

WELL NO. WV 511711  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 230,823  
E. 1,695,358

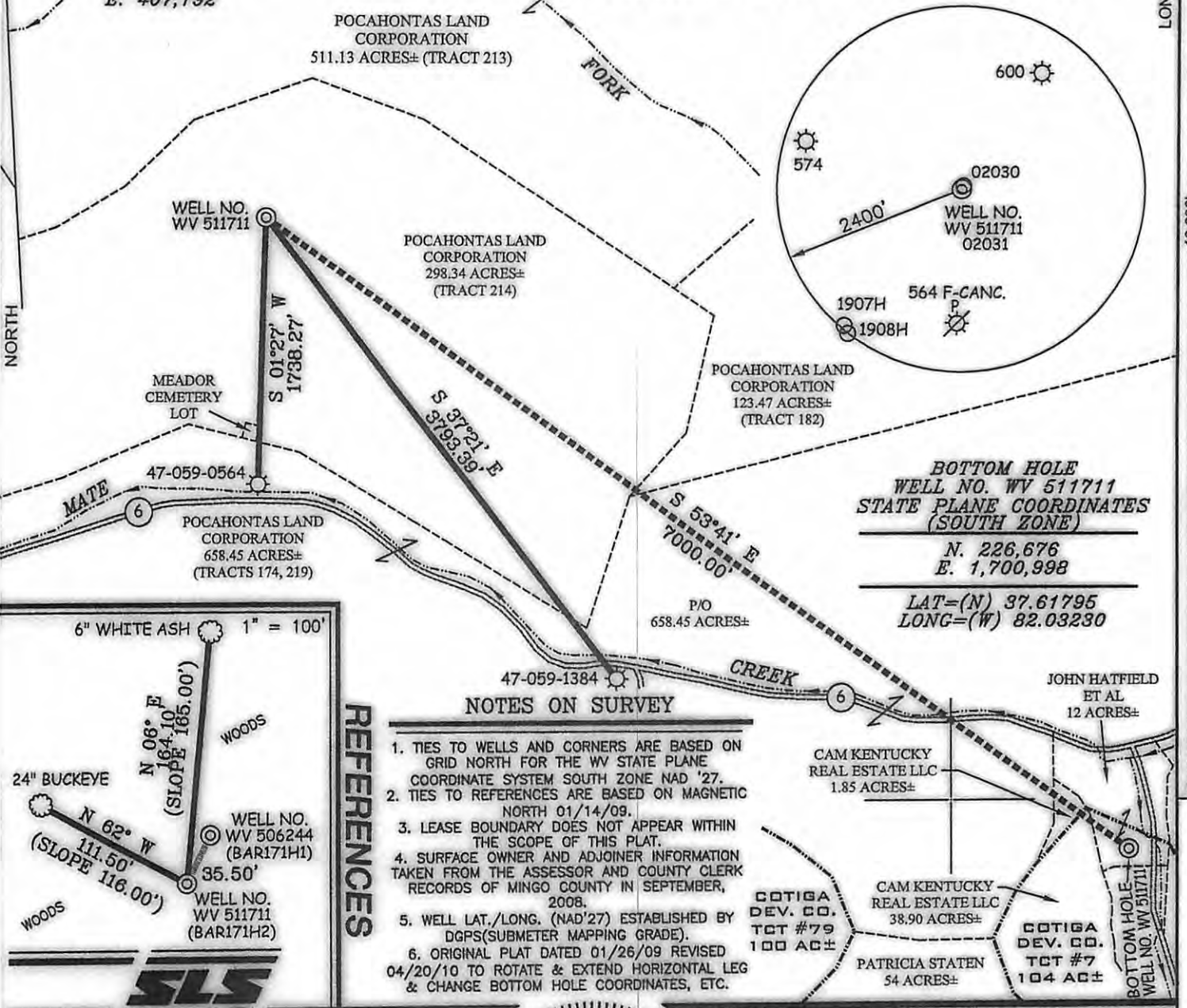
LAT=(N) 37.62916  
LONG=(W) 82.05193

UTM (NAD 83)  
N. 4,165,203  
E. 407,192

# CARNEGIE NATURAL GAS CO. LEASE (POCA-CARNEGIE) 38,753.36 ACRES± WELL NO. WV 511711

LONGITUDE 82°02'30"

13,630'

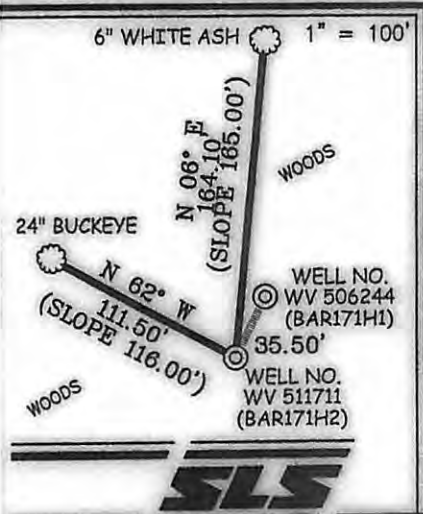


**BOTTOM HOLE**  
WELL NO. WV 511711  
STATE PLANE COORDINATES  
(SOUTH ZONE)  
N. 226,676  
E. 1,700,998  
LAT=(N) 37.61795  
LONG=(W) 82.03230

### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 01/14/09.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN SEPTEMBER, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 01/26/09 REVISED 04/20/10 TO ROTATE & EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.

### REFERENCES



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677  
*Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE APRIL 20, 20 10  
OPERATORS WELL NO. WV 511711  
API WELL NO. 47-059-02224H  
STATE COUNTY PERMIT

**STATE OF WEST VIRGINIA**  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 4672P511711R (266-62)  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,598' WATERSHED TRIBUTARY OF MATE CREEK  
DISTRICT MAGNOLIA COUNTY MINGO QUADRANGLE BARNABUS 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 298.34±  
ROYALTY OWNER PENN VIRGINIA OIL & GAS CORPORATION (38,753.36±) / COTIGA DEVELOPMENT COMPANY (104±)

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION LOWER HURON  
ESTIMATED DEPTH 5,100' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE  
CHARLESTON, WV 25302 CHARLESTON, WV 25302 **08/09/2013**

COUNTY NAME PERMIT