

3,470'

LATITUDE 37°47'30"

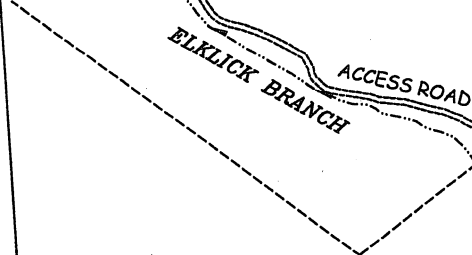
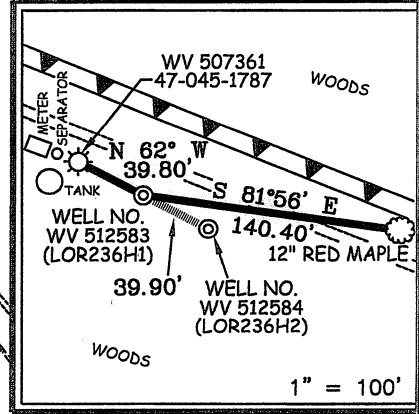
LONGITUDE 81°40'00"

# PARDEE LAND COMPANY LEASE 18,000 ACRES± WELL NO. WV 512583

PARDEE & CURTIN  
REALTY, LLC  
5,905.45 ACRES±

PARCEL "B"  
500 AC.±  
P/O 4,000 ACRE±  
LEASE

## REFERENCES



**EXISTING WELL**  
A.P.I. #47-045-1787  
STATE PLANE COORDINATES  
(SOUTH ZONE)

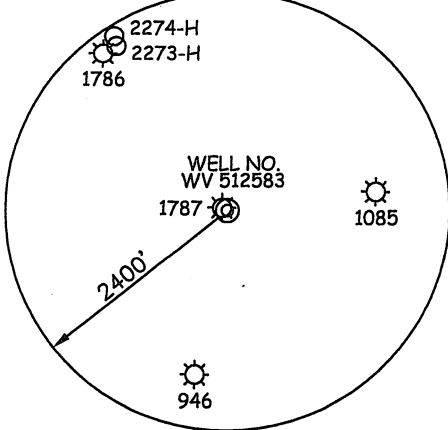
N. 287,349  
E. 1,803,836

LAT=(N) 37.78718  
LONG=(W) 81.67880

**WELL NO. WV 512583**  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 287,335  
E. 1,803,873

LAT=(N) 37.78714  
LONG=(W) 81.67868



PARDEE & CURTIN  
REALTY, LLC  
2,936 ACRES±

### 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 08/07/09.
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 JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

**BOTTOM HOLE**  
WELL NO. WV 512583  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 284,501  
E. 1,806,252

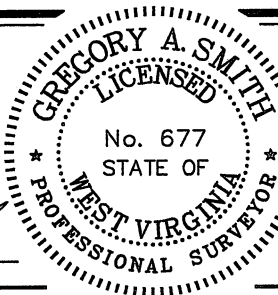
LAT=(N) 37.77940  
LONG=(W) 81.67037



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 AUGUST 27, 20 09

OPERATORS WELL NO. WV 512583

API WELL NO. 47-045-02312H  
STATE COUNTY PERMIT

**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3906P512583 (283-53)  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1"=1000'

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 1,982' WATERSHED ELCLICK BRANCH OF BUFFALO CREEK

DISTRICT TRIADDELPHIA COUNTY LOGAN QUADRANGLE LORADO 7.5'

SURFACE OWNER PARDEE & CURTIN REALTY, LLC ACREAGE 2,936±

ROYALTY OWNER PARDEE MINERALS, LLC LEASE ACREAGE 18,000±

PROPOSED WORK: LEASE NO. 004107

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 5,700' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302

COUNTY NAME  
PERMIT