	NAD 27 N 39.4464350 W 80.2754172

- NOTES ON SURVEY
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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



190 THORN HILL ROAD
WARRENDALE, PA 15086



SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT

CRIM SOUTH UNIT 9H

Drawn By: JRV	Date: 4/7/2020	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: 1" = 1500'	Sheet: SHEET 2 OF 2	File No.: JC2017-112
AFE # DD.2011.06190.CAP.DRL.01		