

9,870'

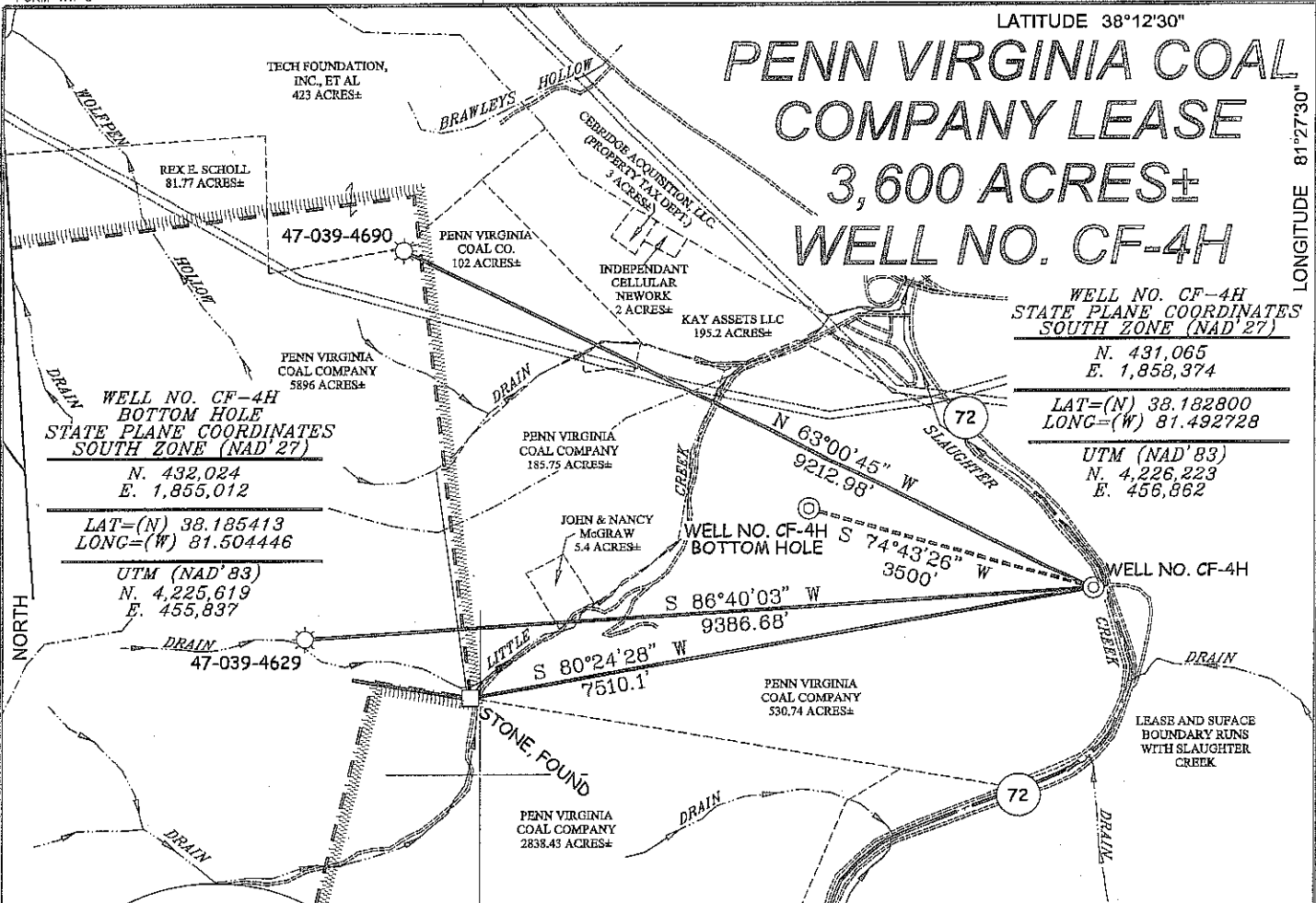
LATITUDE 38°12'30"

