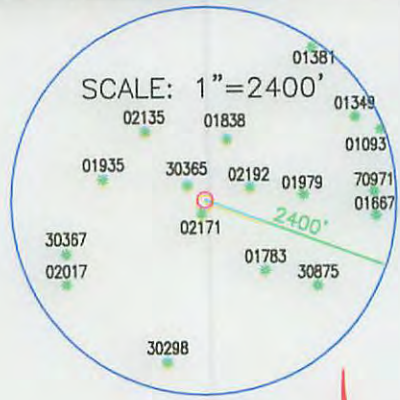
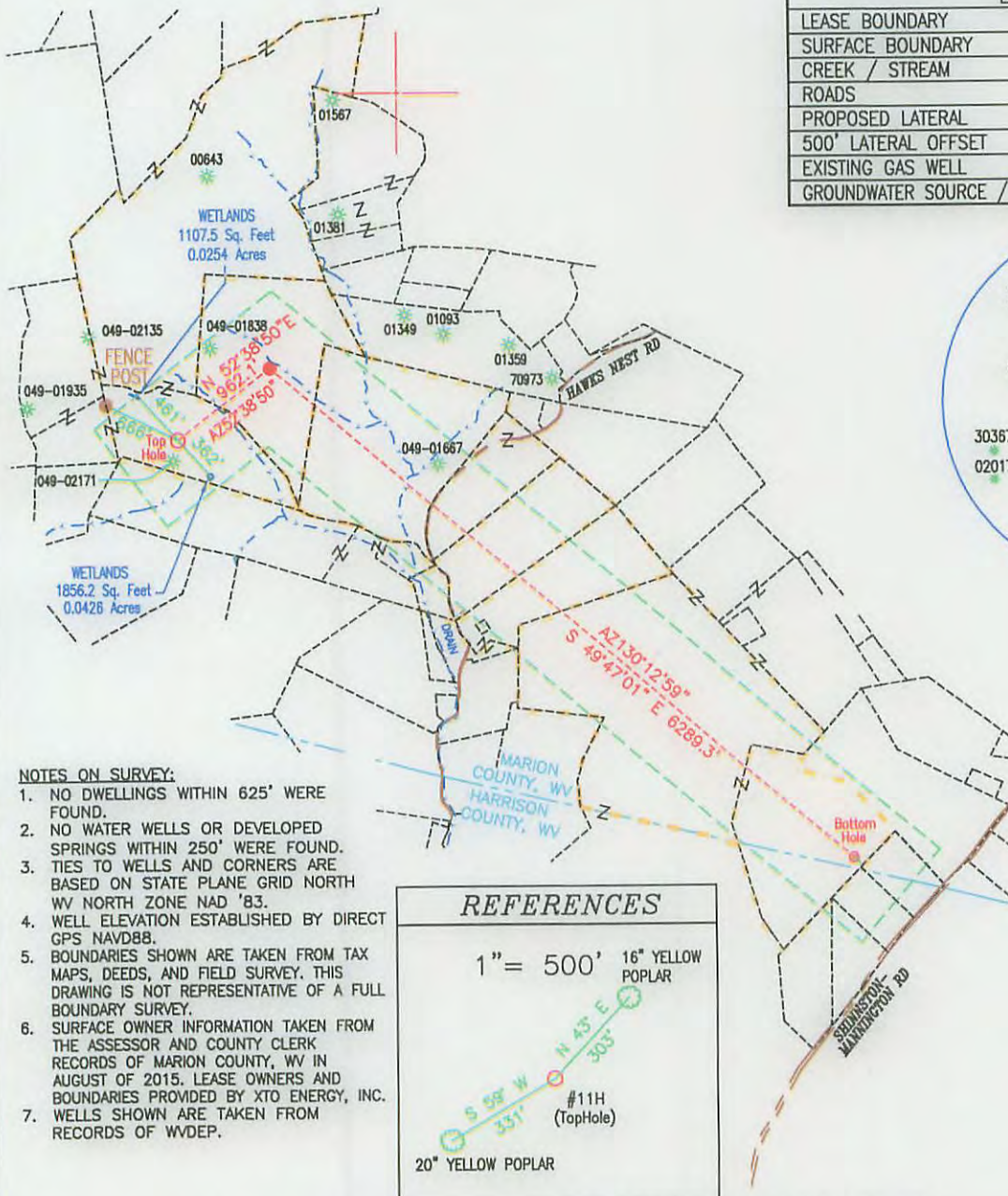


10585' (Scale: 1" = 2000')

