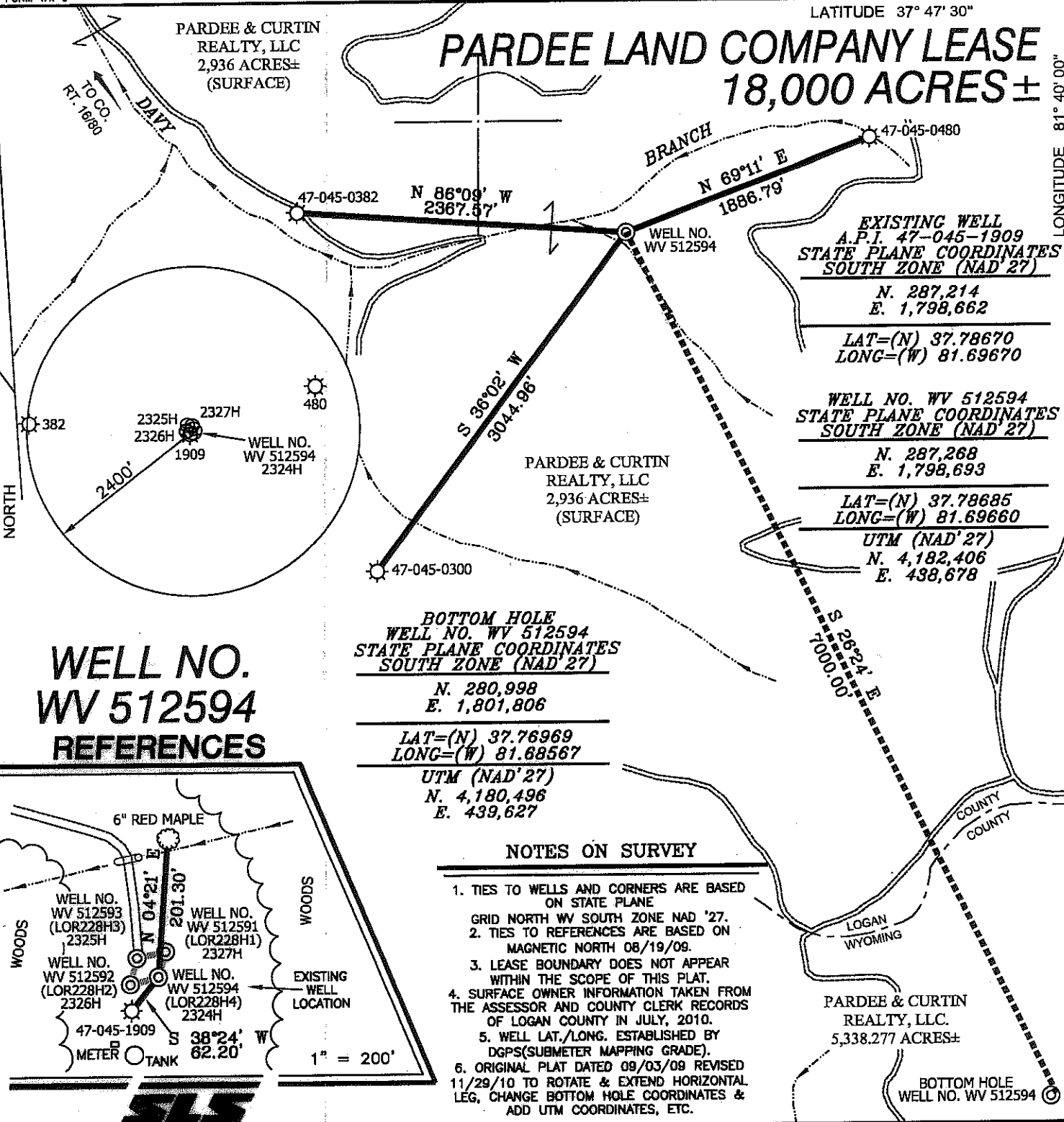


8,600'

LATITUDE 37° 47' 30"

# PARDEE LAND COMPANY LEASE 18,000 ACRES±

PARDEE & CURTIN  
REALTY, LLC  
2,936 ACRES±  
(SURFACE)



LONGITUDE 81° 40' 00"

EXISTING WELL  
A.P.I. 47-045-1909  
STATE PLANE COORDINATES  
SOUTH ZONE (NAD '27)

N. 287,214  
E. 1,798,662  
LAT=(N) 37.78670  
LONG=(W) 81.69670

WELL NO. WV 512594  
STATE PLANE COORDINATES  
SOUTH ZONE (NAD '27)

N. 287,268  
E. 1,798,693  
LAT=(N) 37.78685  
LONG=(W) 81.69660

UTM (NAD '27)  
N. 4,182,406  
E. 438,678

BOTTOM HOLE  
WELL NO. WV 512594  
STATE PLANE COORDINATES  
SOUTH ZONE (NAD '27)

N. 280,998  
E. 1,801,806

LAT=(N) 37.76969  
LONG=(W) 81.68567

UTM (NAD '27)  
N. 4,180,496  
E. 439,627

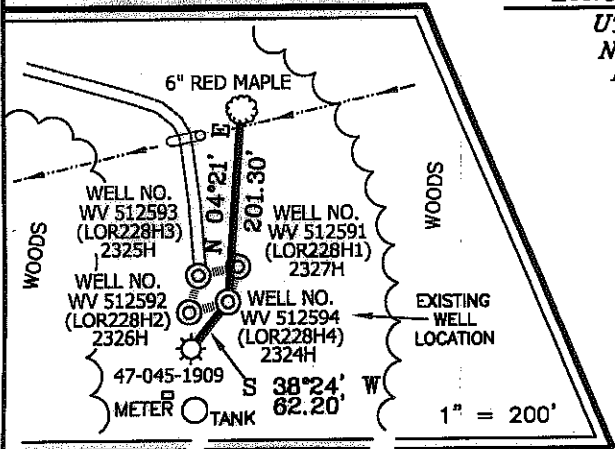
### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/19/09.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2010.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 09/03/09 REVISED 11/29/10 TO ROTATE & EXTEND HORIZONTAL LEG, CHANGE BOTTOM HOLE COORDINATES & ADD UTM COORDINATES, ETC.

PARDEE & CURTIN  
REALTY, LLC.  
5,338.277 ACRES±

BOTTOM HOLE  
WELL NO. WV 512594

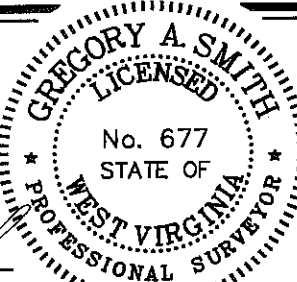
## WELL NO. WV 512594 REFERENCES



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 NOVEMBER 29, 20 10

OPERATORS WELL NO. WV 512594

API WELL NO. 47-045-02324H  
COUNTY PERMIT

**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3906P512594R (283-61)  
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 1,614' WATERSHED DAVY 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: 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/SILTSTONE  
ESTIMATED DEPTH 4,870' (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