

ISLAND CREEK COAL COMPANY LEASE

60,000 ACRES±

WELL NO. WV 512807

- A- ROXIE AVIS FERRELL HEIRS (42.38 AC.±)
- B- RODNEY E. SHORT, JR. ET AL (20 AC.±)
- C- RODNEY E. SHORT, JR. ET AL (4 AC.±)
- D- LUCILLE BURTON AVIS (115.58 AC.±)

BARBARA BRYANT
0.68 ACRES±

HEARTWOOD
FORESTLAND FUND
24,588.40 ACRES±

ROXIE AVIS
FERRELL
HEIRS
86.38 ACRES±

HEARTWOOD
FORESTLAND FUND
24,588.40 ACRES±

ELLIS
BRANCH

Cancelled

BOTTOM HOLE
WELL NO. WV 512807
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

N. 314,309
E. 1,686,220

LAT=(N) 37.85814
LONG=(W) 82.08687

UTM (NAD 83)
N. 4,190,643
E. 404,404

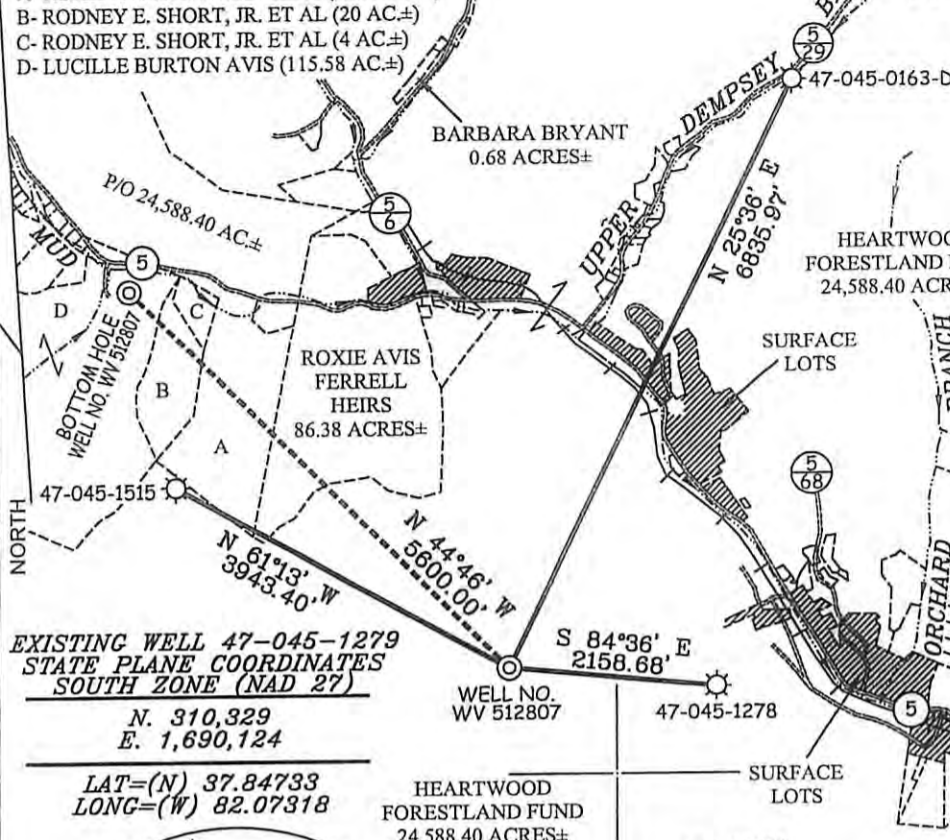
WELL NO. WV 512807
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

N. 310,333
E. 1,690,163

LAT=(N) 37.84735
LONG=(W) 82.07305

UTM (NAD 83)
N. 4,189,431
E. 405,606

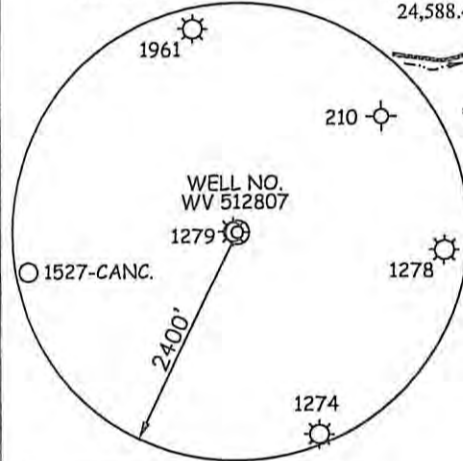
REFERENCES



EXISTING WELL 47-045-1279
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

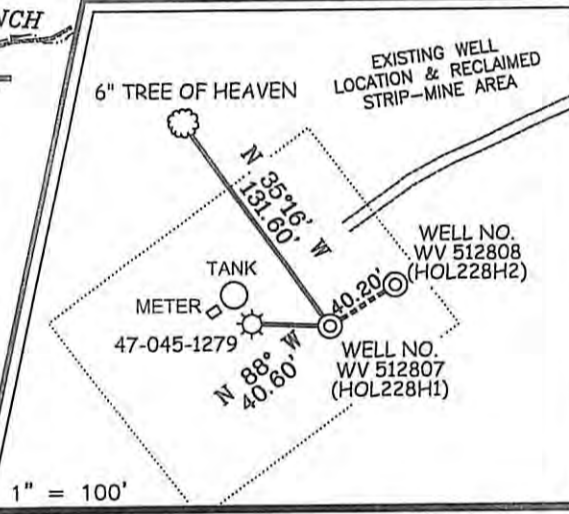
N. 310,329
E. 1,690,124

LAT=(N) 37.84733
LONG=(W) 82.07318



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 11/18/09.
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 LOGAN COUNTY IN JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 12/04/09 REVISED 05/21/10 TO EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.



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 MAY 21, 20 10

OPERATORS WELL NO. WV 512807

API WELL NO. 47-045-023610H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3890P512807R (289-38)
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 971' WATERSHED TRIBUTARY OF MUD FORK OF COPPERAS MINE FORK OF ISLAND CREEK

DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 24,588.40±

ROYALTY OWNER ISLAND CREEK CORPORATION LEASE ACREAGE 60,000±

PROPOSED WORK: LEASE NO. 080662

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 3,840' (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

01/04/2013