

COLE & CRANE REAL ESTATE TRUST LEASE 13,292.15 ACRES± WELL NO. WV 512136

WELL NO.
WV 512136
BOTTOM HOLE

COLE & CRANE REAL ESTATE TRUST
19,801.944 ACRES±

NOTES ON SURVEY

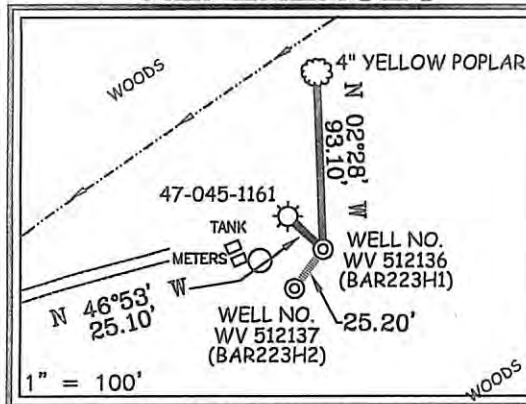
1. TIES TO WELLS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/03/09.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JUNE, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 09/10/09 REVISED 03/09/10 TO ROTATE & EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.

BOTTOM HOLE
WELL NO. WV 512136
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 273,083
E. 1,696,794

LAT=(N) 37.74526
LONG=(W) 82.04863

REFERENCES



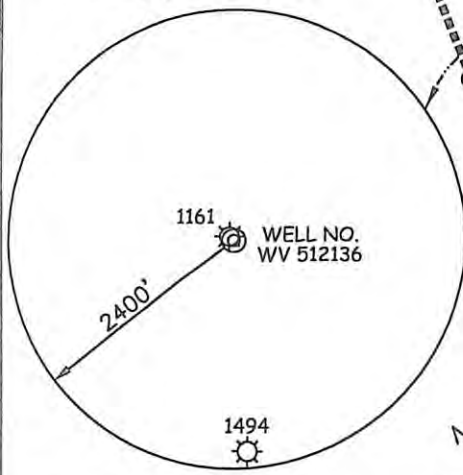
Cancelled

COLE & CRANE REAL ESTATE TRUST
19,801.944 ACRES±

UTM NAD83
N 4176526.91
E 408255.44
WELL NO. WV 512136
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 267,982
E. 1,698,851

LAT=(N) 37.73132
LONG=(W) 82.04131



WELL NO. WV 512136

S 03°46' E
2227.62'

S 78°08' E
4595.88'

JAMES E. & KAREN HUGHES
9.16 ACRES±

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

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 MARCH 09, 20 10
 OPERATORS WELL NO. WV 512136
 API WELL NO. 47-045-02355H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3796P512136R (283-48)
 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 1,229' 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. 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 4,730' (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

01/04/2013