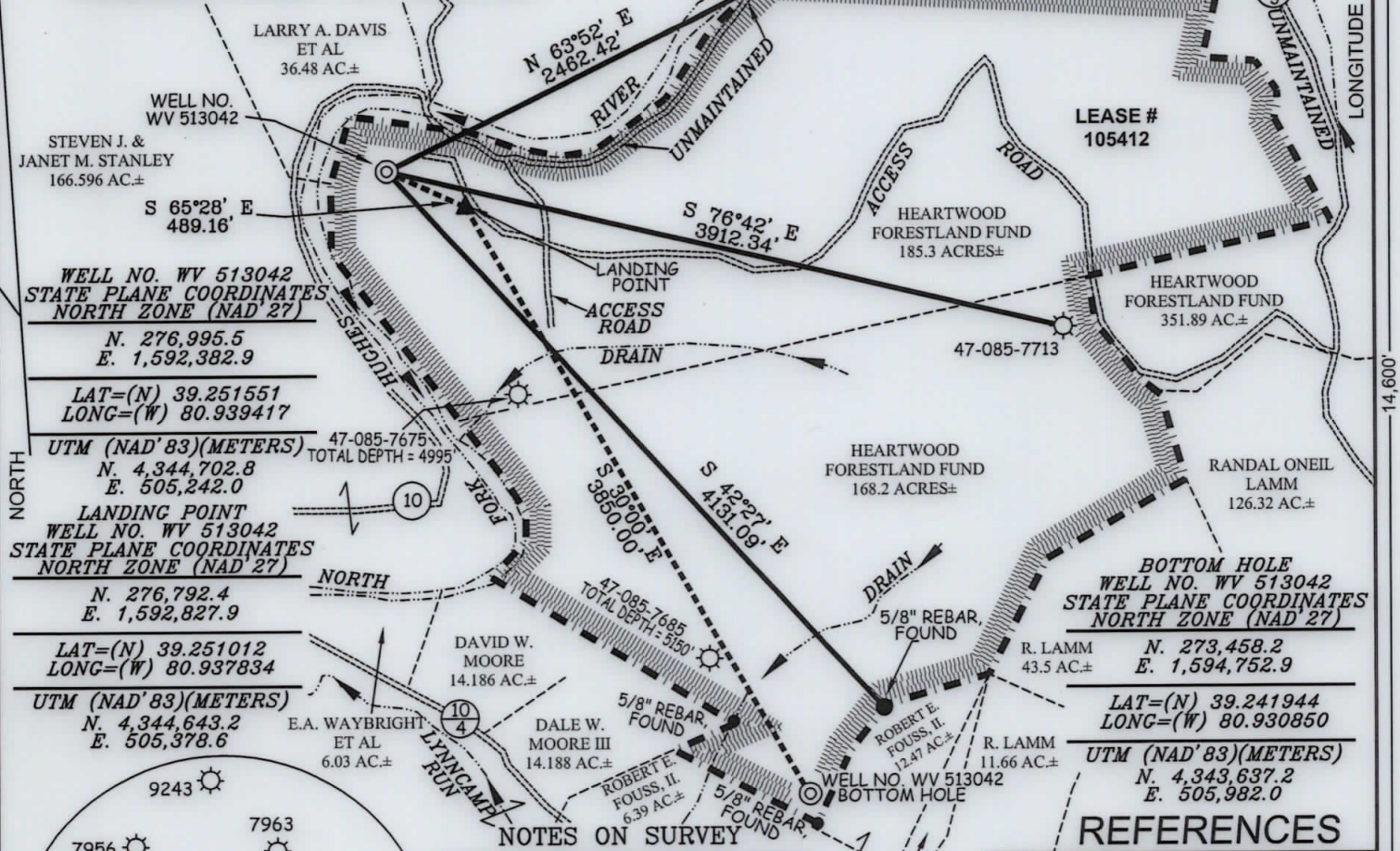


BROADWATER LEASE 360 ACRES ± WELL NO. 513042

6,440' LATITUDE 39° 17' 30"

LONGITUDE 80° 55' 00"



WELL NO. WV 513042
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)

N. 276,995.5
E. 1,592,382.9

LAT=(N) 39.251551
LONG=(W) 80.939417

UTM (NAD'83)(METERS)
N. 4,344,702.8
E. 505,242.0

LANDING POINT
WELL NO. WV 513042
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)

N. 276,792.4
E. 1,592,827.9

LAT=(N) 39.251012
LONG=(W) 80.937834

UTM (NAD'83)(METERS)
N. 4,344,643.2
E. 505,378.6

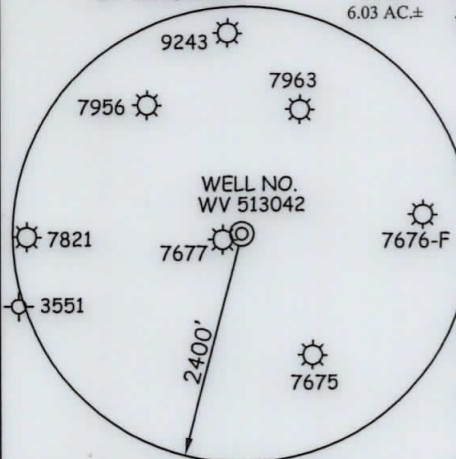
LEASE # 105412

BOTTOM HOLE
WELL NO. WV 513042
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)

N. 273,458.2
E. 1,594,752.9

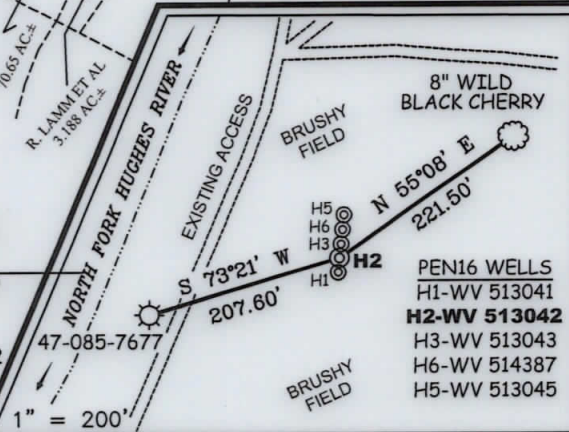
LAT=(N) 39.241944
LONG=(W) 80.930850

UTM (NAD'83)(METERS)
N. 4,343,637.2
E. 505,982.0



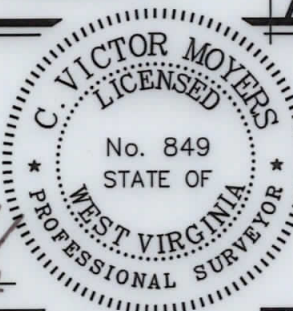
- NOTES ON SURVEY**
1. TIES TO WELLS, CORNERS & REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
 2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 197 PAGE 568.
 3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2010.
 4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).
 5. PLAT DATED 9/22/11 REVISED 9/20/12 TO SHOW NEW LANDING POINT & 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 SEPTEMBER 20, 20 12
OPERATORS WELL NO. WV 513042
API WELL NO. 47-85-9951H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7566P513042EQT (329-36)
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' (GROUND) - 795' (PROPOSED) WATERSHED NORTH FORK HUGHES RIVER
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 185.3±
ROYALTY OWNER JEFFERSON BROADWATER HEIRS ET AL LEASE ACREAGE 360±
PROPOSED WORK: LEASE NO. 105412

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

COUNTY NAME PERMIT