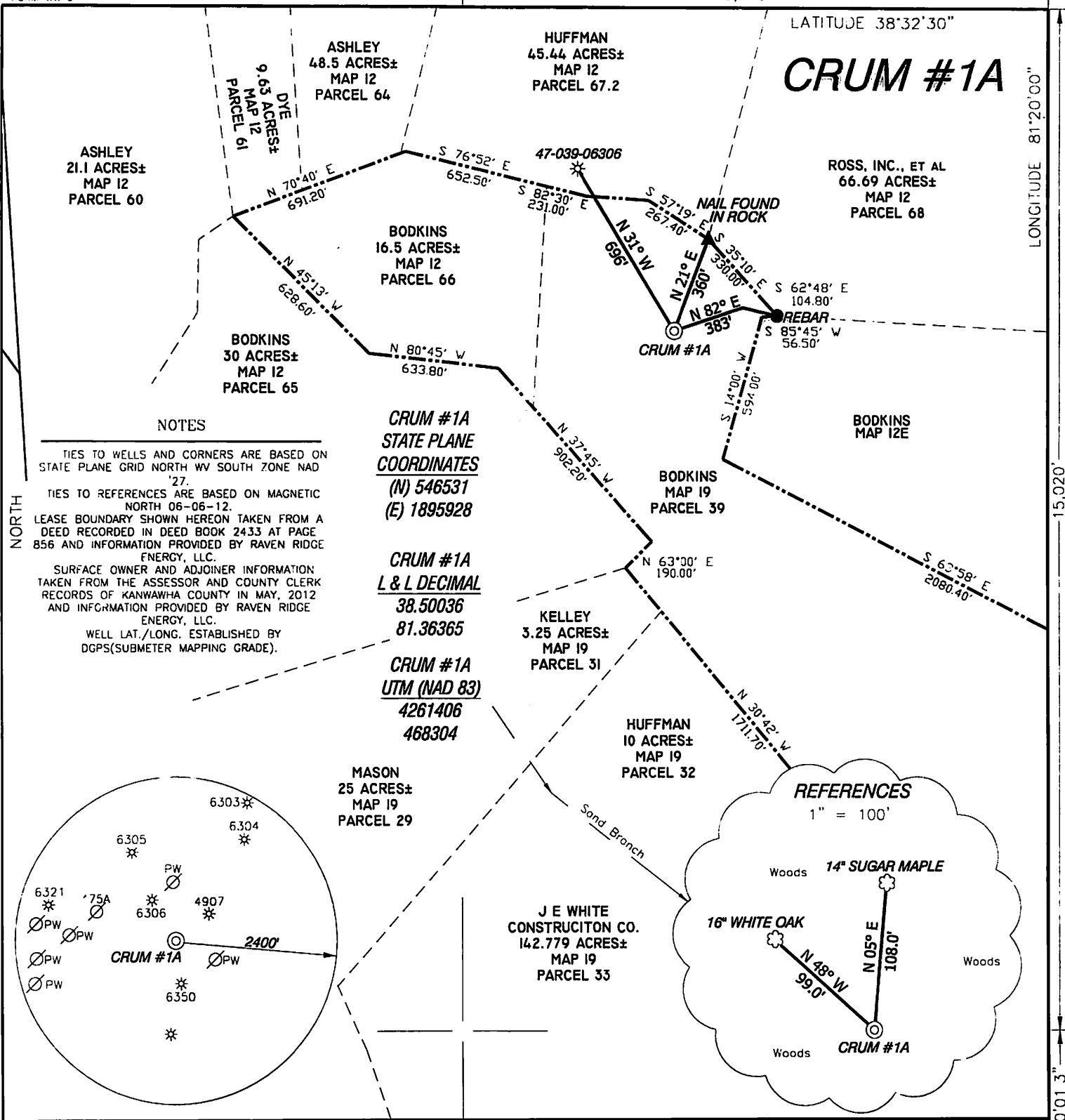


CRUM #1A



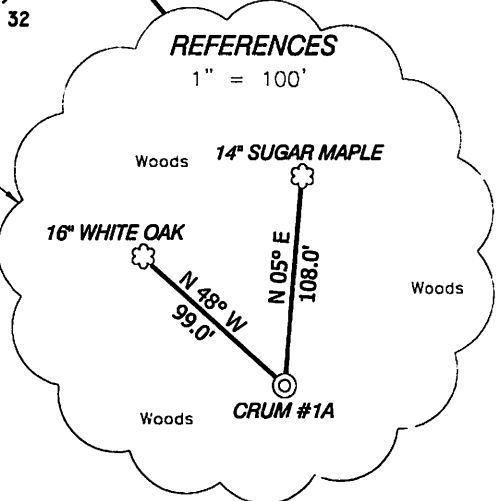
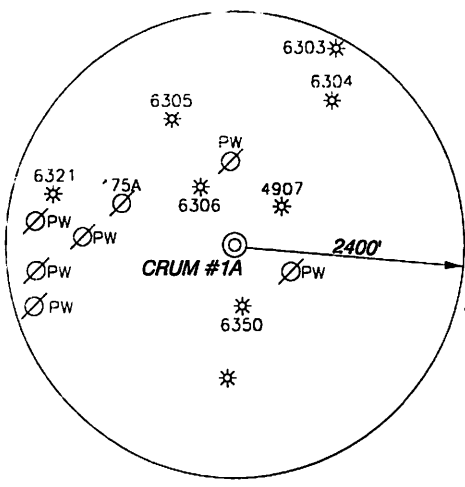
NOTES

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
 TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 06-06-12.
 LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 2433 AT PAGE 856 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.
 SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF KANAWHA COUNTY IN MAY, 2012 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.
 WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

CRUM #1A
STATE PLANE
COORDINATES
 (N) 546531
 (E) 1895928

CRUM #1A
L & L DECIMAL
 38.50036
 81.36365

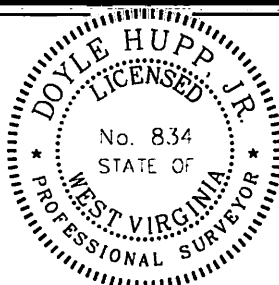
CRUM #1A
UTM (NAD 83)
 4261406
 468304



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.

