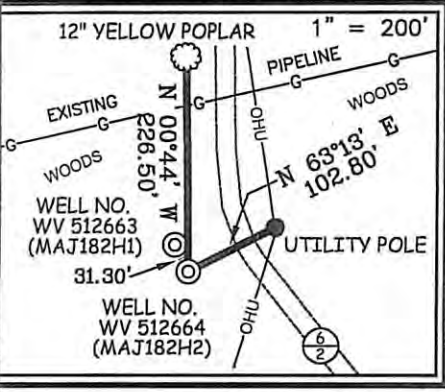


NOTES ON SURVEY

- TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
- TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03/12/10.
- LEASE BOUNDARY SHOWN HEREON TAKEN FROM POCAHONTAS LAND CORPORATION MAPPING, SHEET 4.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MINGO COUNTY IN JULY, 2010.
- WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



BOTTOM HOLE
 WELL NO. WV 512664
 STATE PLANE COORDINATES SOUTH ZONE (NAD'27)
 N. 222,538
 E. 1,692,598

LAT=(N) 37.60632
 LONG=(W) 82.06114

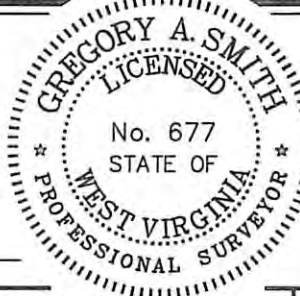
UTM (NAD'83)
 N. 4,162,678
 E. 406,351

"A"- W. HATFIELD 10 AC.±
 "B"- J. B. HATFIELD 15 AC.±
 "C"- S. BLACKBURN 50 AC.±
 "D"- S. BLACKBURN 50 AC.±
 "E"- V. LANCASTER 39 AC.±
 "F"- POCAHONTAS LAND CORP. 799.52 AC.±



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 AUGUST 05, 20 10
 OPERATORS WELL NO. WV 512664
 API WELL NO. 47-059-0702
 STATE COUNTY PERMIT
 CANCELLED

MINIMUM DEGREE OF ACCURACY 1/2500
 FILE NO. 4672P512664 (299-05)
 SCALE 1" = 1000'
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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

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

LOCATION:
 ELEVATION 1,122' WATERSHED DOUBLE CAMP FORK OF MATE CREEK
 DISTRICT MAGNOLIA COUNTY MINGO QUADRANGLE MAJESTIC 7.5'

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 352.24±
 ROYALTY OWNER PENN VIRGINIA OIL & GAS CORPORATION ACREAGE 38,753.36±
 PROPOSED WORK: LEASE NO. 717459

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 4,570' (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

11/16/2012