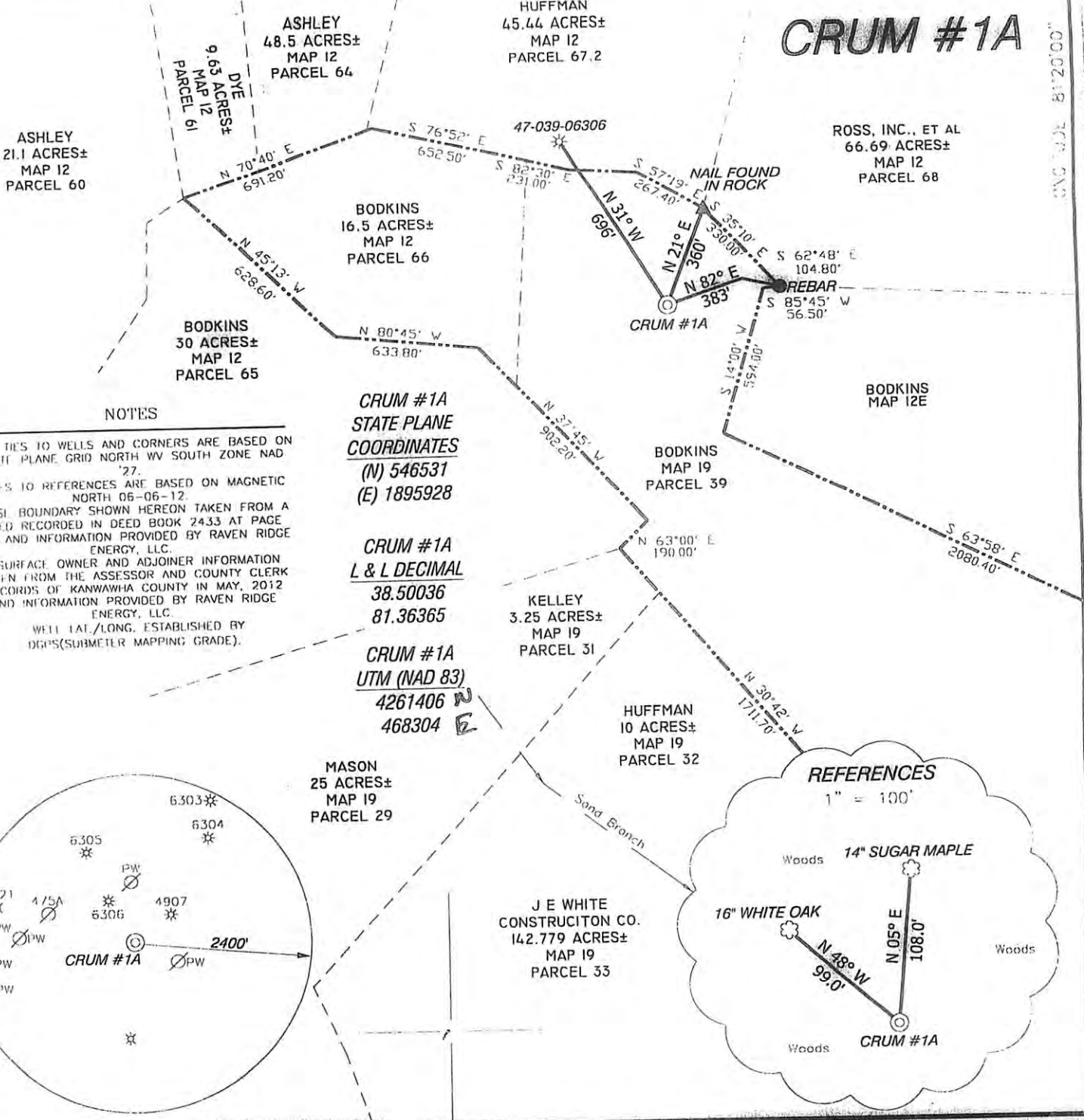


LONG. 81°21'49.1"

8,700'

