

ISLAND CREEK COAL CO. LEASE 60.000 AC.±  
N 74°32' E 6467.54'  
APPROXIMATE LEASE BOUNDARY

# COLE & CRANE REAL ESTATE TRUST LEASE

## 13,292.15 ACRES±

### WELL NO. WV 512386

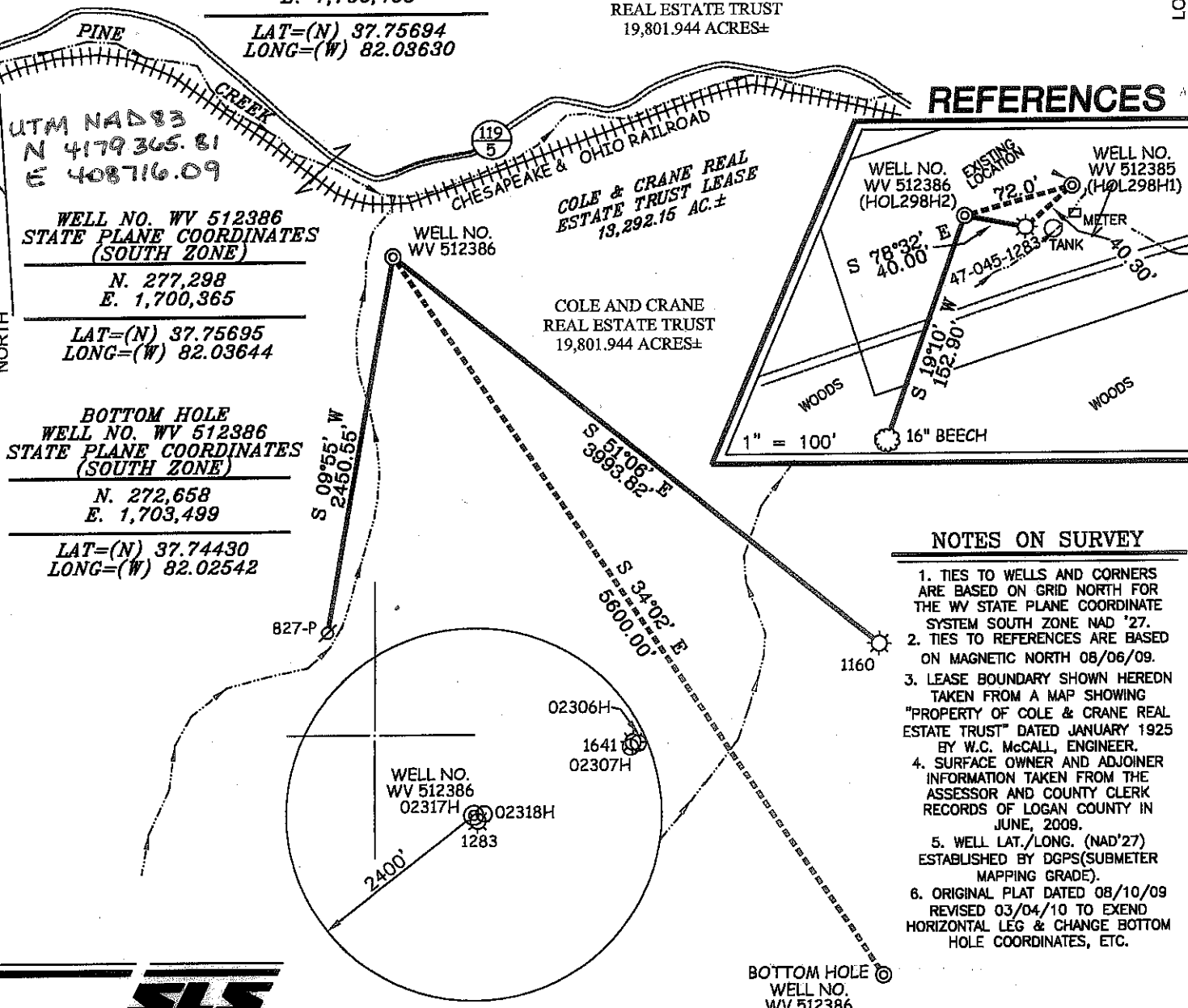
EXISTING WELL  
A.P.I. #47-045-1283  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 277,296  
E. 1,700,405

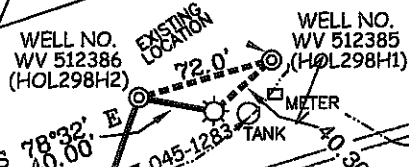
LAT=(N) 37.75694  
LONG=(W) 82.03630

COLE AND CRANE  
REAL ESTATE TRUST  
19,801.944 ACRES±

LONGITUDE 82° 00' 00"



### REFERENCES



WELL NO. WV 512386  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 277,298  
E. 1,700,365

LAT=(N) 37.75695  
LONG=(W) 82.03644

BOTTOM HOLE  
WELL NO. WV 512386  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 272,658  
E. 1,703,499

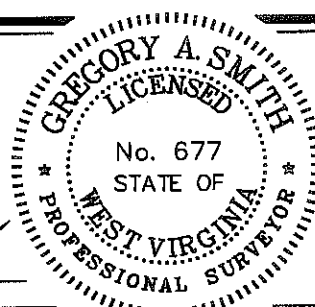
LAT=(N) 37.74430  
LONG=(W) 82.02542

### 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 08/06/09.
3. LEASE BOUNDARY SHOWN HEREDN TAKEN FROM A MAP SHOWING "PROPERTY OF COLE & CRANE REAL ESTATE TRUST" DATED JANUARY 1925 BY W.C. McCALL, ENGINEER.
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 08/10/09 REVISED 03/04/10 TO EXEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.

BOTTOM HOLE  
WELL NO.  
WV 512386

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE MARCH 04, 20 10

OPERATORS WELL NO. WV 512386

API WELL NO. 47-045-02317H

STATE COUNTY PERMIT  
**CANCELLED Revised**  
STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

P.S. 677

*Gregory A. Smith*

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3796P512386R (283-46)

SCALE 1" = 1000'

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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

LOCATION: ELEVATION 980' WATERSHED PINE CREEK

DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 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. 080574

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 4,460' (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 02/10/2012

COUNTY NAME

PERMIT