PENN VIRGINIA COAL COMPANY LEASE

3,600 ACRES±

WELL NO. CF-4H

LONGITUDE 81°27'30"



WELL NO. CF-4H
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

N. 431,065
E. 1,858,374

LAT=(N) 38.182800
LONG=(W) 81.492728

UTM (NAD'83)
N. 4,226,223
E. 456,862

WELL NO. CF-4H
BOTTOM HOLE
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

N. 432,024
E. 1,855,012

LAT=(N) 38.185413
LONG=(W) 81.504446

UTM (NAD'83)
N. 4,225,619
E. 455,837

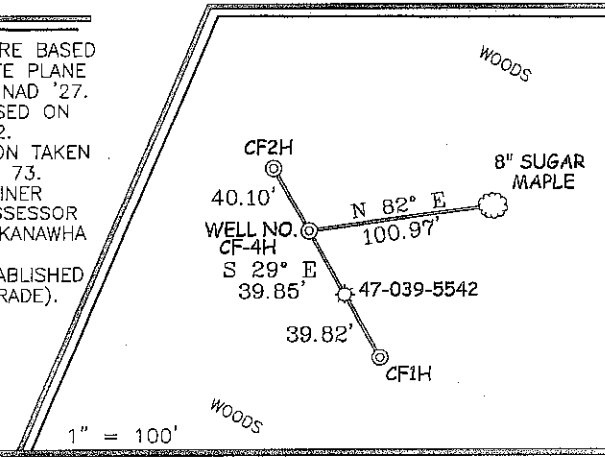
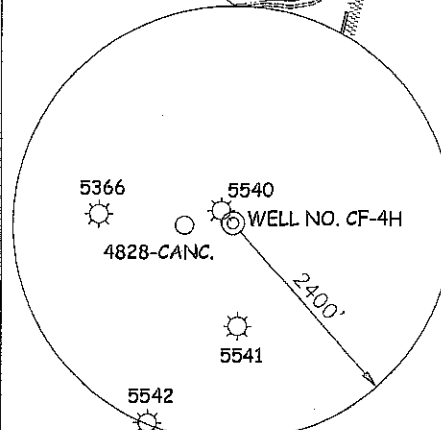
WELL NO. CF-4H
BOTTOM HOLE

WELL NO. CF-4H

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 01/30/12.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 1196 PAGE 73.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF KANAWHA COUNTY IN JULY, 2011.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

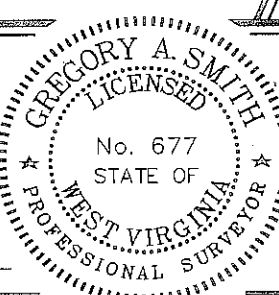
REFERENCES



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 FEBRUARY 1, 2012

OPERATORS WELL NO. CF-4H

API WELL NO. 47-039-063304
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500
FILE NO. 2489APCF4HR (399-28)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)
SCALE 1" = 2,000'

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 654' WATERSHED SLAUGHTER CREEK
DISTRICT CABIN CREEK COUNTY KANAWHA QUADRANGLE CEDAR GROVE 7.5'

SURFACE OWNER PENN VIRGINIA COAL COMPANY ACREAGE 530.74±
ROYALTY OWNER PENN VIRGINIA COAL COMPANY LEASE ACREAGE 3,600±

PROPOSED WORK: LEASE NO. _____
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 WEIR
ESTIMATED DEPTH 1,920'

WELL OPERATOR NORTHSTAR ENERGY CORPORATION DESIGNATED AGENT NANCY ABCOUWER
ADDRESS 900 LEE STREET E., SUITE 940 ADDRESS 900 LEE STREET E., SUITE 940
CHARLESTON, WV 25301 CHARLESTON, WV 25301