Latitude: 39°27'30"

1667' (Scale: 1" = 2000') Longitude: 80°20'00"

LEGEND	
LEASE BOUNDARY	
SURFACE BOUNDARY	
CREEK / STREAM	
ROADS	
PROPOSED LATERAL	
500' LATERAL OFFSET	
EXISTING GAS WELL	
GROUNDWATER SOURCE / WATER SUPPLY	



- 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 DIRECT GPS NAVD88.
 5. BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
 6. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY, WV IN AUGUST OF 2015. LEASE OWNERS AND BOUNDARIES PROVIDED BY XTO ENERGY, INC.
 7. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

REFERENCES

1" = 500' 16" YELLOW POPLAR

20" YELLOW POPLAR

#11H (Top Hole)

HUGHES 11H

State Plane Coord.
West Virginia North
NAD27

Top Hole Loc
(N) 348567.868
(E) 1754096.245

TRI-COUNTY ENGINEERING, LLC

319 PAINTERSVILLE RD.
HUNKER, PA 15639

TCE@TRICOUNTYENG.COM
(724) 635-0210

PAGE 1 of 2

FILE # XTOOG57-11

DRAWING # XTOOG57-11-11H

SCALE: 1" = 1500'

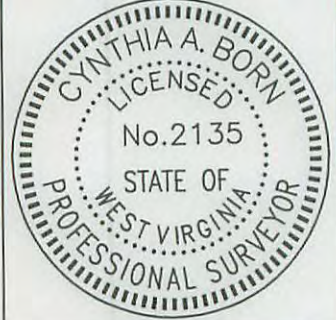
MINIMUM DEGREE OF ACCURACY: 1:2500

PROVEN SOURCE OF ELEVATION: DIRECT 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: Cynthia A. Born

R.P.E.: _____ L.L.S.: 2135



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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



DATE: 8/24/2015 PLACE SEAL HERE

OPERATOR'S WELL #: HUGHES 11H

API WELL #: 47 49 02361 H6A

STATE COUNTY PERMIT MOD

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

WATERSHED: BINGAMON CREEK WATERSHED ELEVATION: 1286' (PROPOSED GRADE)

COUNTY/DISTRICT: MARION - MANNINGTON QUADRANGLE SHINNSTON 7.5'

SURFACE OWNER FAYE C. ROCKWELL ACREAGE 107.50

OIL & GAS ROYALTY OWNER: FAYE C. ROCKWELL ACREAGE 01/23/2016

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: 7525'/14900'

WELL OPERATOR XTO ENERGY INC.
Address 810 HOUSTON STREET
City FORT WORTH State TX Zip Code 76102

DESIGNATED AGENT GARY BEALL
Address P.O. BOX 1008
City JANE LEW State WV Zip Code 26378

4952'
(Scale: 1" = 2000')

Latitude: 39°27'30"

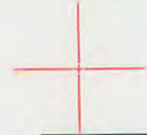
HUGHES 11H

State Plane Coord.
West Virginia North
NAD27

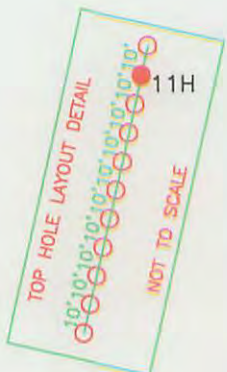
Top Hole Loc
(N) 348567.868
(E) 1754096.245

LEGEND	
LEASE BOUNDARY	— — — — —
SURFACE BOUNDARY	- - - - -
CREEK / STREAM	— — — — —
ROADS	— — — — —
PROPOSED LATERAL	- - - - -
500' LATERAL OFFSET	— — — — —
EXISTING GAS WELL	⊛
GROUNDWATER SOURCE / WATER SUPPLY	⊕

