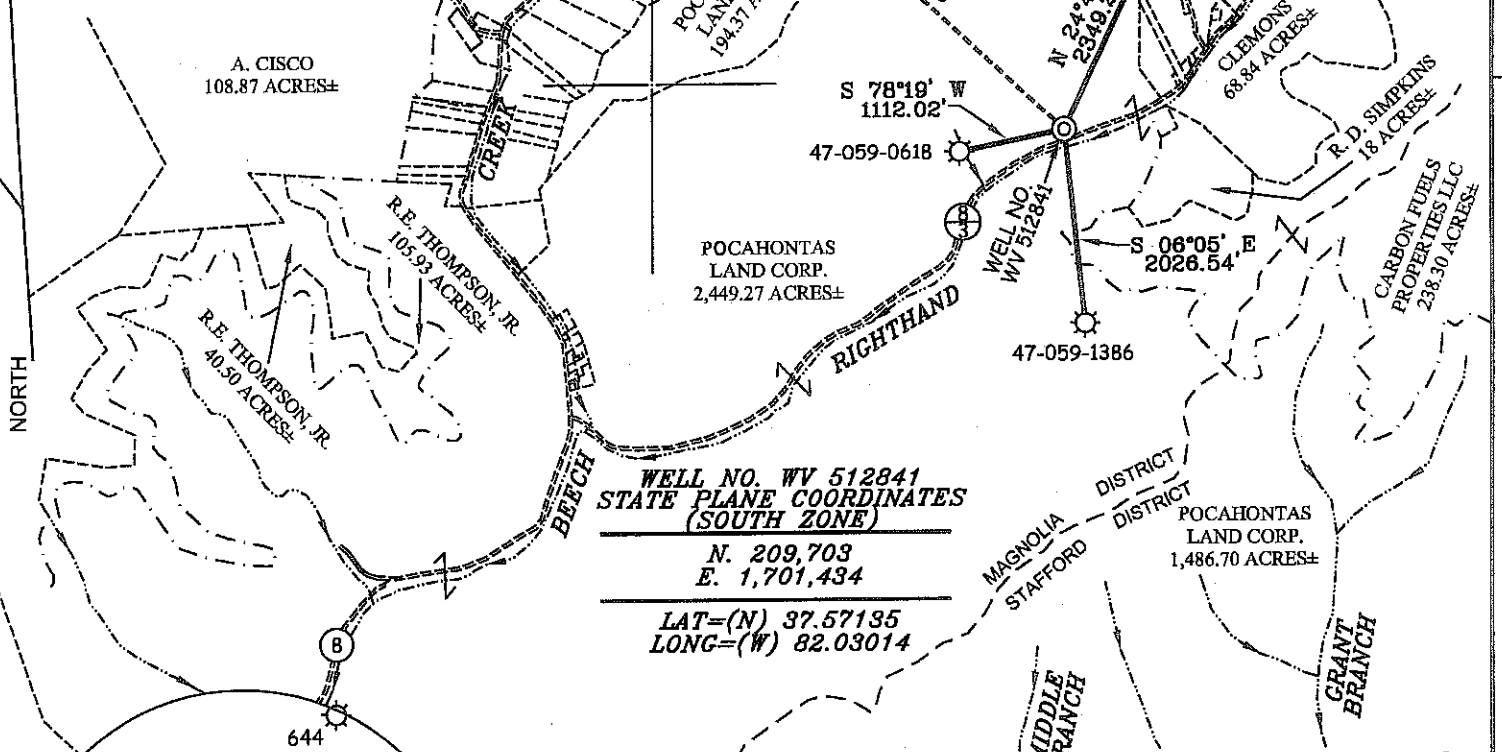


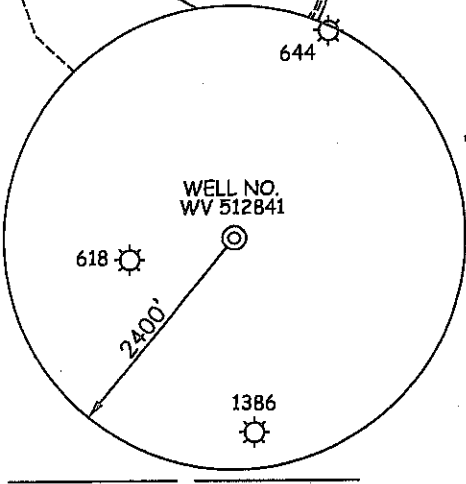
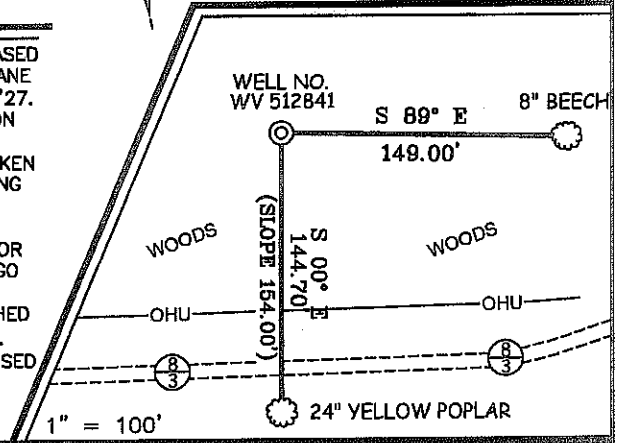
CARNEGIE NATURAL GAS COMPANY LEASE (POCA-CARNEGIE) 38,753.36 ACRES ± WELL NO. WV 512841



NOTES ON SURVEY

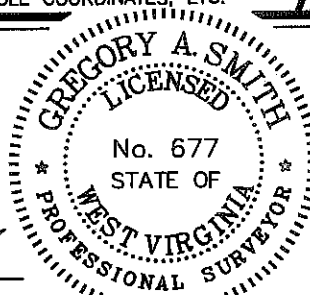
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 10/19/09.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM POCAHONTAS LAND CORP. MAPPING (SHEETS 11, 12, 13 & 17)
4. SURFACE OWNER AND ADJOINER 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 11/20/09 REVISED 12/14/09 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 DECEMBER 14, 20 09
 OPERATORS WELL NO. WV 512841
 API WELL NO. 47-059-02140H
 STATE WV COUNTY MINGO PERMIT CANCELLED

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 4672P512841R (289-16)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2000'

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 1,044' WATERSHED RIGHT FORK OF BEECH CREEK
 DISTRICT MAGNOLIA COUNTY MINGO QUADRANGLE MAJESTIC 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 2,449.27±
 ROYALTY OWNER PENN VIRGINIA OIL & GAS CORPORATION LEASE ACREAGE 38,753.36±
 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 4,680' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302 ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302 **04/06/2012**

COUNTY NAME PERMIT