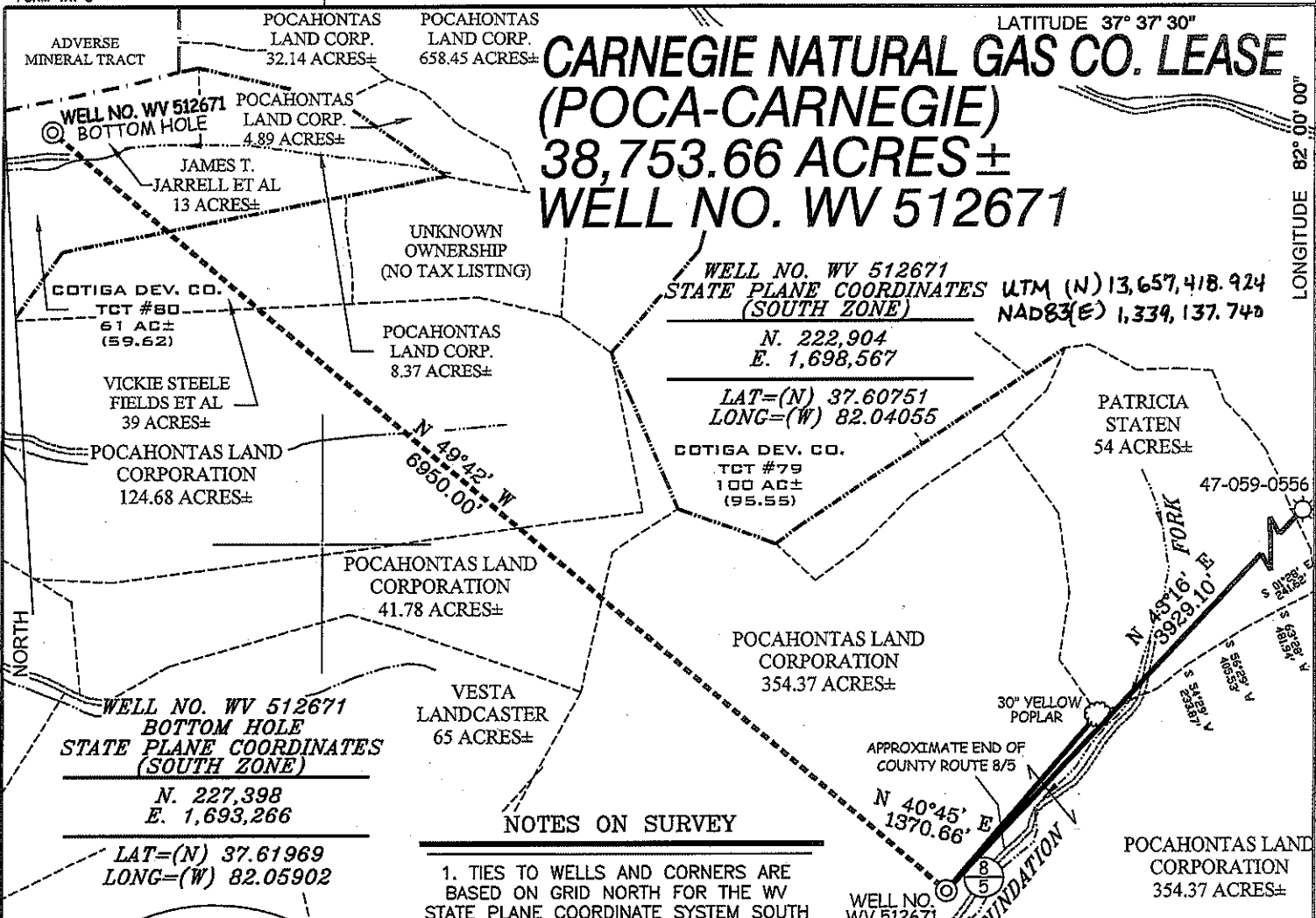


# CARNEGIE NATURAL GAS CO. LEASE (POCA-CARNEGIE) 38,753.66 ACRES± WELL NO. WV 512671



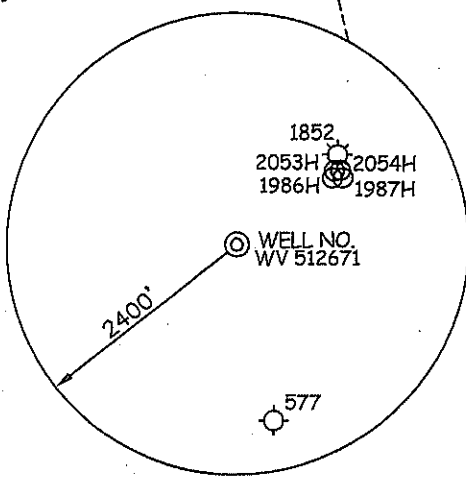
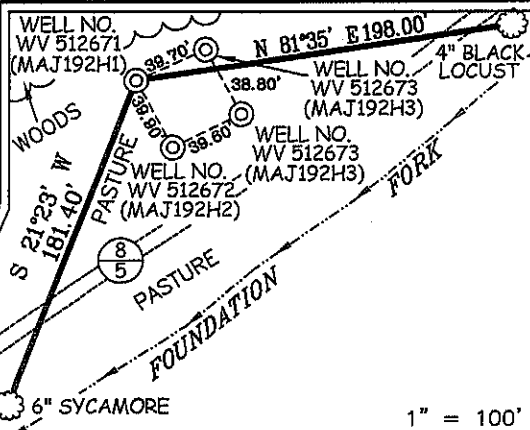
WELL NO. WV 512671  
BOTTOM HOLE  
STATE PLANE COORDINATES  
(SOUTH ZONE)  
N. 227,398  
E. 1,693,266  
LAT=(N) 37.61969  
LONG=(W) 82.05902

WELL NO. WV 512671  
STATE PLANE COORDINATES UTM (N) 13,657,418.924  
(SOUTH ZONE) NAD83(E) 1,339,137.740  
N. 222,904  
E. 1,698,567  
LAT=(N) 37.60751  
LONG=(W) 82.04055

### 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 11/19/09.
3. LEASE/TRACT BOUNDARIES TAKEN FROM POCAHONTAS LAND CORP. MAPPING SHEETS 4 AND 5.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 05/05/09 REVISED 02/24/10 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 FEBRUARY 24, 20 10  
OPERATORS WELL NO. WV 512671  
API WELL NO. 47-059-0214714  
STATE COUNTY PERMIT

## CANCELLED

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 4672P512671R (289-39)  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,285' WATERSHED FOUNDATION FORK OF BEECH CREEK  
DISTRICT MAGNOLIA COUNTY MINGO QUADRANGLE MAJESTIC 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 354.37±  
ROYALTY OWNER PENN VIRGINIA OIL & GAS (38,753.66) & COTIGA DEVELOPMENT COMPANY (61 Ac.)

PROPOSED WORK: LEASE NO. 717459  
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 4,850' (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 **05/18/2012**

COUNTY NAME PERMIT