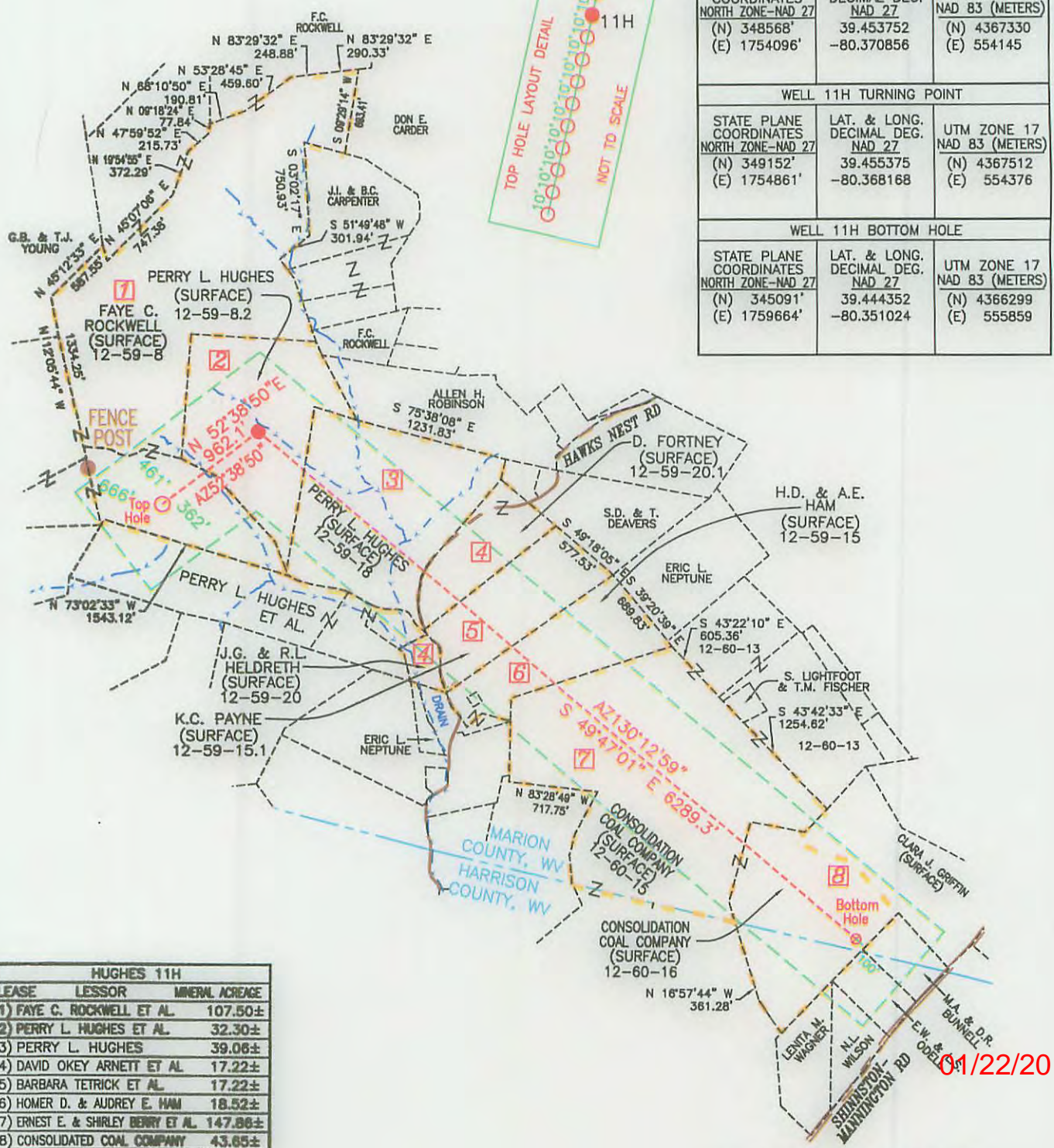
QUADRANGLE (BHL) SHINNSTON 7.5'
(+) DENOTES LOCATION OF WELL BOTTOM
HOLE ON UNITED STATES TOPOGRAPHIC MAPS



- NOTES ON SURVEY:**
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WELL 11H TOP HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 348568' (E) 1754096'	39.453752 -80.370856	(N) 4367330 (E) 554145
WELL 11H TURNING POINT		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 349152' (E) 1754861'	39.455375 -80.368168	(N) 4367512 (E) 554376
WELL 11H BOTTOM HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 345091' (E) 1759664'	39.444352 -80.351024	(N) 4366299 (E) 555859



HUGHES 11H		
LEASE	LESSOR	MINERAL ACREAGE
1)	FAYE C. ROCKWELL ET AL.	107.50±
2)	PERRY L. HUGHES ET AL.	32.30±
3)	PERRY L. HUGHES	39.06±
4)	DAVID OKEY ARNETT ET AL.	17.22±
5)	BARBARA TETRICK ET AL.	17.22±
6)	HOMER D. & AUDREY E. HAM	18.52±
7)	ERNEST E. & SHIRLEY BERRY ET AL.	147.86±
8)	CONSOLIDATED COAL COMPANY	43.65±

01/22/2016

4902361 MOD

Longitude: 80°20'00"

(Scale: 1" = 2000')

5076'