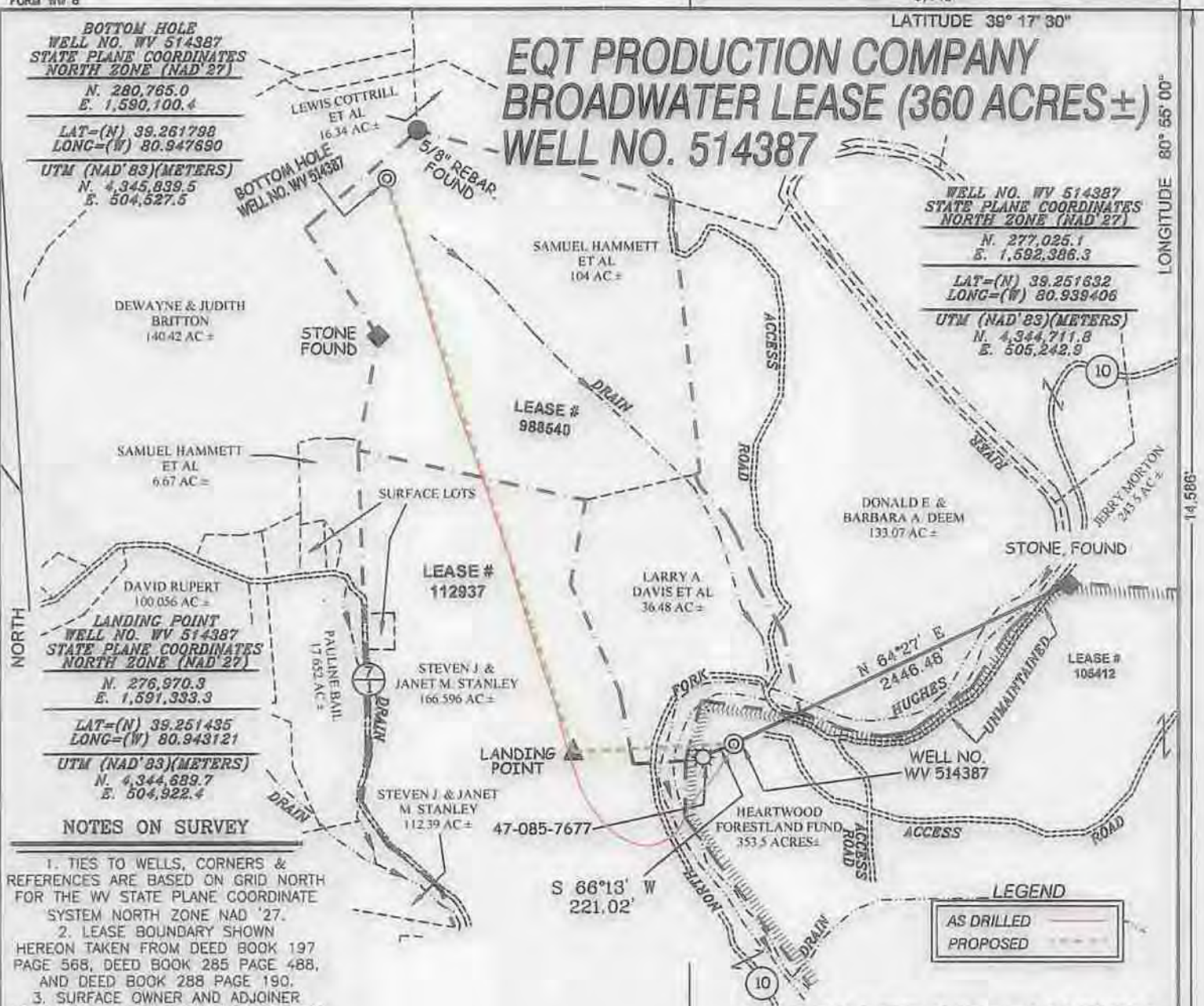


# EQT PRODUCTION COMPANY BROADWATER LEASE (360 ACRES±) WELL NO. 514387

**BOTTOM HOLE**  
WELL NO. WV 514387  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 280,785.0  
E. 1,590,100.4  
LAT=(N) 39.261798  
LONG=(W) 80.947690  
UTM (NAD'83)(METERS)  
N. 4,345,839.5  
E. 504,527.5

WELL NO. WV 514387  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 277,025.1  
E. 1,592,386.3  
LAT=(N) 39.251632  
LONG=(W) 80.939406  
UTM (NAD'83)(METERS)  
N. 4,344,711.8  
E. 505,242.9



**LANDING POINT**  
WELL NO. WV 514387  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 276,970.3  
E. 1,591,333.3  
LAT=(N) 39.251435  
LONG=(W) 80.943121  
UTM (NAD'83)(METERS)  
N. 4,344,689.7  
E. 504,922.4

**NOTES ON SURVEY**

1. TIES TO WELLS, CORNERS & REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 197 PAGE 568, DEED BOOK 285 PAGE 488, AND DEED BOOK 288 PAGE 190.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).
5. PLAT UPDATED 08/14/13 TO SHOW THE AS-DRILLED COORDINATES FROM INFORMATION PROVIDED BY EQT ON 08/08/13.



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*

**AS DRILLED INFORMATION**

BOTTOM HOLE WELL NO. WV 514387 STATE PLANE COORDINATES NORTH ZONE (NAD'27)	WELL NO. WV 514387 STATE PLANE COORDINATES NORTH ZONE (NAD'27)
N. 280,785.0 E. 1,590,084.8	N. 277,025.1 E. 1,592,386.3
LAT=(N) 39.261799 LONG=(W) 80.947745	LAT=(N) 39.251632 LONG=(W) 80.939406
UTM (NAD'83)(METERS) N. 4,345,839.3 E. 504,522.7	UTM (NAD'83)(METERS) N. 4,344,711.8 E. 505,242.9

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE SEPTEMBER 20 , 20 12  
REVISED DATE AUGUST 14, 2013 & JUNE 27, 2014  
OPERATORS WELL NO. WV 514387  
API WELL NO. 47-085-10014  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7566ASDRILLED514387R  
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) 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 787.5 (GROUND) 785 (PROPOSED) WATERSHED NORTH FORK HUGHES RIVER  
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'  
SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 353.50±  
ROYALTY OWNER JEFFERSON BROADWATER HEIRS ET AL (360 AC.±), JOELYNN FAMILY PRESERVATION TRUST (140.48 AC.±) & RAYMOND HARDMAN (178 AC.±)  
PROPOSED WORK: LEASE NO. 105412 / 988540 / 112937  
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 MARCELLUS  
ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

09122014

COUNTY NAME PERMIT