

5902'
(1"=2000')

Latitude: 39°30'00"

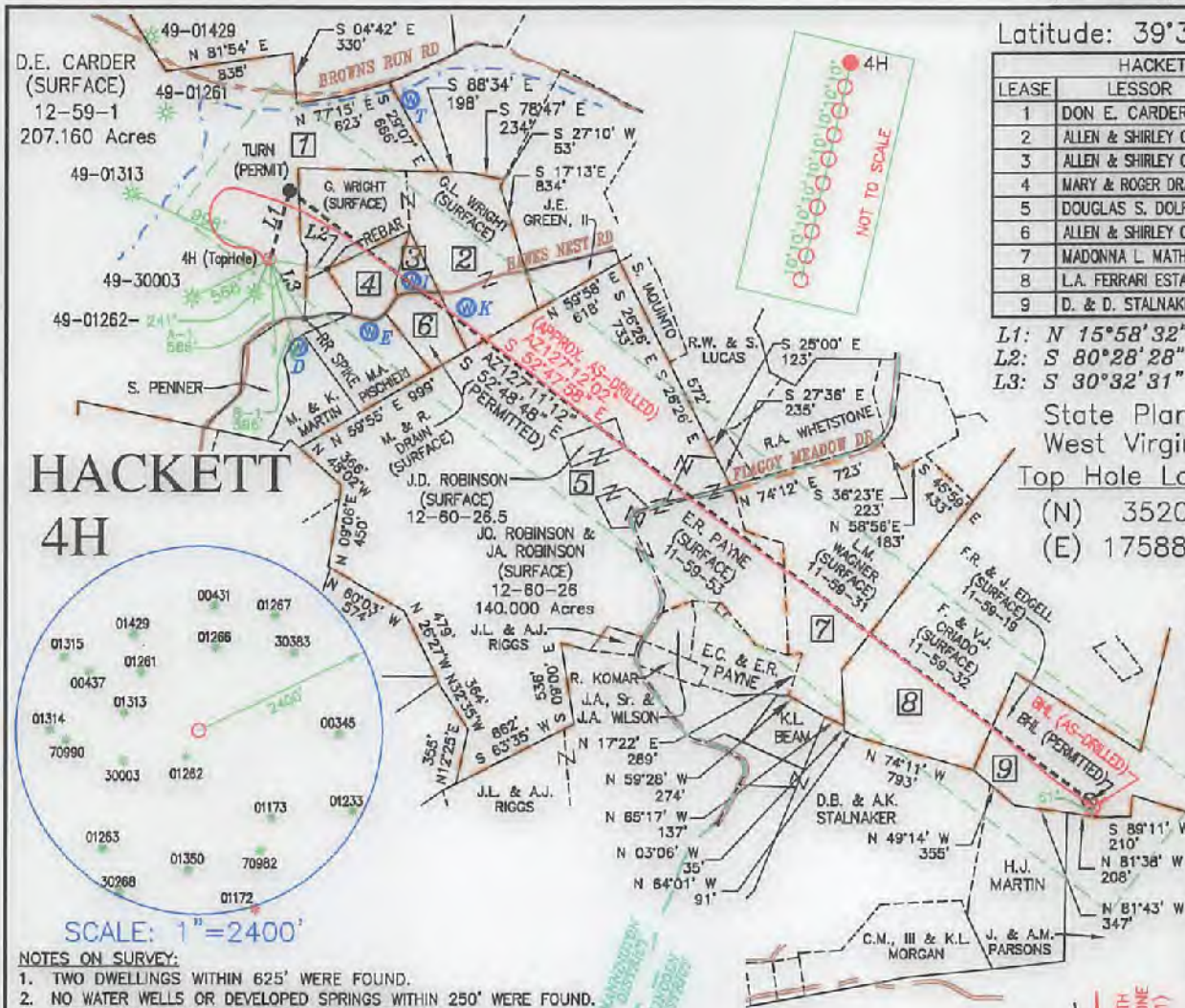
HACKETT 4H		
LEASE	LESSOR	MINERAL ACREAGE
1	DON E. CARDER et al.	111.000 ±
2	ALLEN & SHIRLEY COLE et al.	25.350 ±
3	ALLEN & SHIRLEY COLE et al.	1.440 ±
4	MARY & ROGER DRAIN et al.	3.820 ±
5	DOUGLAS S. DOLFIE et al.	140.000 ±
6	ALLEN & SHIRLEY COLE et al.	3.660 ±
7	MADONNA L. MATHENY et al.	26.460 ±
8	L.A. FERRARI ESTATE et al.	57.000 ±
9	D. & D. STALNAKER et al.	43.920 ±

