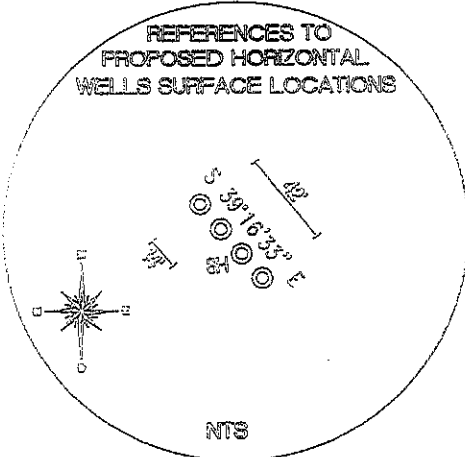
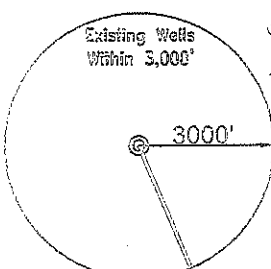
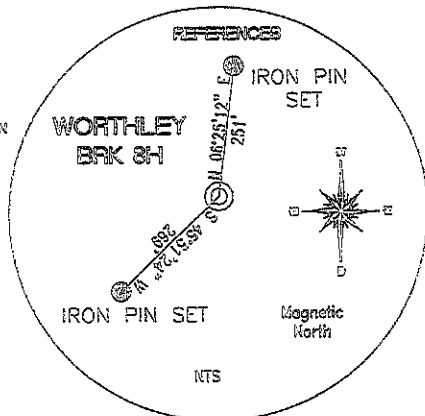


TOP HOLE (NAD 83) N) 626517.7 E) 1673856.9 LAT.) 40°12'55.1" LONG.) 80°33'18.1" DEC. LAT.) 40.215310 DEC. LONG.) 80.555036	BOTTOM HOLE (NAD 83) N) 620146.9 E) 1676497.4 LAT.) 40°11'52.5" LONG.) 80°32'43.1" DEC. LAT.) 40.197908 DEC. LONG.) 80.545317
TOP HOLE (NAD 27) N) 626480.5 E) 1705291.2 LAT.) 40°12'54.9" LONG.) 80°33'18.9" DEC. LAT.) 40.215239 DEC. LONG.) 80.555242	BOTTOM HOLE (NAD 27) N) 620109.8 E) 1707931.6 LAT.) 40°11'52.2" LONG.) 80°32'43.9" DEC. LAT.) 40.197837 DEC. LONG.) 80.545523

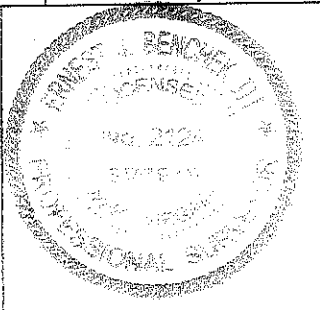


TH (UTM-NAD 83) N) 4451749.9 E) 537862.4
BOTTOM HOLE (UTM-NAD 83) N) 4449822.6 E) 538699.4

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 NOVEMBER 2011
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.M.

FILE #: CHE 098
 DRAWING #: 1904
 SCALE: 1" = 2000'
 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

DATE: FEBRUARY 7, 2012
 OPERATOR'S WELL #: WORTHLEY BRK 8H
 API WELL #: 47 09 00133 H6A
 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,160'
 COUNTY/DISTRICT: BROOKE/BUFFALO QUADRANGLE: BETHANY
 SURFACE OWNER: KIMBERLY CARMAN WORTHLEY ACREAGE: 103.4 +/-
 OIL & GAS ROYALTY OWNER: KIMBERLY CARMAN WORTHLEY ACREAGE: 1,121.66 +/-
 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: 6,010' TMD: 12,701'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
 ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25362

WELL WORTHLEY BRK 8H
QUAD: BETHANY

9-133

