



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 09, 2013

WELL WORK PERMIT


Re-Work

This permit, API Well Number: 47-3906348, issued to RAVEN RIDGE ENERGY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: OSBORNE 2A
Farm Name: BODKINS, DANIEL & LAURA
API Well Number: 47-3906348
Permit Type: Re-Work
Date Issued: 12/09/2013

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

3906348 R
~~3906348 R~~

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION**

1) Well Operator: RAVEN RIDGE ENERGY, LLC 494485865 KANAWHA -39 BIG SANDY - 01 CLENDENIN - 299
Operator ID County District Quadrangle

2) Operator's Well Number: OSBORNE 2A 3) Elevation: 846'

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow

5) Proposed Target Formation(s): WEIR Proposed Target Depth: 2,100'

6) Proposed Total Depth: 2,400' Feet Formation at Proposed Total Depth: 2,000' - 2,400'

7) Approximate fresh water strata depths: 150'

8) Approximate salt water depths: 1,100' - 1,600'

9) Approximate coal seam depths: NO COAL LISTED ON TITLE

10) Approximate void depths,(coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NO

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
RUN 4 1/2" CASING, STIMULATE AND FRAC (ACID & WATER) AN EXISTING WELL

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor						
Fresh Water	9 5/8"	LS	17LBS	350'	EXISTING	CTS
Coal						
Intermediate	7"	J55	23LBS	1,850'	EXISTING	CTS
Production	4 1/2"	J55	10.5LBS	2200'	2200'	150 Sacks
Tubing						
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

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Office of Oil and Gas
WW Dept. of Environmental Protection

12/13/2013

3906348R

7012 2920 0001 2086 1768

U.S. Postal ServiceTM
CERTIFIED MAILSM RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com
 CLENDENIN WV 25045

Postage	\$ 11.72	0701
Certified Fee	\$3.10	2E
Return Receipt Fee (Endorsement Required)	\$2.55	Postmark Hwy OCT-9 2013
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 47.37	10/09/2013

Sent To: Daniel and Laura Bodkins
 Street Apt. No. 1 or PO Box No. P.O. Box 847
 City, State, ZIP+4 Clendenin, WV 25045 ✓

PS Form 3800, August 2009 See Reverse for Instructions

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WV Dept. of Environmental Protection

12/13/2013

290638R

WW-2A1
(Rev. 1/11)

Operator's Well Number OSBORNE 2A

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
ALVIN ENGELKE, AGENT	CUNNINGHAM ENERGY, LLC	1/2 OF 1/8	260/431
LINDA OSBORNE	CUNNINGHAM ENERGY, LLC	1/4 OF 1/8	260/775
EMMA JEAN LADD	CUNNINGHAM ENERGY, LLC	1/4 OF 1/8	260/80
	SEE ATTACHED AGREEMENT		

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: RAVEN RIDGE ENERGY, LLC
 By: Its: OFFICER

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Office of Oil and Gas
WV Dept. of Environmental Protection

12/13/2013

AGREEMENT

This agreement is made and entered into this 16th day of February, 2012 by and between Cunningham Energy, LLC, a West Virginia limited liability company and Raven Ridge Energy, LLC, a West Virginia limited liability company.

This agreement gives permission to Raven Ridge Energy to operate any leases (owned property or otherwise leased) maintained by Cunningham Energy, LLC for any and all past, current or future projects to be developed by or for Cunningham Energy, LLC.

CUNNINGHAM ENERGY, LLC

[Signature]
Owner

RECEIVED
Office of Environmental Protection

RAVEN RIDGE ENERGY

[Signature]
Officer

MAR 13 2012

WEST VIRGINIA
ENVIRONMENTAL PROTECTION

State of West Virginia
County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. M. Cunningham, Officer of Raven Ridge Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.

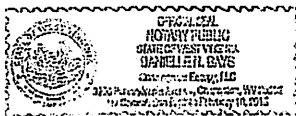


[Signature]
Notary Public

2/10/2015
My Commission Expires

State of West Virginia
County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. M. Cunningham, Owner of Cunningham Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.



