

# COLE & CRANE REAL ESTATE TRUST LEASES

## 13,292.15 AC. ± & 12,096.64 AC. ±

### WELL NO. WV 512131

LOGAN COUNTY PUBLIC SERVICE  
0.929 ACRES±

WELL NO. WV 512131  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 263,158  
E. 1,699,623

LAT=(N) 37.71809  
LONG=(W) 82.03846

COLE & CRANE REAL ESTATE TRUST  
19,801.944 ACRES±

LEASE # 080574

UTM-NAD83  
N 4175055.30  
E 408477.09

EXISTING WELL 47-045-1840  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 263,153  
E. 1,699,579

LAT=(N) 37.71808  
LONG=(W) 82.03861

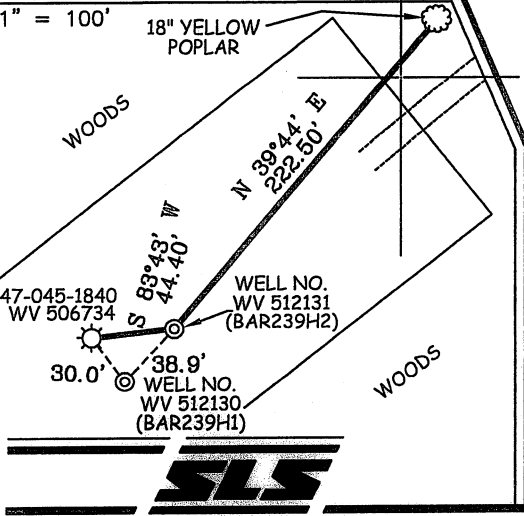
#### NOTES ON SURVEY

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 06/29/09.
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).
6. ORIGINAL PLAT DATED 07/23/09 REVISED 03/11/10 TO ROTATE & EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC. REVISED 4/16/10 TO ADD INTERNAL LEASE BOUNDARY.

#### REFERENCES

COLE & CRANE REAL ESTATE TRUST  
19,801.944 ACRES±

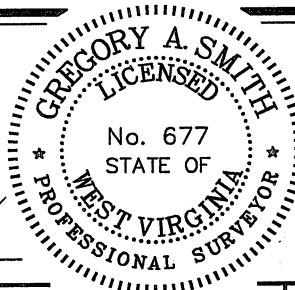
WELL NO. WV 512131  
BOTTOM HOLE



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 APRIL 16, 20 10

OPERATORS WELL NO. WV 512131

API WELL NO. 47-045-02315H  
STATE COUNTY PERMIT

**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3796P512131R2 (283-11)  
 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 1,158' WATERSHED LEFT FORK OF 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± / 12,096.64±

PROPOSED WORK: LEASE NO. 080574 / 080565

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 4,660' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302

COUNTY NAME PERMIT