

5905'
(Scale: 1" = 2000')

Latitude: 39°30'00"

SWEARINGEN

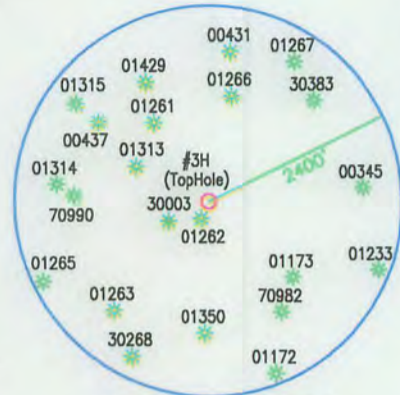
3H

State Plane Coord.
West Virginia North
NAD27
Top Hole Loc
(N) 352082.586
(E) 1758819.772

L1 = N 61°34'37" E 387.7'
AZ 61°34'37"

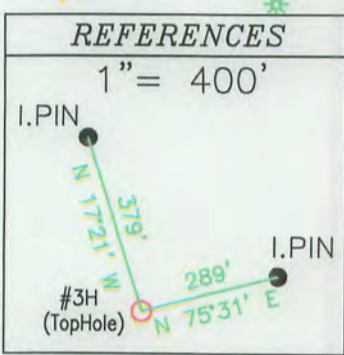
LEGEND	
LEASE BOUNDARY	
SURFACE BOUNDARY	
CREEK / STREAM	
ROADS	
PROPOSED LATERAL	
500' LATERAL OFFSET	
EXISTING GAS WELL	
GROUNDWATER SOURCE / WATER SUPPLY	

Longitude: 80°20'00"



SCALE: 1"=2400'

- NOTES ON SURVEY:**
- TWO 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 DIRECT GPS NAVD88.
 - BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
 - SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY WV. IN JUNE OF 2015. LEASE OWNERS AND BOUNDARIES PROVIDED BY XTO ENERGY, INC.
 - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.
 - DWELLING A-1 IS 517' FROM CENTER OF PAD.
 - DWELLING B-1 IS 552' FROM CENTER OF PAD.



TRI-COUNTY ENGINEERING, LLC

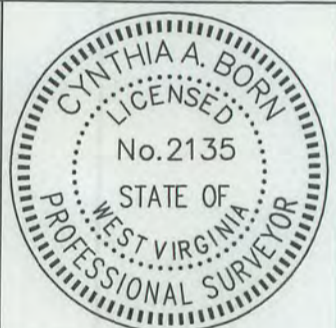
319 PAINTERSVILLE RD.
HUNKER, PA 15639
TCE@TRICOUNTYENG.COM
(724) 635-0210

PAGE 1 of 2

FILE # XTO-OG57
DRAWING # OG57-10-3H
SCALE: 1" = 1000'
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: 9/30/2015 PLACE SEAL HERE
OPERATOR'S WELL#: SWEARINGEN 3H
API WELL #: 47 49 02409H6A
STATE COUNTY PERMIT

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

WATERSHED: BINGAMON CREEK WATERSHED ELEVATION: 1376' (PROPOSED GRADE)
COUNTY/DISTRICT: MARION - MANNINGTON QUADRANGLE SHINNSTON 7.5'
SURFACE OWNER DON E CARDER ACREAGE 207.16
OIL & GAS ROYALTY OWNER: DON E CARDER ACREAGE 19706/2015

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: 7,600'/13,950'

WELL OPERATOR XTO ENERGY INC. DESIGNATED AGENT GARY BEALL
Address 810 HOUSTON STREET Address P.O. BOX 1008
City FORT WORTH State TX Zip Code 76102 City JANE LEW State WV Zip Code 26378

8211'
(Scale: 1" = 2000')

Latitude: 39°30'00"

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4. WELL ELEVATION ESTABLISHED BY DIRECT GPS NAVD88.
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SWEARINGEN