[Signature]
Notary Public

2/10/2015
My Commission Expires

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Office of Oil and Gas
WV Dept. of Environmental Protection

12/13/2013

3906348R

WW-9
(5/13)

Page _____ of _____
API Number 47 - 39 -06348
Operator's Well No. OSBORNE 2A

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name RAVEN RIDGE ENERGY, LLC OP Code 494485865

Watershed (HUC 10) SANDY BRANCH OF SANDY CREEK Quadrangle CLENDENIN

Elevation 948' County KANAWHA District BIG SANDY

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 30 mil.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR, FRESH WATER

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? SOAP

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) LIME

-Landfill or offsite name/permit number? CHARLESTON LANDFILL

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

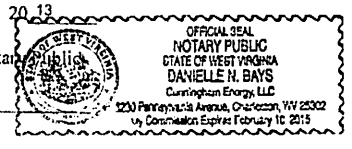
Company Official (Typed Name) RYAN E. M. CUNNINGHAM

Company Official Title OFFICER

Subscribed and sworn before me this 4th day of OCTOBER, 2013

Notary _____

My commission expires 02/10/2015



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WV Dept. of Environmental Protection

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Form WW-9

Operator's Well No. OSBORNE 2A

Proposed Revegetation Treatment: Acres Disturbed 2 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____

Date: 10-4-13

Field Reviewed? Yes No

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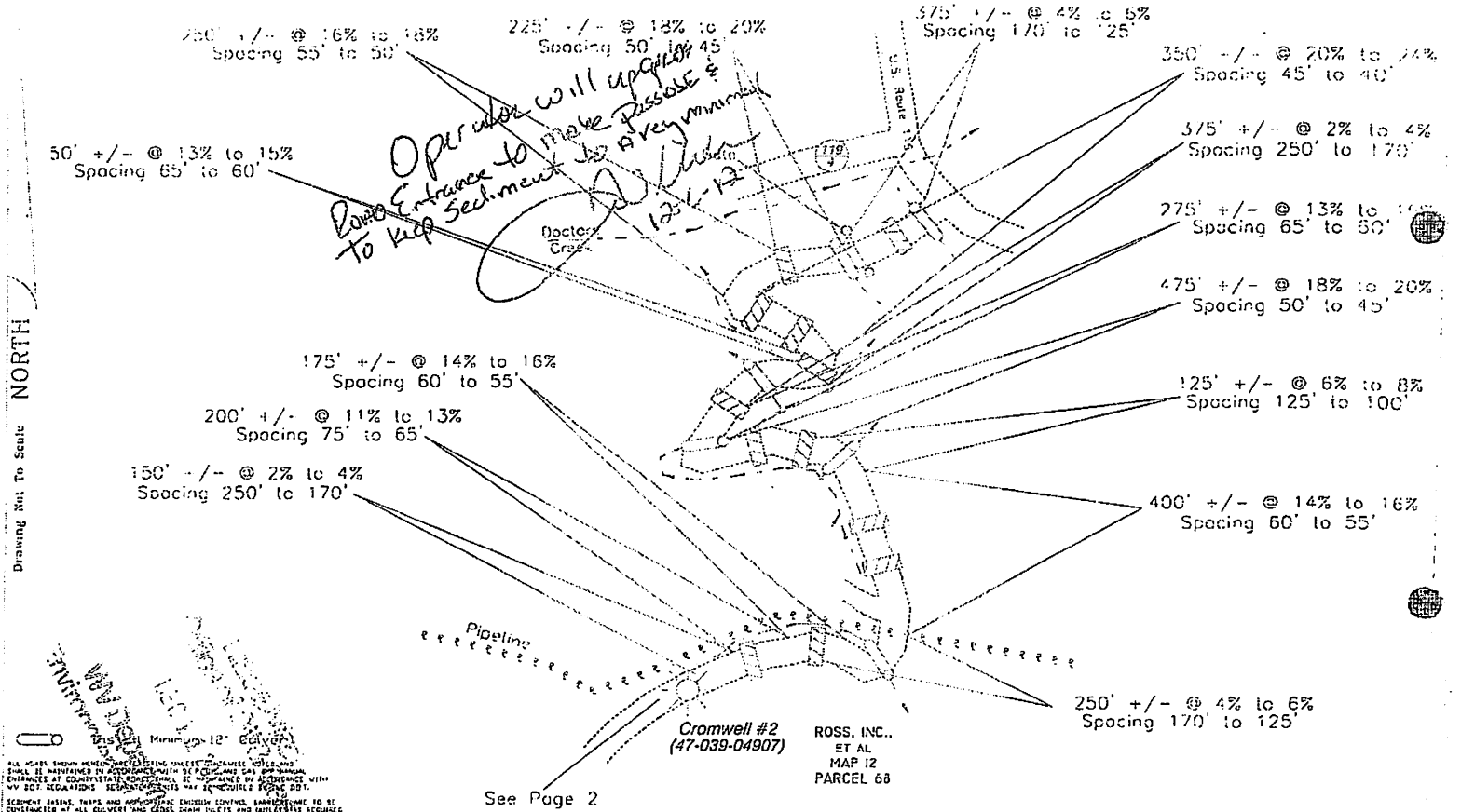
Office of Oil and Gas
WV Dept. of Environmental Protection