L1: N 15°58'32" E 465.89'
L2: S 80°28'28" E 378.93'
L3: S 30°32'31" E 444.27'

State Plane Coord.
West Virginia North
Top Hole Loc (NAD27)
(N) 352092.029
(E) 1758823.375

Longitude: 80°20'00"

(1"=2000')



HACKETT 4H



SCALE: 1"=2400'

NOTES ON SURVEY:

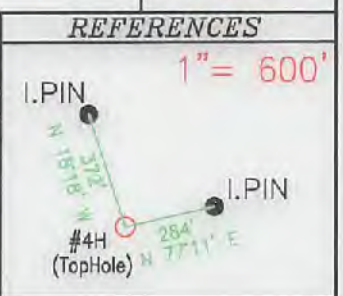
- TWO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID WV NORTH ZONE NAD '83.
- WELL ELEVATION ESTABLISHED BY DIRECT GPS NAVD83.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN JUNE OF 2015 AND INFORMATION PROVIDED BY XTO ENERGY INC. THIS DRAWING DOES NOT REPRESENT A FULL BOUNDARY SURVEY.
- 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.

LEGEND

LEASE BOUNDARY	---
SURFACE BOUNDARY	----
CREEK / STREAM	~~~~~
ROADS	=====
PERMITTED LATERAL	----
AS-DRILLED LATERAL	----
500' LATERAL OFFSET	----
EXISTING GAS WELL	☼
GROUNDWATER SOURCE / WATER SUPPLY	⊕

HACKETT 4H BOTTOM HOLE		
STATE PLANE COORD. NORTH ZONE-NAD 27	L&L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 - METERS
PERMITTED: (N) 348562 (E) 1764194	PERMITTED: 38.454000 -80.335097	PERMITTED: (N) 4367380 (E) 557222
AS-DRILLED: (N) 348520 (E) 1764217	AS-DRILLED: 39.453884 -80.335015	AS-DRILLED: (N) 4367367 (E) 557229

HACKETT 4H TOP HOLE	
STATE PLANE COORDINATES NORTH ZONE-NAD 27	
PERMITTED: (N) 352092 (E) 1758823	AS-DRILLED: (N) 352092 (E) 1758823
L&L DECIMAL NAD 27 PERMITTED: 38.463552 -80.354235	AS-DRILLED: 38.463552 -80.354235
UTM (NAD 83) ZONE 17 - METERS	
PERMITTED: (N) 4368428 (E) 555568	AS-DRILLED: (N) 4368428 (E) 555568

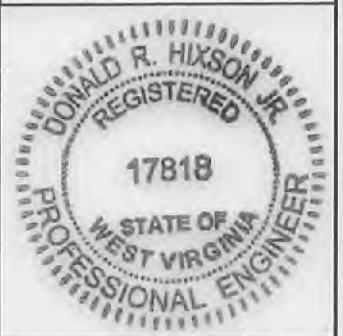


TRI-COUNTY ENGINEERING, LLC 319 PAINTERSVILLE RD. HUNKER, PA 15639 TCE@TRICOUNTYENG.COM (724) 635-0210

FILE # XTO-OG61
DRAWING # OG61-23-4H
SCALE: 1"=1200'
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: [Signature]
R.P.E.: 17818 L.L.S.:



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

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

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

WATERSHED: BINGAMON CREEK WATERSHED ELEVATION: 1372'
COUNTY/DISTRICT: MARION CO. / LINCOLN & MANNINGTON DIST. QUADRANGLE SHINNSTON 7.5'
SURFACE OWNER DON E CARDER ACREAGE 207.16
OIL & GAS ROYALTY OWNER: DON E CARDER ACREAGE 111.00

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

TARGET FORMATION MARCELLUS ACTUAL DEPTH: TVD: 7.638' / TMD: 14.410'

WELL OPERATOR XTO ENERGY INC. DESIGNATED AGENT GARY BEAL
Address 810 HOUSTON STREET City FORT WORTH State TX Zip Code 76102
City JANES VEW State WV Zip Code 26378



RECEIVED
Office of Oil and Gas

JAN 26 2017

09/15/2017

Environmental Protection Department