

EXISTING WELL  
A.P.I. #47-045-1161  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 267,997  
E. 1,698,832

LAT=(N) 37.73135  
LONG=(W) 82.04138

# COLE & CRANE REAL ESTATE TRUST LEASE

## 13,292.15 ACRES± WELL NO. WV 512137

WELL NO. WV 512137  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 267,960  
E. 1,698,839

LAT=(N) 37.73125  
LONG=(W) 82.04136

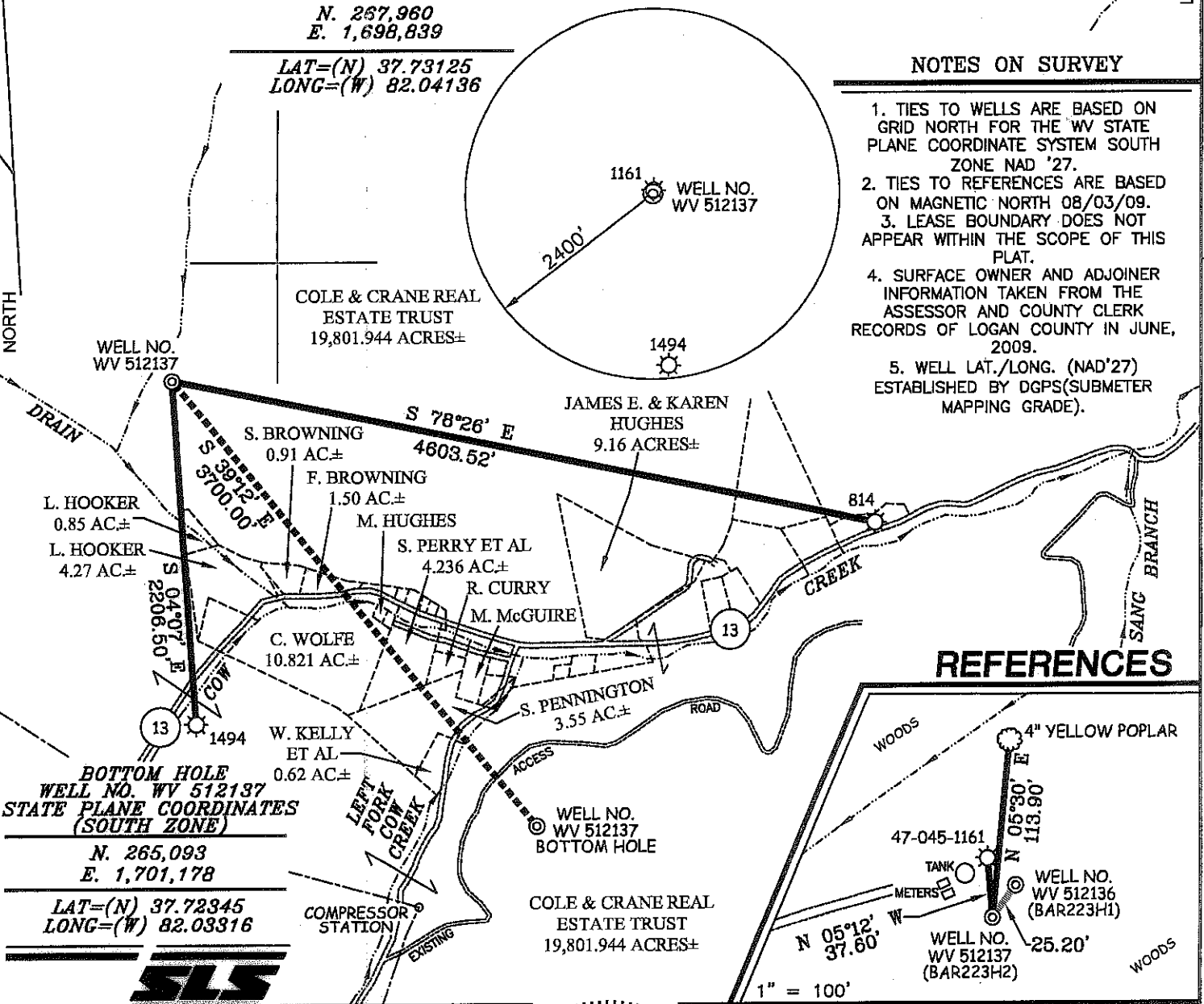
### NOTES ON SURVEY

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).

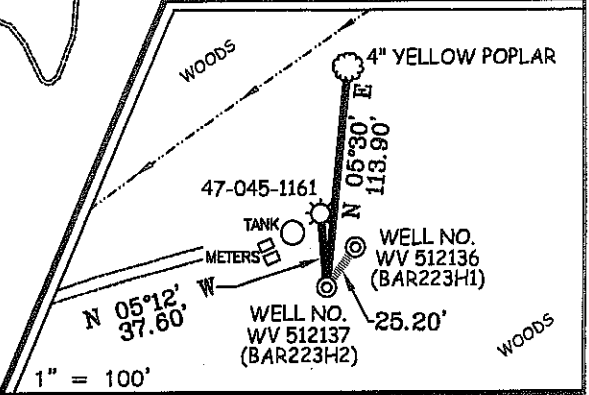
NORTH

LONGITUDE 82°00'00"

6,780'



### REFERENCES



BOTTOM HOLE  
WELL NO. WV 512137  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 265,093  
E. 1,701,178

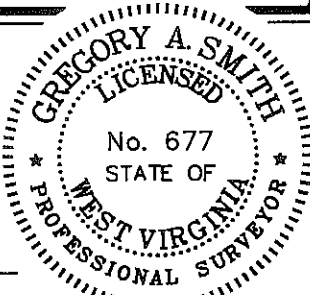
LAT=(N) 37.72345  
LONG=(W) 82.03316



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 SEPTEMBER 10, 20 09

OPERATORS WELL NO. WV 512137

API WELL NO. 47-045-02323H  
STATE OF WEST VIRGINIA PERMIT

**CANCELLED**

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3796P512137 (283-48)  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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

LOCATION: ELEVATION 1,229' WATERSHED TRIBUTARY 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±

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 4,730' (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 **09/21/2012**

COUNTY NAME

PERMIT