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RAVEN RIDGE ENERGY, LLC. Osborne #2A

Form W-9

Page 1 of 3



ALL WORK SHOWN HEREON IS THE PROPERTY OF HUPP SURVEYING & MAPPING, INC. AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE POLICY AND STANDARDS OF HUPP SURVEYING & MAPPING, INC. AS SET FORTH IN THE HUPP SURVEYING & MAPPING, INC. CONTRACT. NO PART OF THIS WORK SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HUPP SURVEYING & MAPPING, INC. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. HUPP SURVEYING & MAPPING, INC. SHALL NOT BE RESPONSIBLE FOR ANY SUCH PERMITS OR APPROVALS. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. HUPP SURVEYING & MAPPING, INC. SHALL NOT BE RESPONSIBLE FOR ANY SUCH PERMITS OR APPROVALS.

HUPP Surveying & Mapping		Drafted BY:	Date Drafted:	Job Number:
P.O. BOX 647 GRANISVILLE, WV 26147		JB	11/28/12	V20122143
PH: (304) 354-7035 FAX: (304) 354-7036				

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Office of Oil and Gas

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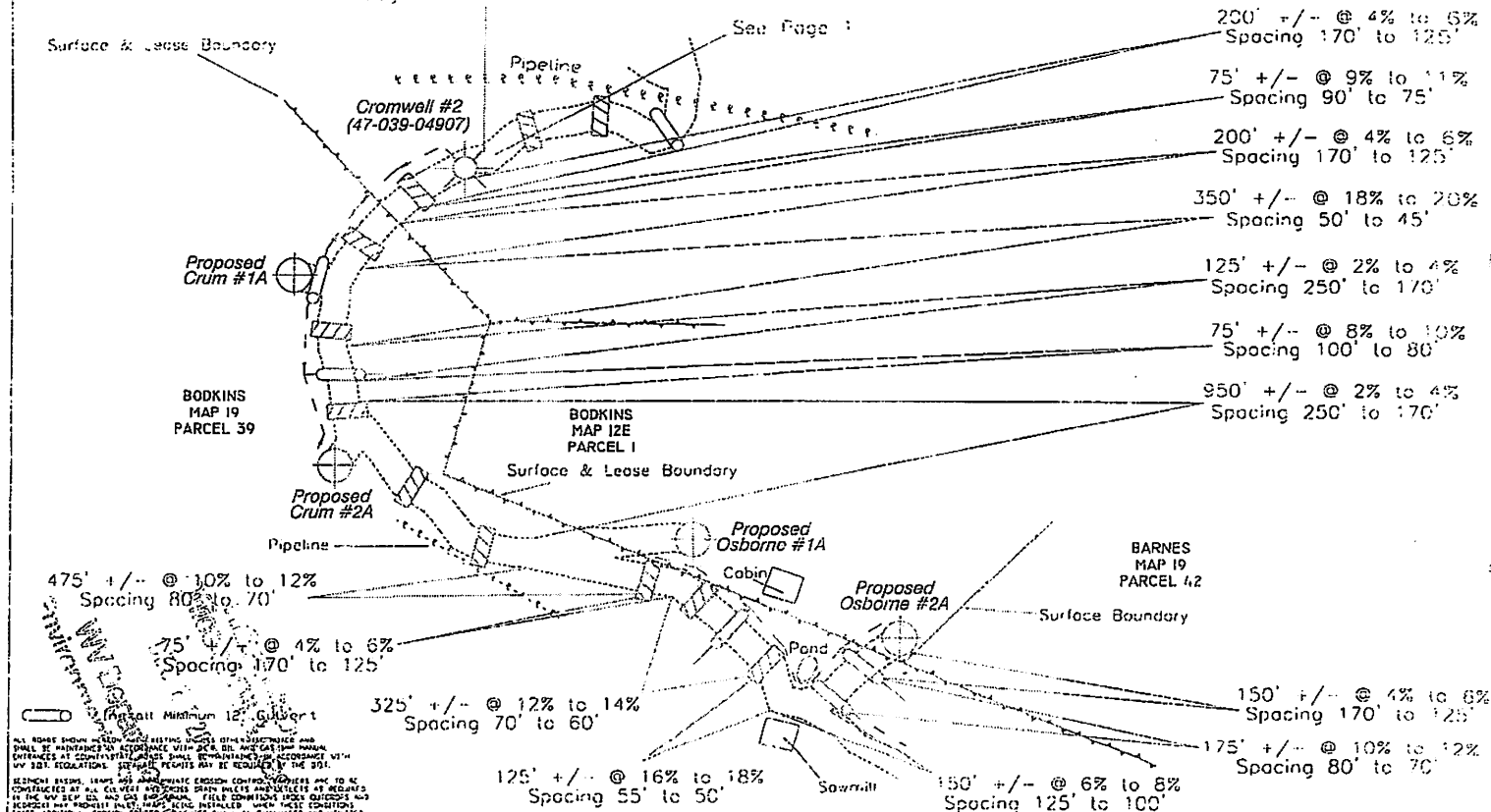
RAVEN RIDGE ENERGY, LLC. Osborne #2A

