

# PARDEE LAND COMPANY LEASE

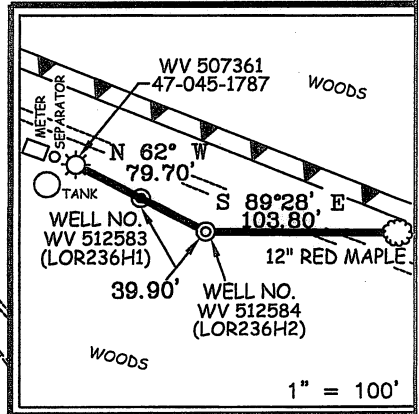
## 18,000 ACRES±

### WELL NO. WV 512584

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)

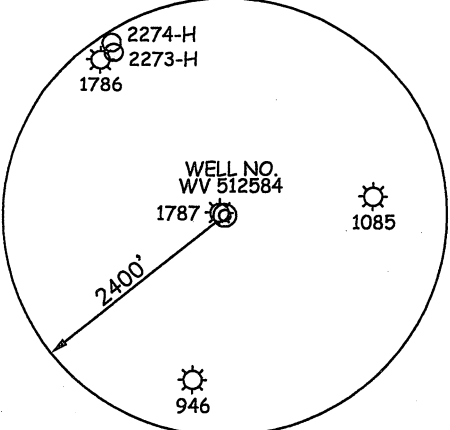
N. 287,349  
E. 1,803,836

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

**WELL NO. WV 512584**  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 287,322  
E. 1,803,911

LAT=(N) 37.78710  
LONG=(W) 81.67854



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 512584  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 284,488  
E. 1,806,290

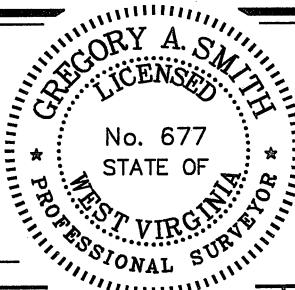
LAT=(N) 37.77937  
LONG=(W) 81.67024



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 512584

API WELL NO. 47-045-02313H

**CANCELLED**



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

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3906P512584 (283-53)  
SCALE 1"=1000'  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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

LOCATION: ELEVATION 1,982' WATERSHED ELKCLICK BRANCH OF BUFFALO CREEK

DISTRICT TRIADELPHIA 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 X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD

FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION LOWER HURON/SILTSTONE ESTIMATED DEPTH 5,280' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE CHARLESTON, WV 25302

COUNTY NAME PERMIT