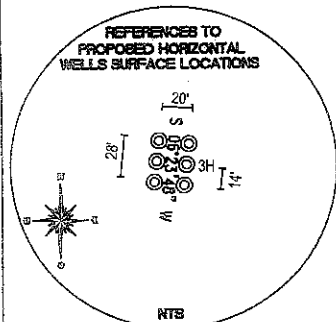
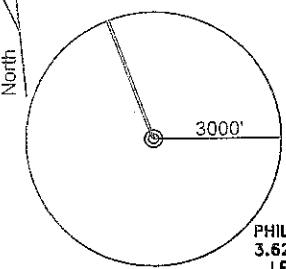
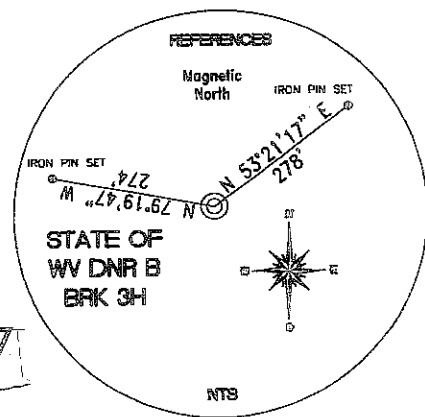
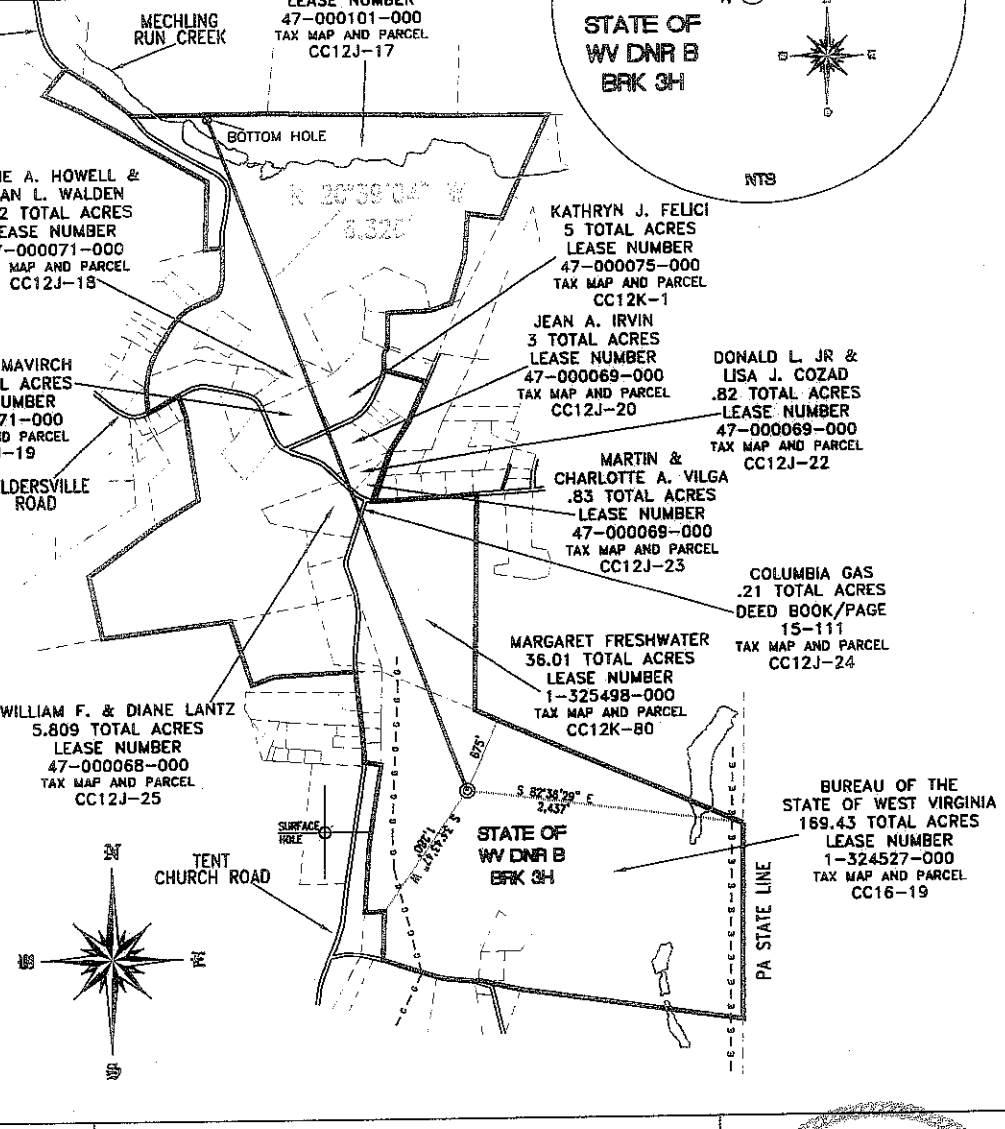


TOP HOLE (NAD 83) N) 672157.2 E) 1681997.1 LAT.) 40°20'27.0" LONG.) 80°31'39.9" DEC. LAT.) 40.340839 DEC. LONG.) 80.527760	BOTTOM HOLE (NAD 83) N) 678070.8 E) 1679768.3 LAT.) 40°21'25.2" LONG.) 80°32'09.6" DEC. LAT.) 40.357000 DEC. LONG.) 80.536000
TOP HOLE (NAD 27) N) 672120.0 E) 1713431.2 LAT.) 40°20'26.8" LONG.) 80°31'40.7" DEC. LAT.) 40.340769 DEC. LONG.) 80.527968	BOTTOM HOLE (NAD 27) N) 678033.7 E) 1711202.5 LAT.) 40°21'25.0" LONG.) 80°32'10.4" DEC. LAT.) 40.356930 DEC. LONG.) 80.536207

TH (UTM-NAD 83) N) 4465695.1 E) 540109.1
BOTTOM HOLE (UTM-NAD 83) N) 4467485.3 E) 539399.9

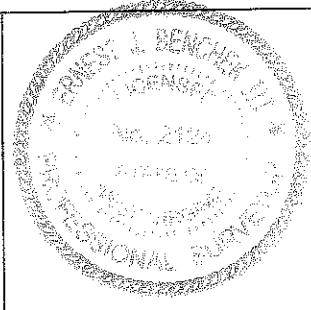


REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records: Brooke County, West Virginia DECEMBER 2011
State Plane Coordinates & NAD 83 Lat/Long by differential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



FILE #: CHE 091
DRAWING #: 1950
SCALE: 1" = 1600'
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 Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,180'
COUNTY/DISTRICT: BROOKE / CROSS CREEK QUADRANGLE: STEUBENVILLE EAST, WV.
SURFACE OWNER: STATE OF WEST VIRGINIA DNR ACREAGE: 169.43 +/-
OIL & GAS ROYALTY OWNER: STARVAGGI INDUSTRIES INC ACREAGE: 321.009 +/-
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: 5,630' TMD: 11,723'
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

DATE: FEBRUARY 10, 2012
OPERATOR'S WELL #: STATE OF WV DNR B BRK 3H
API WELL #: 47 09 00134 H2A
STATE COUNTY PERMIT