Form W-9

Page 2 of 3

ROSS, INC.,
ET AL
MAP 12
PARCEL 68

Roads Existing to here.
Begin New Construction.



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE SHOWN AND SHALL BE MAINTAINED ACCORDANCE WITH 20C, 21C, AND 22C OF THE HANDBOOK OF CONSTRUCTION AND SHALL BE MAINTAINED ACCORDANCE WITH ANY STATE REGULATIONS. SEE PLAN FOR DETAILS.

SEEDING, BRUSH, LIMBS AND ANTI-EROSION CONTROL DEVICES ARE TO BE CONTACTED AT ALL CORNERS AND CROSS DRAIN PILES AND SLEETS AS REQUIRED BY THE WV DEP. ALL AND FOR LANDS. FIELD CONDITIONS, LOCAL QUICKS AND LOCAL AND WIND-SETTLED WINDS, BEING INSTALLED UNDER LOCAL CONDITIONS. ERECTION, POSITION, COORDINATES SHALL BE EVALUATED AND VERIFIED.

EXISTING CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING THE OPERATOR AND INSPECTOR PRIOR TO ANY EXCAVATION FROM THIS PLAN.

CONTRACTOR/COMPANY ARE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS ON THIS PLAN OR AS REQUIRED.

THESE SHALL BE SEEN AND CHECKED BY THE OPERATOR WITH CONSTRUCTION OF THE ROAD AND CHECK FOR OTHER UTILITIES BEFORE A GRADIENT AND OTHER WORK BEGINS BELOW GRADE AND BEFORE ANY OTHER WORK.

HUPP Surveying & Mapping		Drafted BY:	Date Drafted:	Job Number:
P.O. BOX 547 GRANISVILLE, WV 26147		SB	11/28/12	W20122143
PH: (304) 354-7035 FAX: (304) 354-7035				

DRAWING NOT TO SCALE NORTH

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 Office of Oil and Gas
 WV Dept. of Environmental Protection

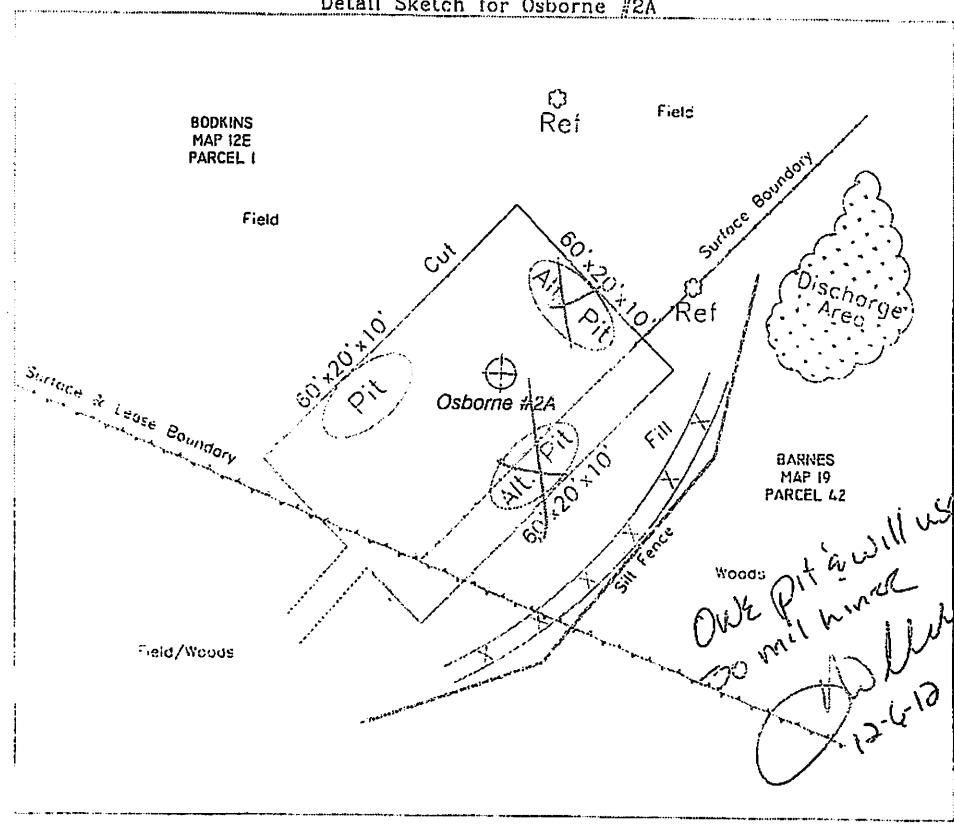
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RAVEN RIDGE ENERGY, LLC. Osborne #2A

