

W.M. RITTER LUMBER CO. LEASE 65,000 ACRES± WELL NO. WV 511618



HEARTWOOD FORESTLAND FUND
1366.42 ACRES±

WELL NO. WV 511618

MICHAEL COOK
0.30 ACRES±

WELL NO. WV 511618
STATE PLANE COORDINATES
SOUTH ZONE (NAD '27)

N. 227,453
E. 1,820,393

LAT=(N) 37.62300
LONG=(W) 81.62012

UTM (NAD'83)
N. 4,164,181
E. 445,292

BOTTOM HOLE
WELL NO. WV 511618
STATE PLANE COORDINATES
SOUTH ZONE (NAD '27)

N. 221,980
E. 1,824,758

LAT=(N) 37.60805
LONG=(W) 81.60493

UTM (NAD'83)
N. 4,162,513
E. 446,622

LARRY & MARSHA F. DAY
0.39 ACRES±

LARRY & MARSHA F. DAY
0.33 ACRES±

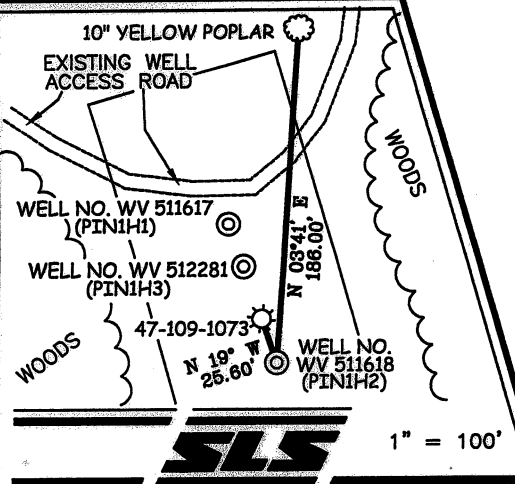
NORTH

HEARTWOOD FORESTLAND FUND
1366.42 ACRES±

HEARTWOOD FORESTLAND FUND
383.46 ACRES±

HEARTWOOD FORESTLAND FUND
2607.07 ACRES±

REFERENCES



EXISTING WELL 47-109-1073
STATE PLANE COORDINATES
SOUTH ZONE (NAD '27)

N. 227,476
E. 1,820,382

LAT=(N) 37.62307
LONG=(W) 81.62016

NOTES ON SURVEY

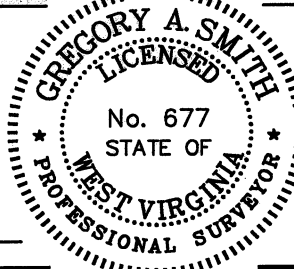
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 06/04/09.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WYOMING COUNTY IN MAY, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. THIS PLAT WAS REVISED 08/07/09 TO CHANGE TARGET FORMATION AND ESTIMATED DEPTH. REVISED 06/30/10 TO EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.

JEFFERY S. CLINE ET AL
1.19 ACRES±

BOTTOM HOLE
WELL NO. WV 511618

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 JUNE 30, 20 10
OPERATORS WELL NO. WV 511618
API WELL NO. 47-109-03106H Revised
NO. CANCELLED COUNTY PERMIT REVISED

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3999P511618R2 (276-74)
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 1,820' WATERSHED SHANNON MILL CREEK
DISTRICT BAILEYSVILLE COUNTY WYOMING QUADRANGLE PINEVILLE 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 1,366.42±
ROYALTY OWNER PLUM CREEK TIMBERLANDS LEASE ACREAGE 65,000±
PROPOSED WORK: LEASE NO. 004157
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 ANGOLA
ESTIMATED DEPTH 6,190' (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