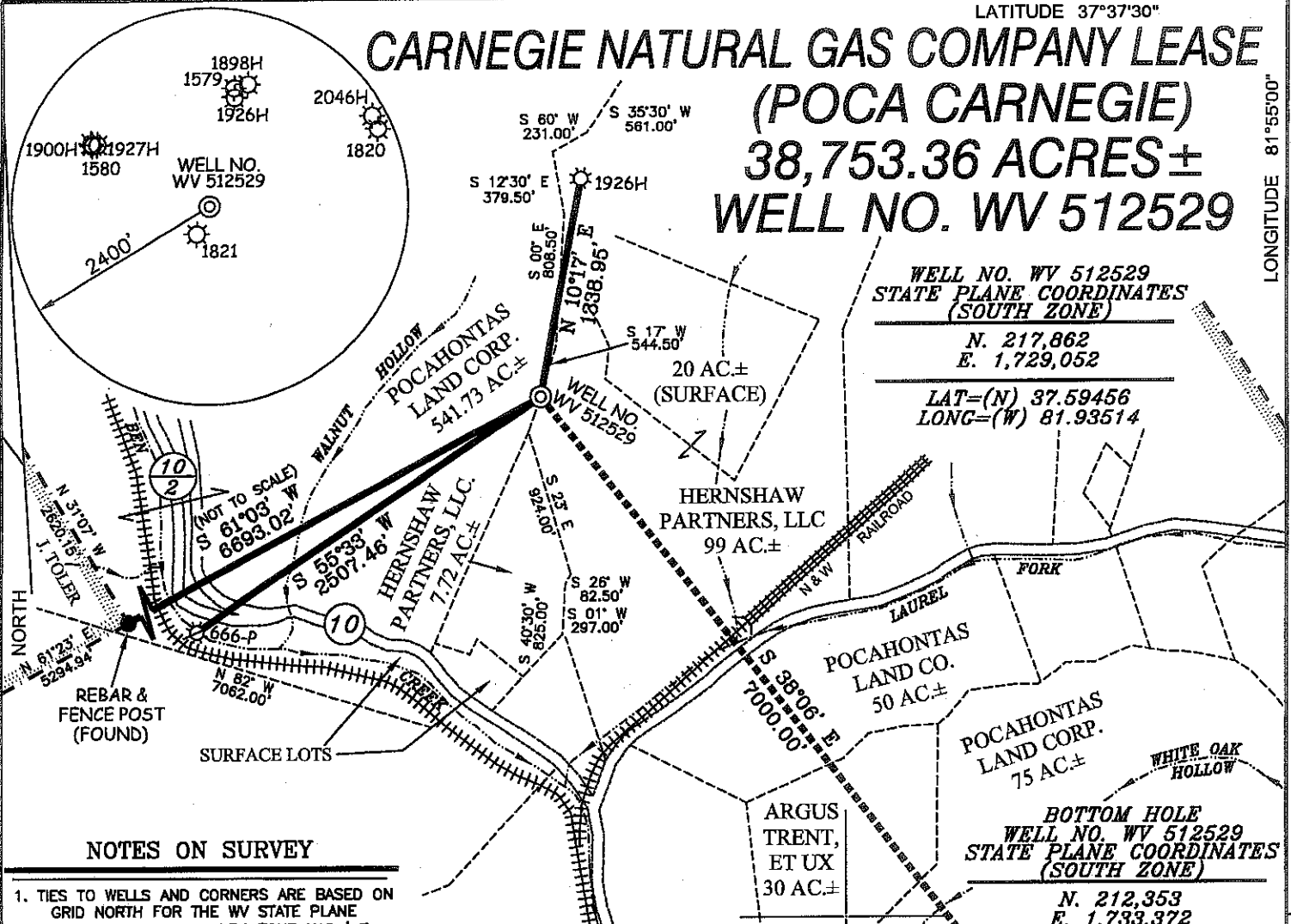


CARNEGIE NATURAL GAS COMPANY LEASE (POCA CARNEGIE) 38,753.36 ACRES± WELL NO. WV 512529

LONGITUDE 81°55'00"

11,100'



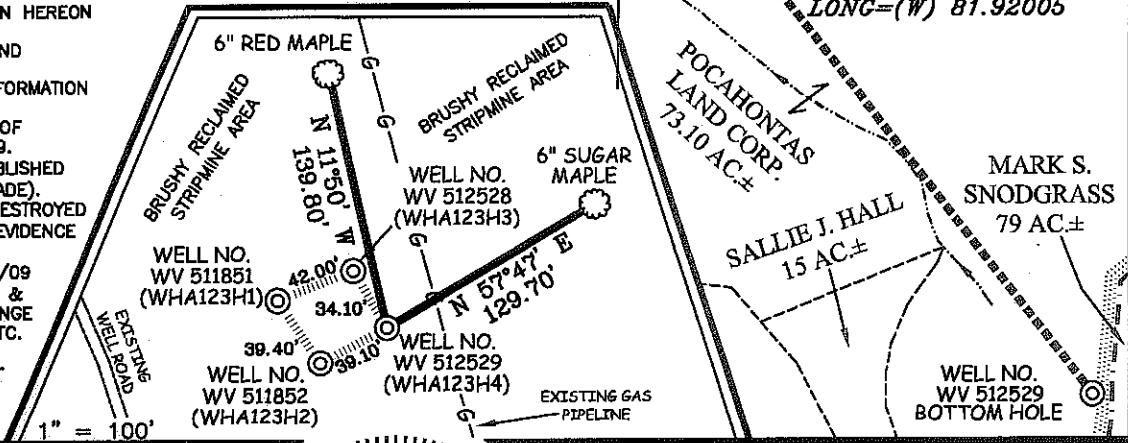
WELL NO. WV 512529
STATE PLANE COORDINATES
(SOUTH ZONE)
N. 217,862
E. 1,729,052
LAT=(N) 37.59456
LONG=(W) 81.93514

BOTTOM HOLE
WELL NO. WV 512529
STATE PLANE COORDINATES
(SOUTH ZONE)
N. 212,353
E. 1,733,372
LAT=(N) 37.57955
LONG=(W) 81.92005

NOTES ON SURVEY

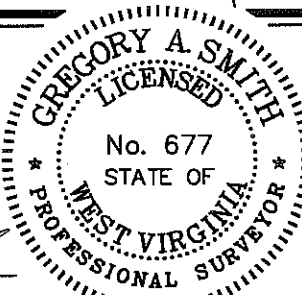
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05/20/09.
3. LEASE AND TRACT BOUNDARY SHOWN HEREON TAKEN FROM POCAHONTAS LAND CORPORATION MAPPING AND DEED BOOK G AT PAGE 432.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN APRIL, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. SURFACE MINING ACTIVITIES HAVE DESTROYED SURFACE BOUNDARY CORNERS/LINE EVIDENCE NEAR PROPOSED WELL.
7. ORIGINAL PLAT DATED 06/22/09 REVISED 12/22/09 TO EXTEND & ROTATE 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 22, 20 09
OPERATORS WELL NO. WV 512529
API WELL NO. 47-059-02121H
STATE CANCELLED COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 4672P512529R (276-63)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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 1,624' WATERSHED LAUREL FORK OF BEN CREEK
DISTRICT STAFFORD COUNTY MINGO QUADRANGLE WHARNCLIFFE 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION & HERNSHAW PARTNERS, LLC ACREAGE 541.73± & 99±
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 / SILTSTONE
ESTIMATED DEPTH 5,080' (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

02/10/2012

COUNTY NAME PERMIT