Form W-9

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Detail Sketch for Osborne #2A



○ Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS IMP MANUAL ENTRIES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOT.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS IMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

LECT. 11/12/12
 WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	11/28/12	W20122143

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WV Dept. of Environmental Protection

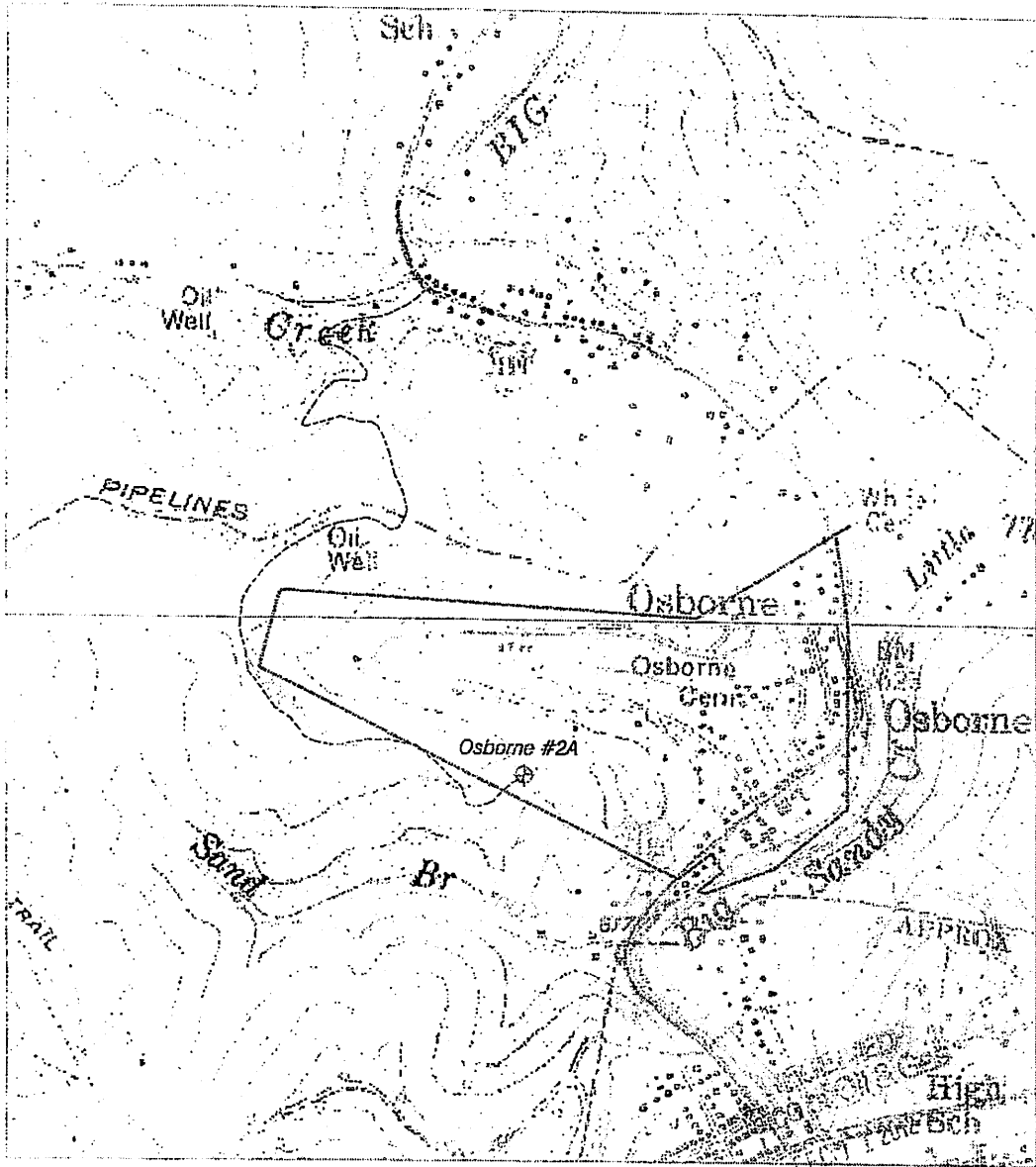
12/13/2013

3906348R

Form W-9

RAVEN RIDGE ENERGY, LLC. OSBORNE #2A

Page 1 of 1



HUPP Surveying & Mapping

P.O. BOX 547 GRANTSVILLE, WV 26147
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
Clendenin Quad

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

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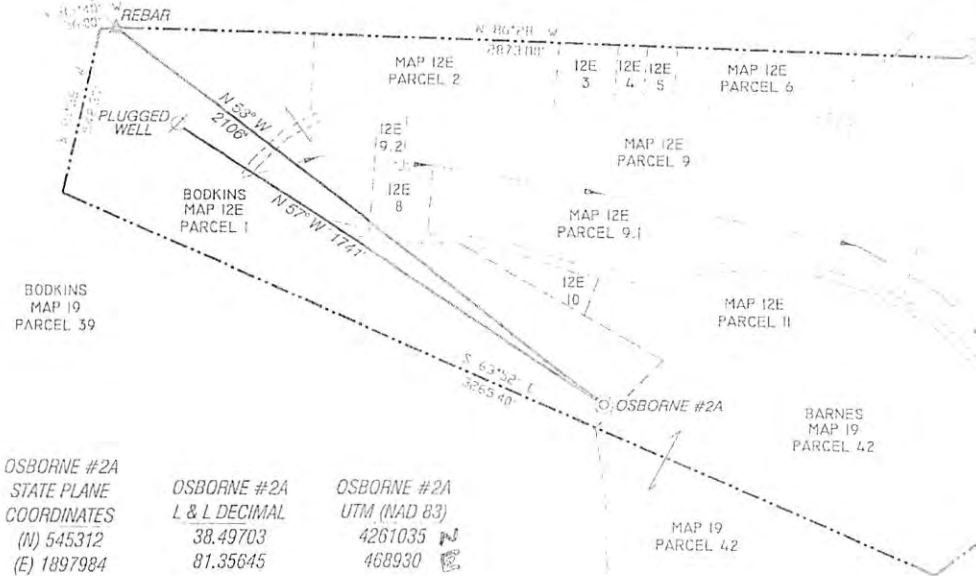
Office of Oil and Gas
WV Dept. of Environmental Protection

12/13/2013

