

COLE & CRANE REAL ESTATE TRUST  
19,801.944 ACRES±

# COLE & CRANE REAL ESTATE TRUST LEASE

## 13,292.15 ACRES±

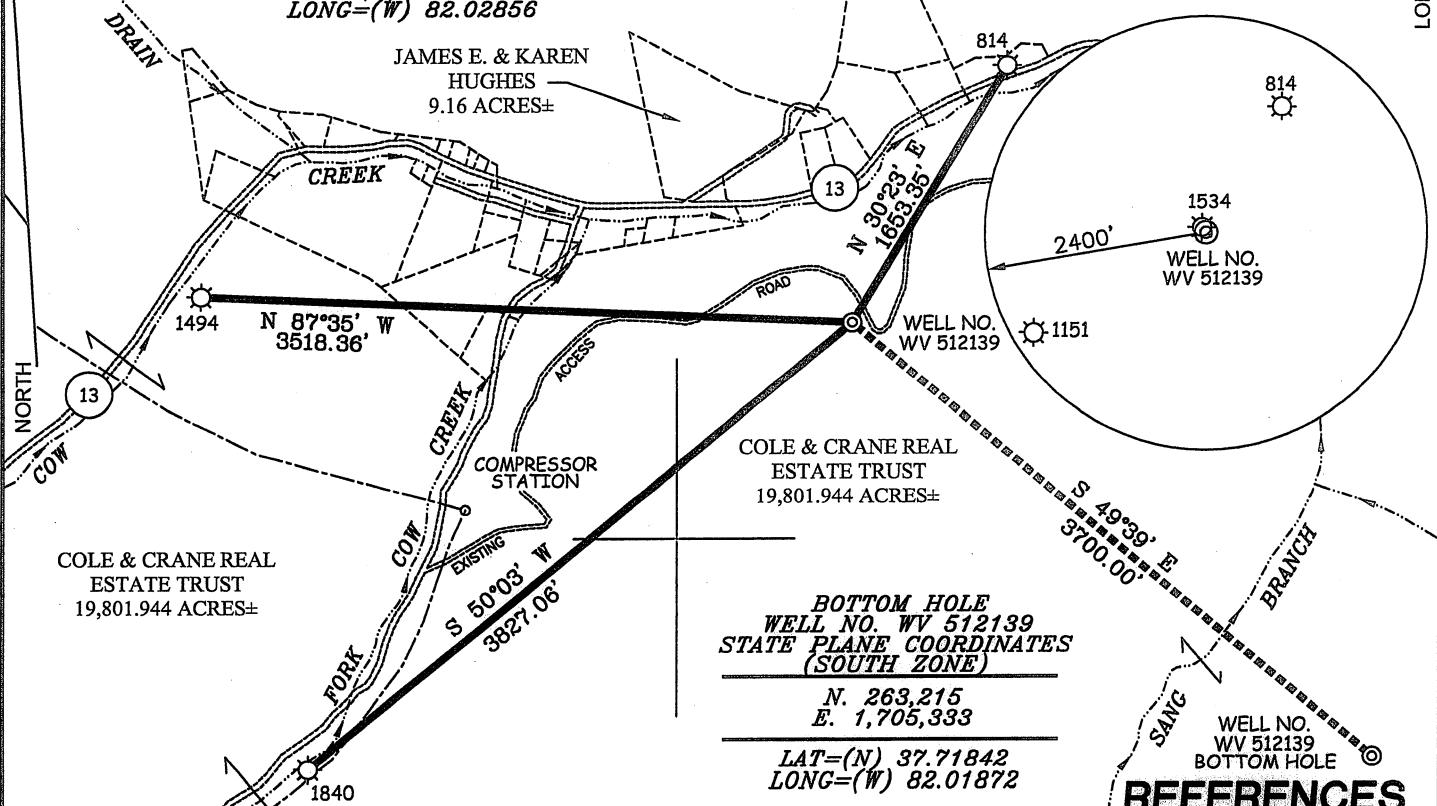
### WELL NO. WV 512139

WELL NO. WV 512139  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 265,611  
E. 1,702,513

LAT=(N) 37.72491  
LONG=(W) 82.02856

JAMES E. & KAREN HUGHES  
9.16 ACRES±



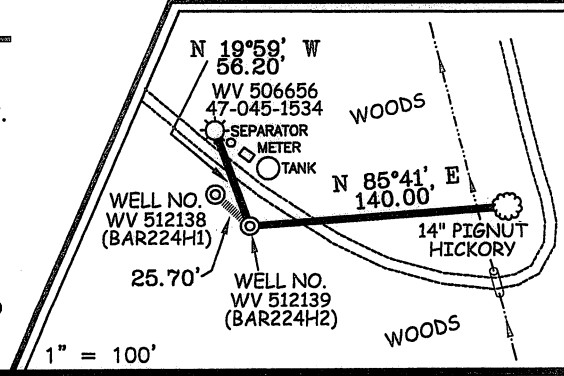
COLE & CRANE REAL ESTATE TRUST  
19,801.944 ACRES±

BOTTOM HOLE  
WELL NO. WV 512139  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 263,215  
E. 1,705,333

LAT=(N) 37.71842  
LONG=(W) 82.01872

### REFERENCES



### NOTES ON SURVEY

1. TIES TO WELLS 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 08/03/09.
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 JUNE, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

EXISTING WELL 47-045-1534  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 265,658  
E. 1,702,485

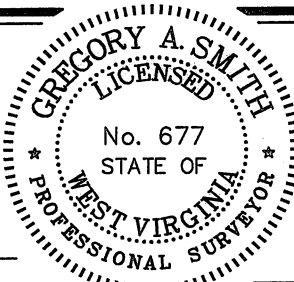
LAT=(N) 37.72504  
LONG=(W) 82.02866



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 26, 20 09

OPERATORS WELL NO. WV 512139

API WELL NO. 47-045-02314H  
STATE COUNTY PERMIT  
**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3796P512139 (283-47)  
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 1,212' WATERSHED COW CREEK

DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE BARNABUS 7.5'

SURFACE OWNER COLE & CRANE REAL ESTATE TRUST ACREAGE 19,801.944±

ROYALTY OWNER COLE & CRANE REAL ESTATE TRUST LEASE ACREAGE 13,292.15±

PROPOSED WORK: LEASE NO. 80574

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 4,720' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302

COUNTY NAME

PERMIT