3H

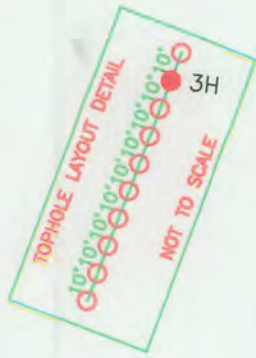
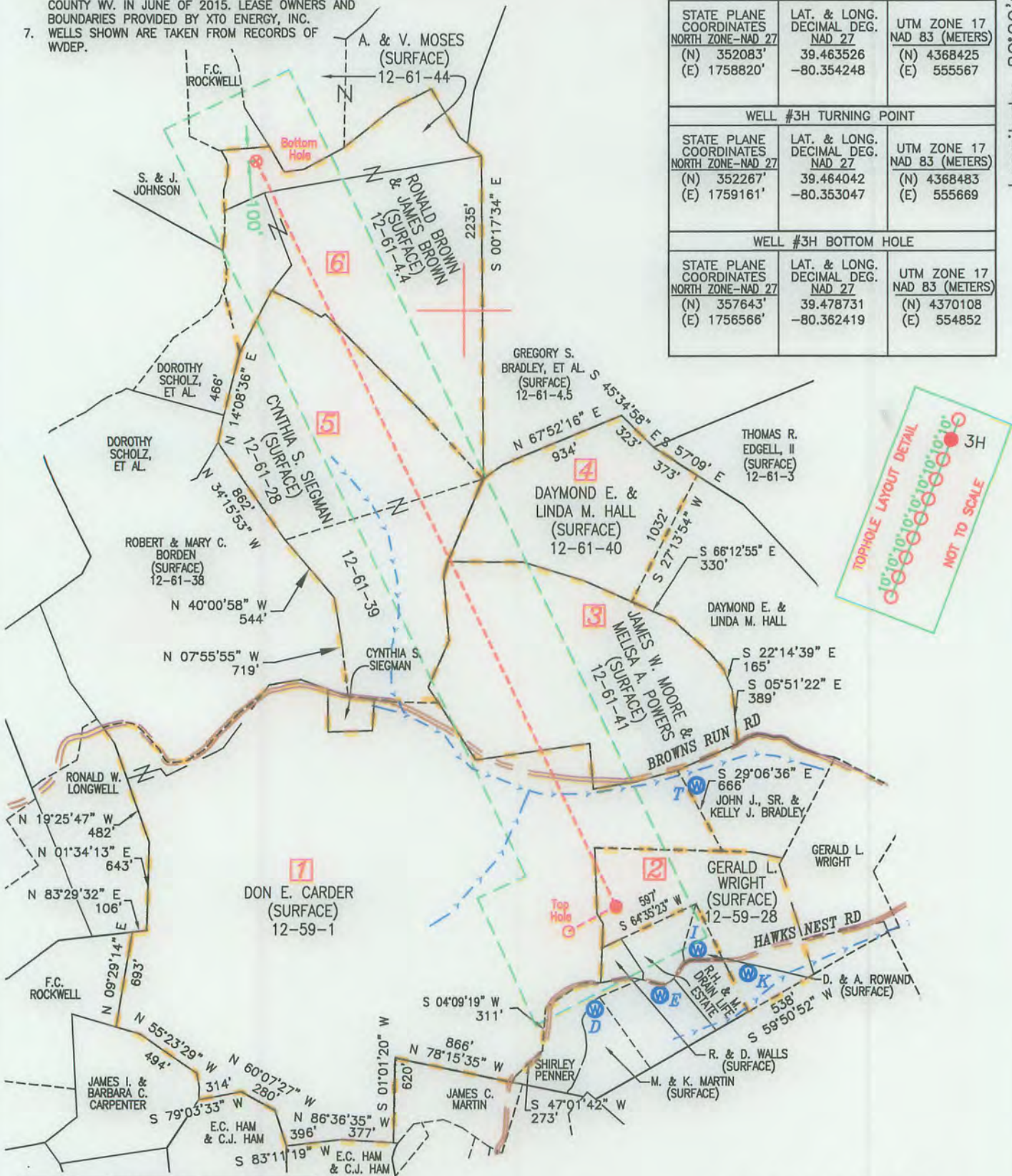
State Plane Coord.
West Virginia North
NAD27

Top Hole Loc
(N) 352082.586
(E) 1758819.772

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

WELL #3H TOP HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 352083' (E) 1758820'	39.463526 -80.354248	(N) 4368425 (E) 555567
WELL #3H TURNING POINT		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 352267' (E) 1759161'	39.464042 -80.353047	(N) 4368483 (E) 555669
WELL #3H BOTTOM HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 357643' (E) 1756566'	39.478731 -80.362419	(N) 4370108 (E) 554852

Longitude: 80°20'00"
7747'
(Scale: 1" = 2000')



SWEARINGEN 3H		
LEASE	LESSOR	MINERAL ACREAGE
1)	DON E. CARDER, ET AL.	98.73±
2)	SHERILYN J. GRIFIN, ET AL.	63.05±
3)	E.E. & C. GLOVER, ET AL.	56.59±
4)	BRENDA K. JOSEPH, ET AL.	38.86±
5)	THE ESTATE OF A.E. JOSEPH	72.75±
6)	J.F. & M.J. HESS	138.78±

49-02409 H6A

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

MAGNETIC NORTH 08°47' W
SPCS GRID NORTH W. VA. NORTH ZONE NAD 1983

XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

0' 1000'
SCALE: 1" = 1000'

TRI-COUNTY ENGINEERING, LLC
An ENERCON Company
319 Paintersville Road
Hunker, PA 15639
www.tricountyeng.com

Voice: (724) 635-0210

11/06/2015

SUPPLEMENTAL SURFACE & LESSOR EXHIBIT

SWEARINGEN 3H

DRAWN BY: MES
DATE: 9/30/15
SCALE: 1" = 1000'

MANNINGTON DISTRICT,
MARION COUNTY, WEST VIRGINIA

SHEET: 2 OF 2
FILE NO. OG57-10