3906348R

OSBORNE #2A

ROSS, INC., ET AL
66.69 ACRES±
MAP 12
PARCEL 6B



OSBORNE #2A STATE PLANE COORDINATES (N) 545312 (E) 1897984	OSBORNE #2A L & L DECIMAL 38.49703 81.35645	OSBORNE #2A UTM (NAD 83) 4261035 N 468930 E
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NOTES

THIS IS TO WELLS AND CORNERS AND BASED ON STATE PLANE GRID NORTH WY SOUTH ZONE NAD 83.
THIS IS TO REFERENCES ARE BASED ON MAGNETIC NORTH 11 28 12.
LEASE BOUNDARY SHOWN HEREON TAKEN FROM A LEGAL DESCRIPTION PROVIDED BY RAVIN RIDGE ENERGY, LLC.
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY DEED RECORDS OF KANAWHA COUNTY IN MAY 2012 AND INFORMATION PROVIDED BY RAVIN RIDGE ENERGY, LLC.
WELL LOCATION ESTABLISHED BY GPS SURVEY & MAPPING GRAPH.

REFERENCES



I, *[Signature]*, being duly sworn, depose and say that this plat is correct and true to my knowledge and belief and shows all the facts and conditions by law and the regulations issued by the State of West Virginia Department of Environmental Protection.