Doyle Hupp Jr.
 P.S. 834

HUPP Surveying & Mapping
 P.O. Box 647 Grantsville, WV 26147
 (304) 354-7035 EMAIL: hupp@frontiernet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 13, 2013
 OPERATOR'S WELL NO. CRUM #1A
 API WELL NO. 47-039-06349R
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2144 (BK 56-58)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 500'

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 1,089' WATERSHED SAND BRANCH OF BIG SANDY CREEK
 DISTRICT BIG SANDY COUNTY KANAWHA QUADRANGLE CLIO 7.5'

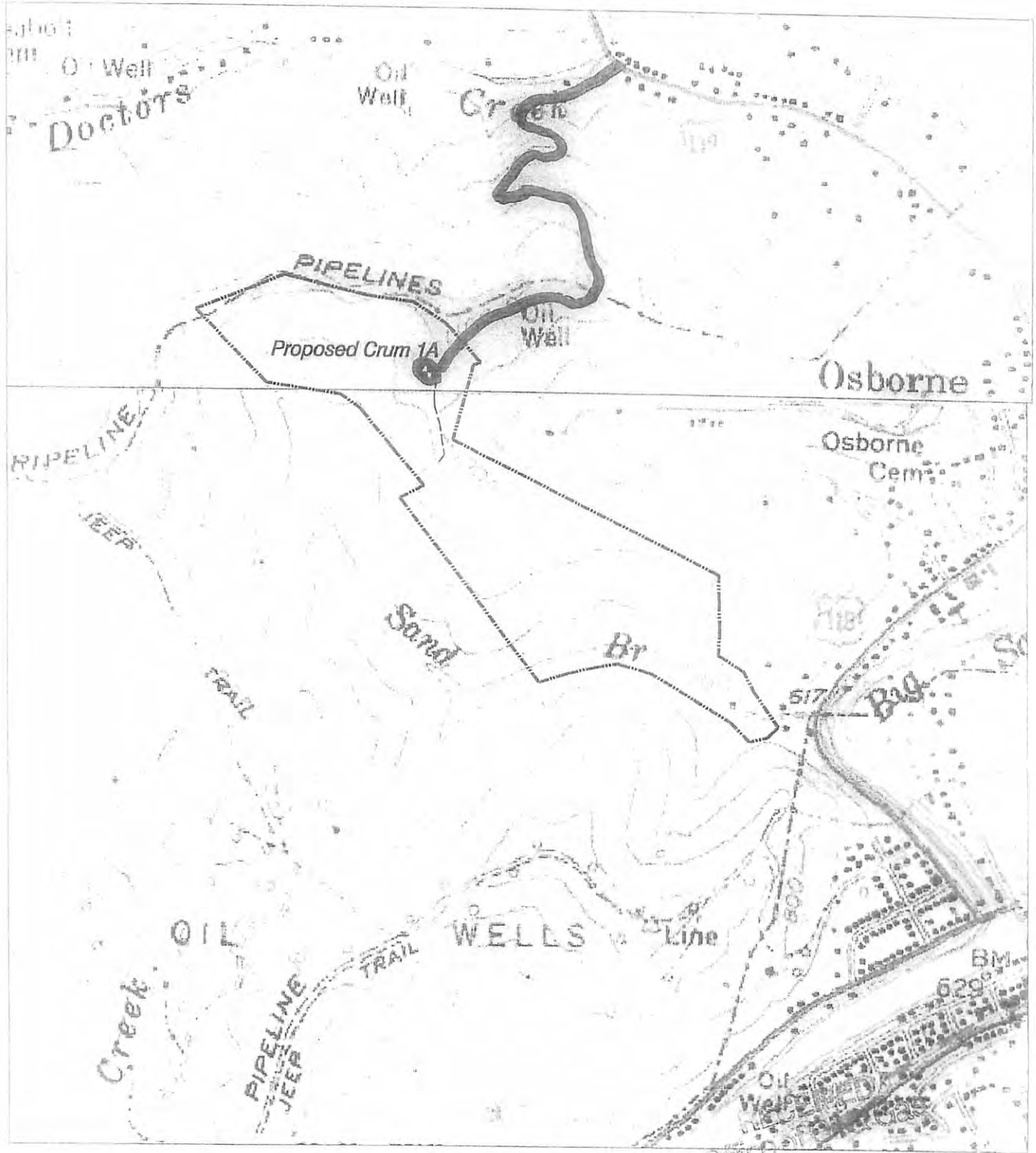
SURFACE OWNER DANIEL & LAURA BODKINS ACREAGE 48.16±
 ROYALTY OWNER AVA CRUM, et al LEASE ACREAGE 146.5±

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 BEREA
 ESTIMATED DEPTH 3,000'

WELL OPERATOR RAVEN RIDGE ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM
 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

11/22/2013

RAVEN RIDGE ENERGY, LLC. CRUM #1A



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
Clio Quad

Raven Ridge Energy, LLC
3230 Pennsylvania Ave.
Charleston, WV 25302

Received

OCT 15 2013

Office of Oil and Gas
WV Dept. of Environmental Protection