03/02/2012

COUNTY NAME

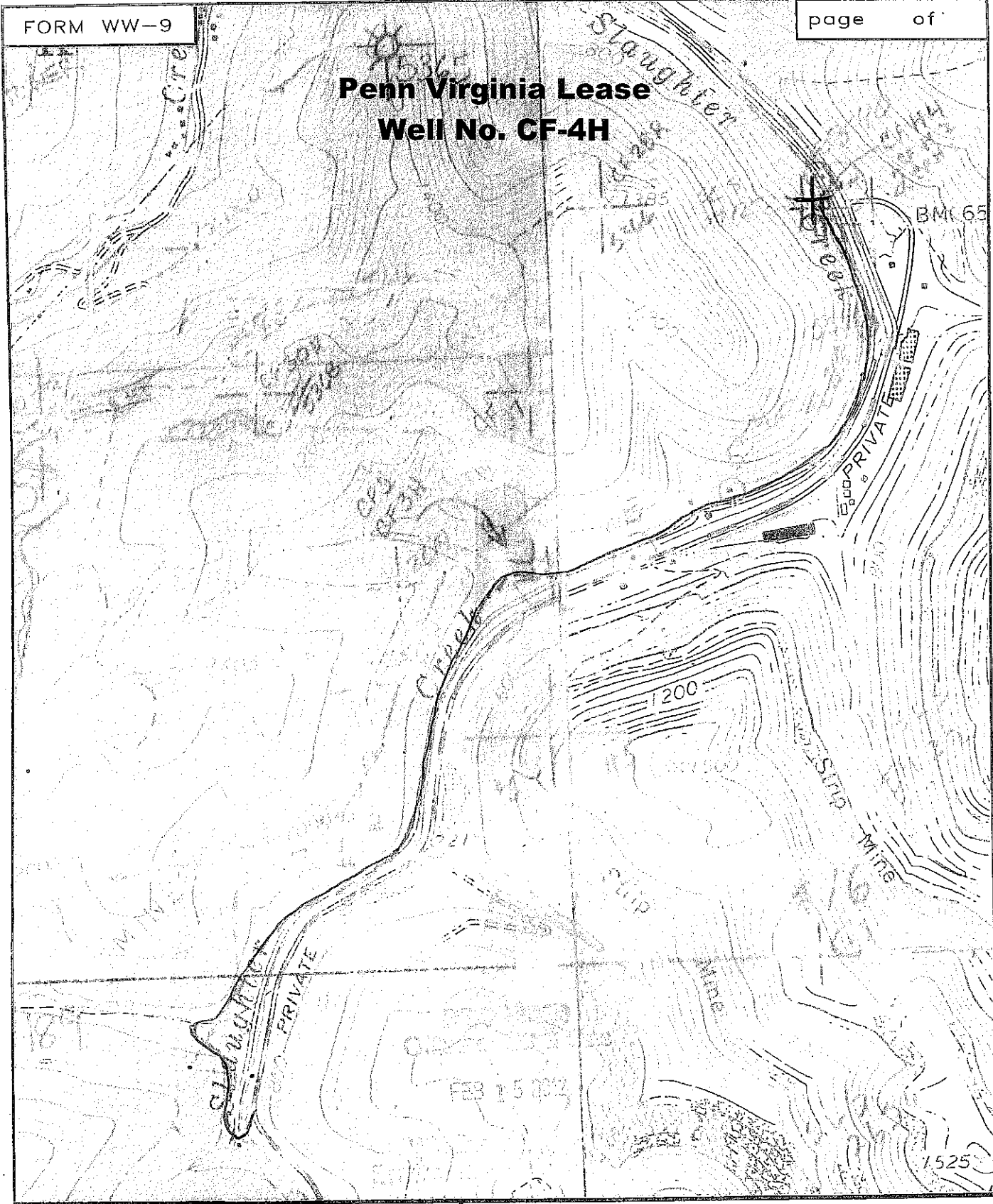
PERMIT

39-06330H

FORM WW-9

page of

Penn Virginia Lease Well No. CF-4H



SMITH LAND SURVEYING
P.O. BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF CEDAR GROVE 7.5'

FILE NO. 2489A DATE 2/2/12 SCALE 63/02/2000'