[Signature]
HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
304.334.1625 FAX: 304.334.1624



(1) DENOISE LOCATION OF WELL ON A STATE'S TOPOGRAPHIC MAP
DATE: NOVEMBER 28, 2012
OPERATORS WELL NO. OSBORN 42A
WELL NO. 47 - 039 - 06348R
STATE: WV

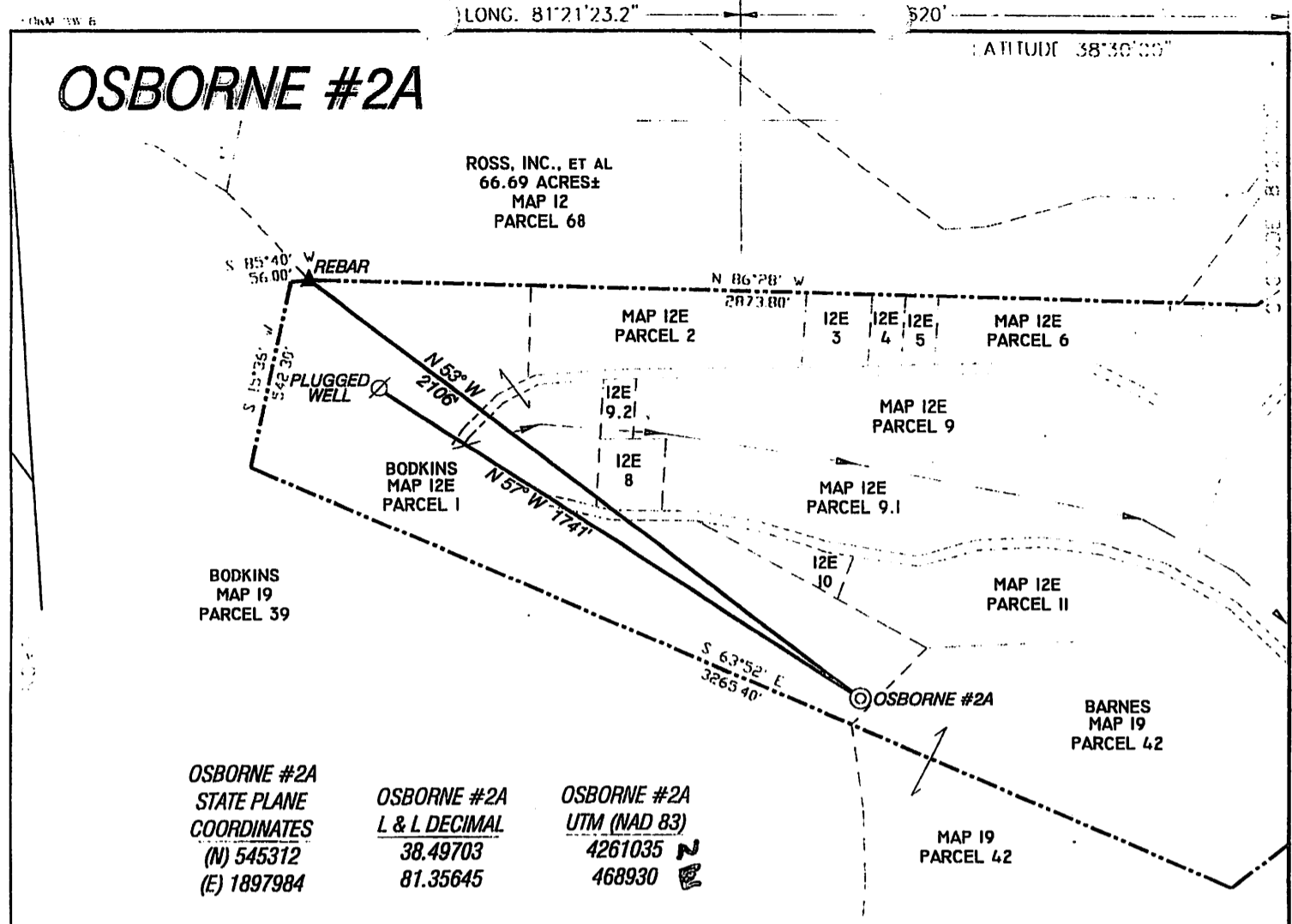
FILE NO. 97-43 (25-5) (3)
SCALE: 1" = 400'
DEPT. (SURFACE GRADE)
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

