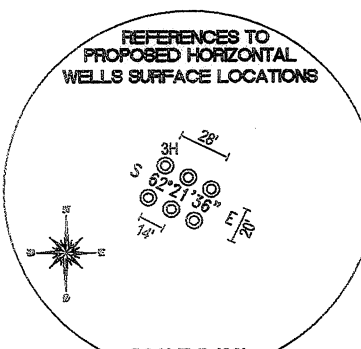
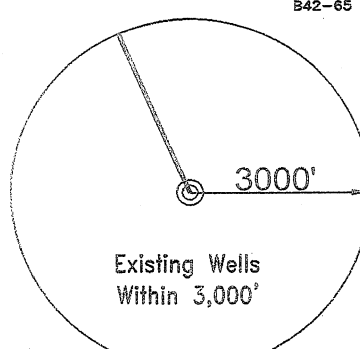
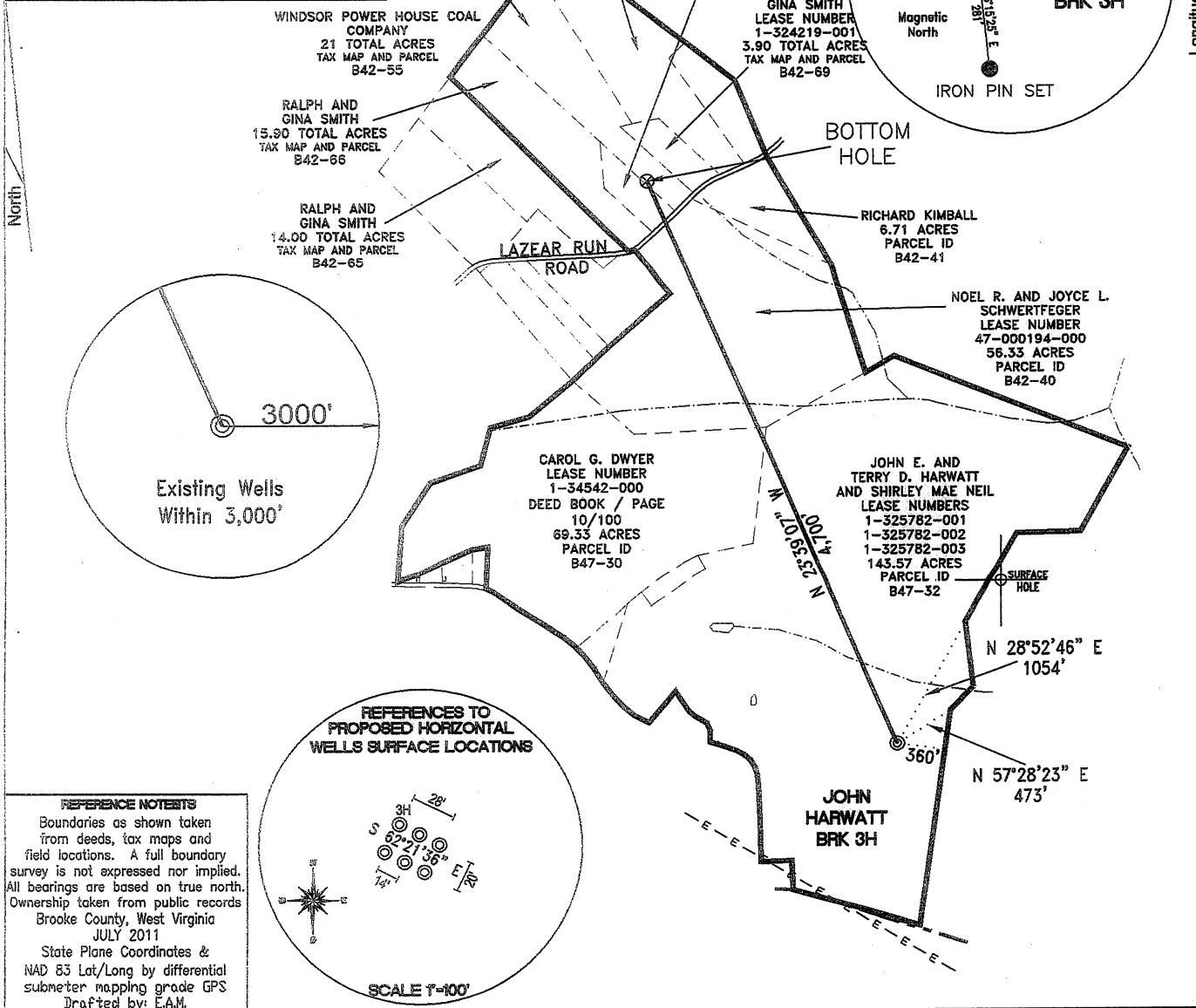


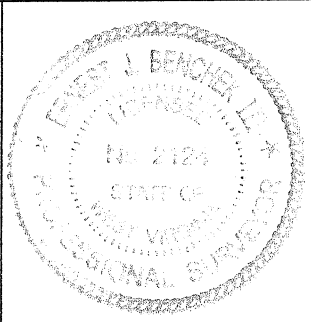
TOP HOLE (NAD 83) N) 613904.6 E) 1663213.8 LAT.) 40°10'49.2" LONG.) 80°35'33.3" DEC. LAT.) 40.180341 DEC. LONG.) 80.592594	BOTTOM HOLE (NAD 83) N) 618208.6 E) 1661328.8 LAT.) 40°11'31.5" LONG.) 80°35'58.3" DEC. LAT.) 40.192091 DEC. LONG.) 80.599528
TOP HOLE (NAD 27) N) 613867.6 E) 1694648.4 LAT.) 40°10'49.0" LONG.) 80°35'34.1" DEC. LAT.) 40.180269 DEC. LONG.) 80.592798	BOTTOM HOLE (NAD 27) N) 618171.6 E) 1692736.5 LAT.) 40°11'31.3" LONG.) 80°35'59.0" DEC. LAT.) 40.192020 DEC. LONG.) 80.599731



REFERENCE NOTES:
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Brooke County, West Virginia JULY 2011
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.H.

FILE #: CHE 085
DRAWING #: 1773
SCALE: 1"=1200'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
Signed:
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,130'

COUNTY/DISTRICT: BROOKE/BUFFALO QUADRANGLE: BETHANY WV.

SURFACE OWNER: JOHN E. AND TERRY D. HARWATT AND SHIRLEY MAE NEIL ACREAGE: 143.57 +/-
OIL & GAS ROYALTY OWNER: JOHN E. AND TERRY D. HARWATT AND SHIRLEY MAE NEIL ACREAGE: 289.03 +/-
LEASE NUMBERS:

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,975' TMD: 10,470'
WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT : ERIC B. GILLESPIE
ADDRESS: PO BOX 18496 ADDRESS: Po Box 6070
CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: AUGUST 24, 2011
OPERATOR'S WELL #: JOHN HARWATT BRK 3H
API WELL #: 47 09 00112H
STATE COUNTY PERMIT

9-00112H

