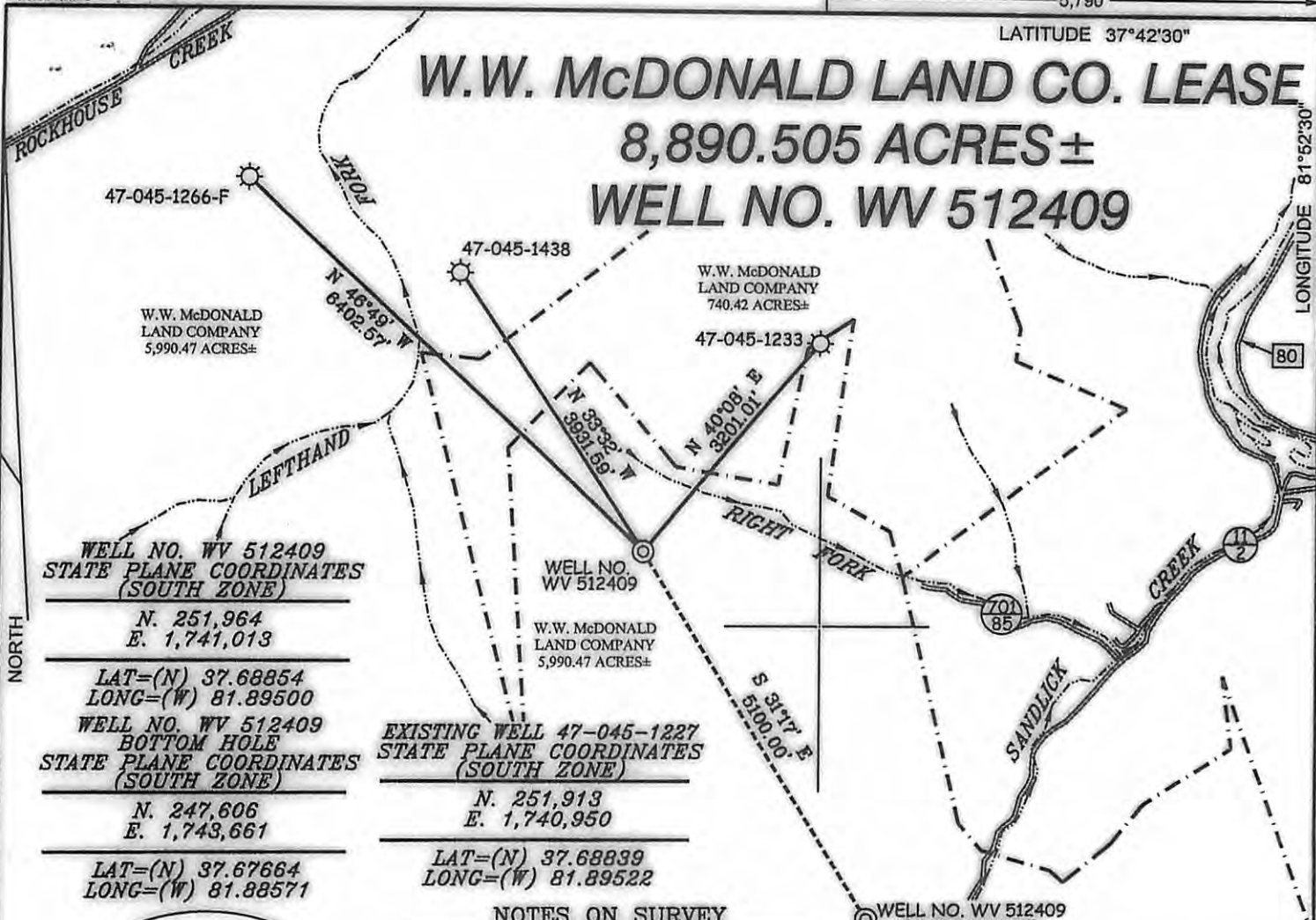


W.W. McDONALD LAND CO. LEASE

8,890.505 ACRES ±

WELL NO. WV 512409



WELL NO. WV 512409
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 251,964
E. 1,741,013

LAT=(N) 37.68854
LONG=(W) 81.89500

WELL NO. WV 512409
BOTTOM HOLE
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 247,606
E. 1,743,661

LAT=(N) 37.67664
LONG=(W) 81.88571

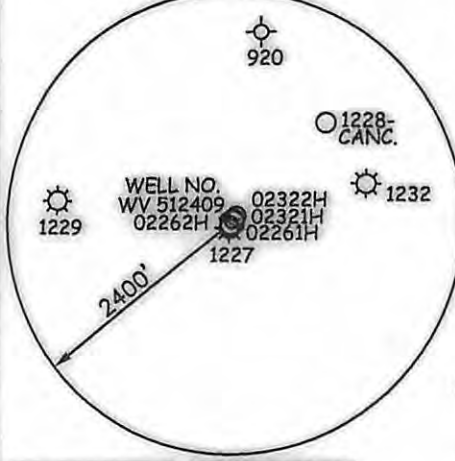
EXISTING WELL 47-045-1227
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 251,913
E. 1,740,950

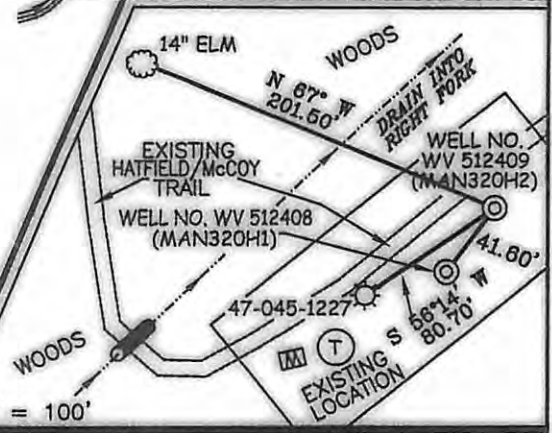
LAT=(N) 37.68839
LONG=(W) 81.89522

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 02/11/09.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED JANUARY 02, 1997 AS PREPARED BY SLS FOR A.P.I. NO. 47-045-1237.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JANUARY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 05/08/09 REVISED 03/16/10 TO ROTATE & EXTEND HORIZONTAL LEG AND CHANGE BOTTOM HOLE COORDINATES, ETC.



REFERENCES



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.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 16, 20 10
OPERATORS WELL NO. WV 512409
API WELL NO. 47-045-02412H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3850P512409R (276-07)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2,000'

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 1,432' WATERSHED RIGHT FORK OF SANDLICK CREEK
DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'

SURFACE OWNER W.W. McDONALD LAND COMPANY ACREAGE 5,990.47±
ROYALTY OWNER W.W. McDONALD LAND COMPANY LEASE ACREAGE 8,890.505±
PROPOSED WORK: LEASE NO. 080608
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 5,180' (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

08/09/2013

COUNTY NAME PERMIT