

WELL NO. WV 513045
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)

N. 277,040.2
E. 1,592,397.7

LAT=(N) 39.251674
LONG=(W) 80.939402

UTM (NAD'83)
N. 4,344,716.4
E. 505,243.2

LANDING POINT
WELL NO. WV 513045
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)

N. 276,826.7
E. 1,593,565.0

LAT=(N) 39.251139
LONG=(W) 80.935234

UTM (NAD'83)
N. 4,344,657.4
E. 505,603.0

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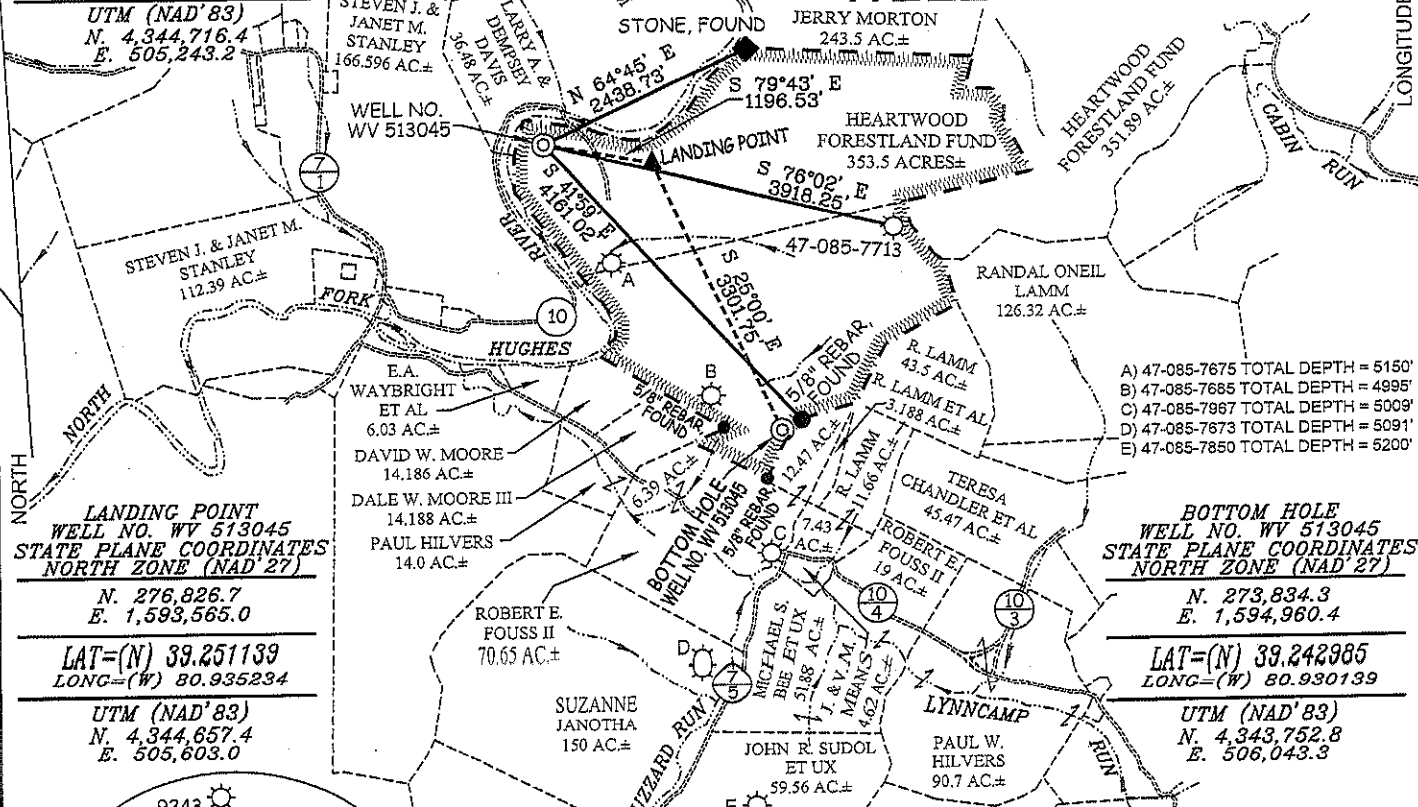
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E. 505,603.0

BROADWATER LEASE 360 ACRES± WELL NO. 513045



- A) 47-085-7675 TOTAL DEPTH = 5150'
- B) 47-085-7685 TOTAL DEPTH = 4995'
- C) 47-085-7967 TOTAL DEPTH = 5009'
- D) 47-085-7673 TOTAL DEPTH = 5091'
- E) 47-085-7850 TOTAL DEPTH = 5200'

BOTTOM HOLE
WELL NO. WV 513045
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)

N. 273,834.3
E. 1,594,960.4

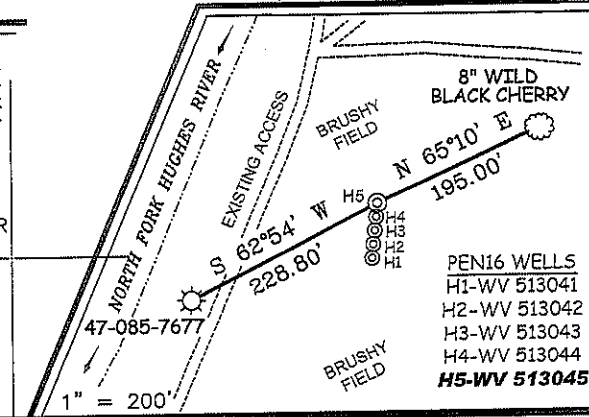
LAT=(N) 39.242985
LONG=(W) 80.930139

UTM (NAD'83)
N. 4,343,752.8
E. 506,043.3

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 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).