ATITUDE 38°32'30"

# 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.

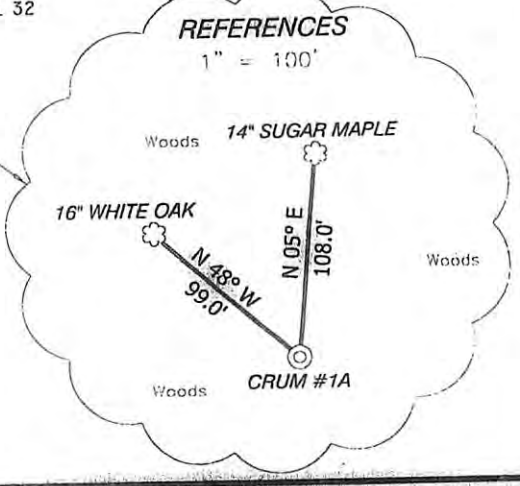
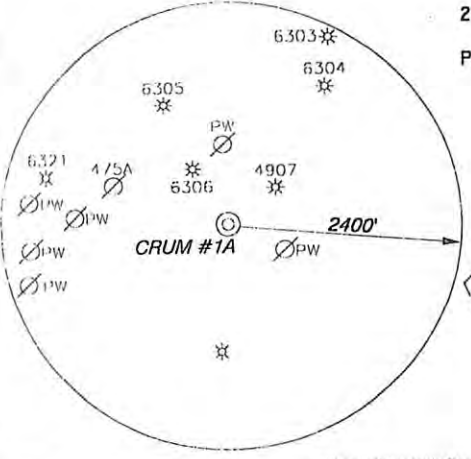
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF KANAWHA COUNTY IN MAY, 2012 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

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 N  
 468304 E



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 12, 2012

OPERATORS WELL NO CRUM #1A

API NO 47 STATE

WELL NO 039 COUNTY


PERMIT NO 06349

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

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2144 (BK 56-58)

PROVIN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 500'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS



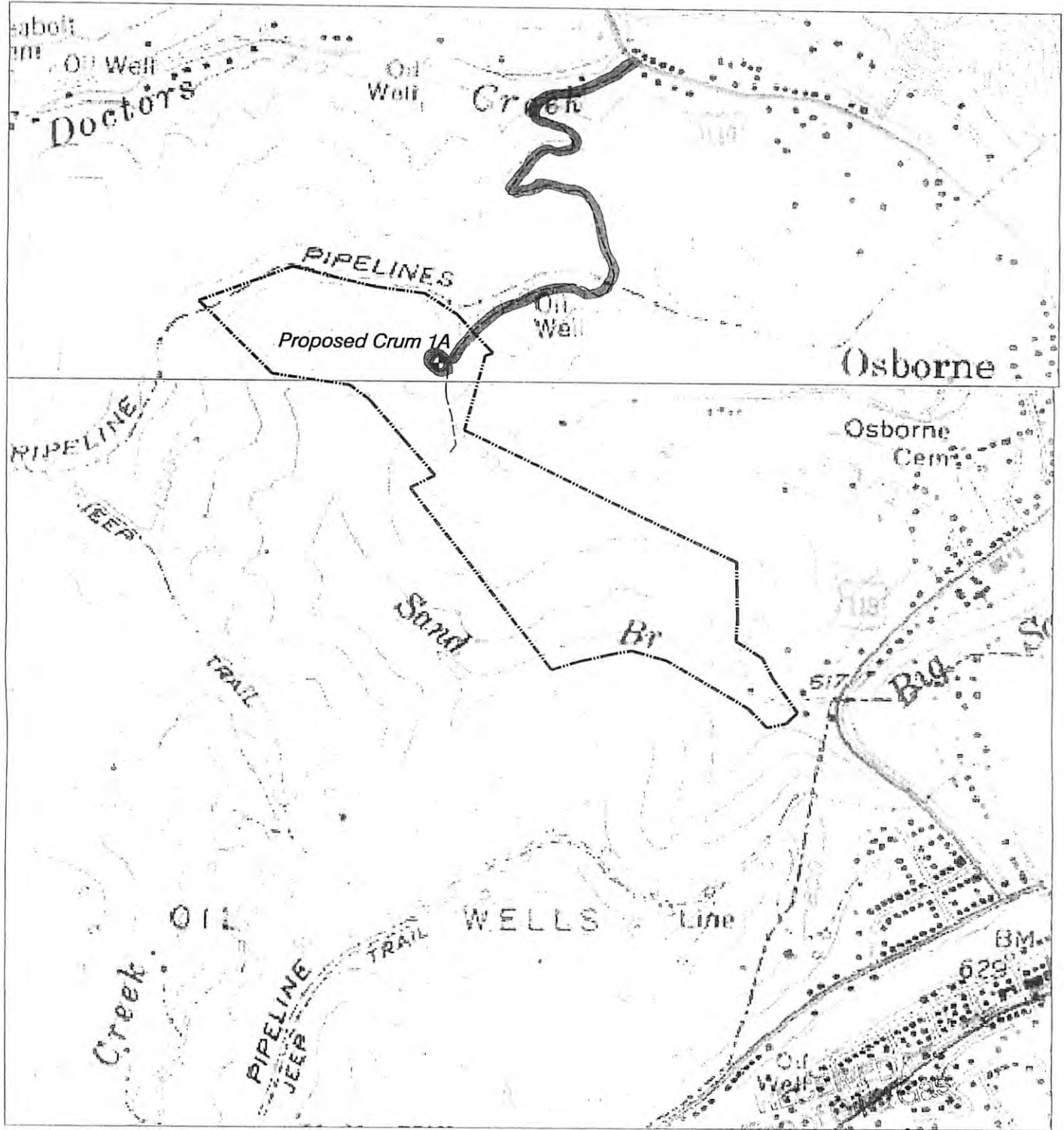
WELL TYPE	<input checked="" type="checkbox"/> GAS	<input type="checkbox"/> LIQUID INJECTION	<input type="checkbox"/> WASTE DISPOSAL	<input type="checkbox"/> "GAS" PRODUCTION	<input checked="" type="checkbox"/> STORAGE	<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> SHALLOW
ELEVATION	<u>1,089'</u>	WATERSHED	<u>SAND BRANCH</u>	QUADRANGLE	<u>CLIO 7.5'</u>	ACREAGE	<u>48.16±</u>
DISTRICT	<u>BIG SANDY</u>	COUNTY	<u>KANAWHA</u>	LEASE ACREAGE	<u>146.5±</u>	LEASE NO.	
NEED TO OWNER	<u>DANIEL &amp; LAURA BODKINS</u>						
ROYALTY OWNER	<u>AVA CRUM, et al</u>						
PROPOSED WORK	<input checked="" type="checkbox"/> CONVERT	<input type="checkbox"/> DRILL DEEPER	<input type="checkbox"/> REDRILL	<input checked="" type="checkbox"/> FRACTURE OR STIMULATE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> CLEAN OUT AND REPERFORATE	<input type="checkbox"/> OTHER
FORMATION	<u>PERFORATE NEW FORMATION</u>			TARGET FORMATION	<u>BURLA</u>	ESTIMATED DEPTH	<u>3,000'</u>
PHYSICAL CHANGE IN WELL (SPECIFY)							

WELL OPERATOR RAVEN RIDGE ENERGY, LLC DESIGNATED AGENT RYAN CUNNINGHAM

ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

12/28/2012

# RAVEN RIDGE ENERGY, LLC. CRUM #1A



<p><b>HUPP Surveying &amp; Mapping</b></p> <p>P.O. BOX 647 GRANTSVILLE, WV 26147          PH: (304)354-7035 E-MAIL: hupp@frontiernet.net</p>	<p>1" = 1000'          Clio Quad</p>	<p>Raven Ridge Energy, LLC          3230 Pennsylvania Ave.          Charleston, WV 25302</p>
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