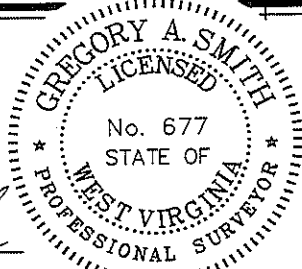
REFERENCES



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 OCTOBER 13, 20 11

OPERATORS WELL NO. WV 513045

API WELL NO. 47-085-09953H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7566P513045AR2 (329-36)
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 2000'

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

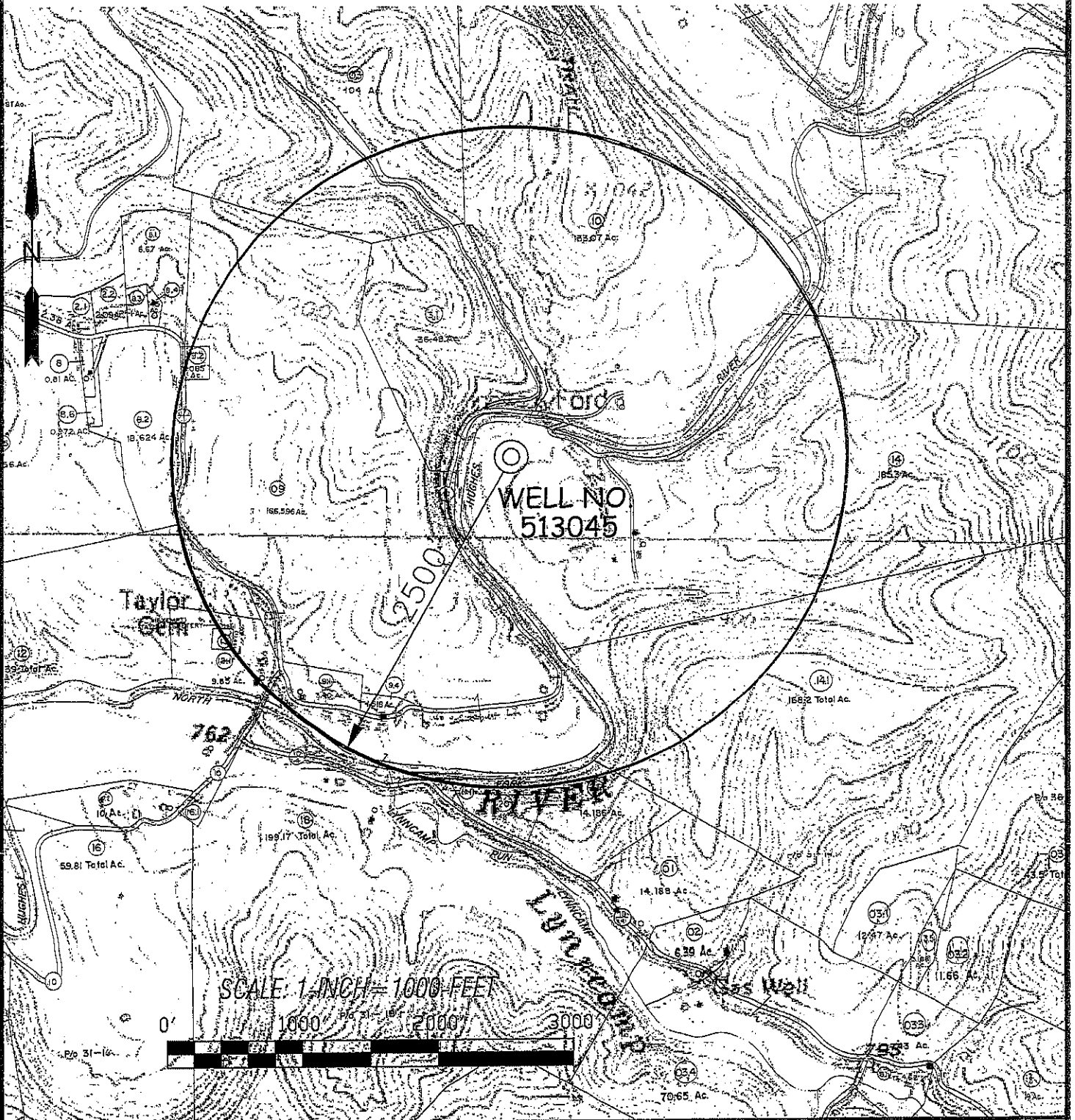
LOCATION: ELEVATION 788' (GROUND) 795' (PROPOSED) WATERSHED NORTH FORK HUGHES RIVER
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 353.5±
ROYALTY OWNER JEFFERSON BROADWATER HEIRS ET AL LEASE ACREAGE 360±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER 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 MARCELLUS
ESTIMATED 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

COUNTY NAME
PERMIT

BROADWATER LEASE WELL NO. 513045

85-09953H



				TOPO SECTION OF: PENNSBORO, WV 7.5' QUAD.		OPERATOR: EQT PRODUCTION COMPANY 1710 PENNSYLVANIA AVE CHARLESTON, WV 25302	
SMITH LAND SURVEYING, INC. P.O. BOX 150 GLENVILLE, WV, 26351 PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sss@sslssurveys.com				DISTRICT	COUNTY	TAX MAP-PARCEL NO.	
DRAWN BY J.L.B.	FILE NO. 7568	DATE 10-03-11	CADD FILE: 7568WSHS.DWG	CLAY	RITCHIE	31-14	