LIQUID INJECTION	WASTE DISPOSAL	"GAS" PRODUCTION	STORAGE	OTHER	STATUS
WATER	WATER	LAND FILL	DRILL SANDY		
NO LIQUID	NO WASTE	NO GAS	NO STORAGE		
FRANK & LAURA BOBKIN	BOBKIN	KANAWHA	GUARANTEE	CLASS 2	
RAVIN RIDGE ENERGY, LLC	RAVIN RIDGE ENERGY, LLC	RAVIN RIDGE ENERGY, LLC	RAVIN RIDGE ENERGY, LLC	RAVIN RIDGE ENERGY, LLC	
DRILL DEEPER	DRILL DEEPER	FRACURE OR STIMULANT	FRACURE OR STIMULANT	FRACURE OR STIMULANT	
NEW FORMATION	NEW FORMATION	PLUG AND ABANDON	PLUG AND ABANDON	PLUG AND ABANDON	
(SPECIFY)	(SPECIFY)	TARGET FORMATION	TARGET FORMATION	TARGET FORMATION	
		ESTIMATED DEPTH	ESTIMATED DEPTH	ESTIMATED DEPTH	3,000'

RAVIN RIDGE ENERGY, LLC DESIGNATED AGENT RYAN GUNNINGHAM
1240 PENNSYLVANIA AVE CHARLESTON, WV 26032 ADDRESS 4930 PENNSYLVANIA AVE CHARLESTON, WV 26032

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 Office of Oil and Gas
 West Virginia Department of Environmental Protection

12/13/2013



OSBORNE #2A

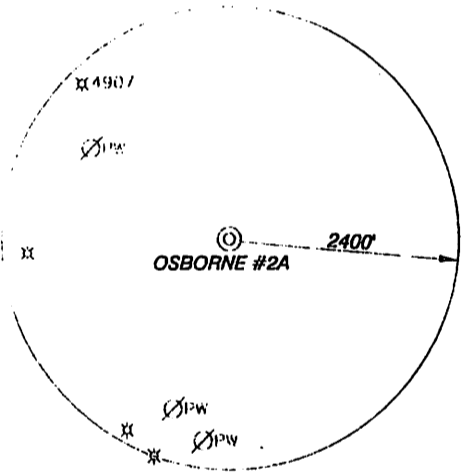
LONG. 81°21'23.2" 520' LATITUDE 38°30'00"

ROSS, INC., ET AL
66.69 ACRES±
MAP 12
PARCEL 68

OSBORNE #2A
STATE PLANE
COORDINATES
(N) 545312
(E) 1897984

OSBORNE #2A
L & L DECIMAL
38.49703
81.35645

OSBORNE #2A
UTM (NAD 83)
4261035 N
468930 E



NOTES

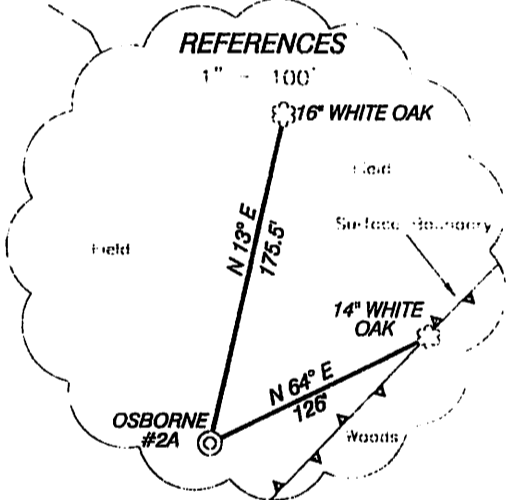
TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD 83.

TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 11-28-12.

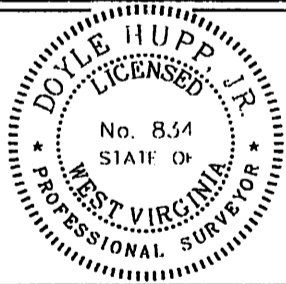
LEASE BOUNDARY SHOWN HEREON TAKEN FROM A LEGAL DESCRIPTION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

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 1A1/10NG, ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).



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.
HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
(304) 554-7035 EMAIL: hupp@frontiernet.net

(+) DENOTES LOCATION OF WELL ON ON STATE'S TOPOGRAPHIC MAPS
DATE NOVEMBER 28, 2013
OPERATORS WELL NO. OSBORNE #2A
API WELL NO. 47-039-06348R
STATE COUNTY

MINIMUM GRID OF ACCURACY 1/200 FILE NO W2143 (BK 63-8)
SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 100'

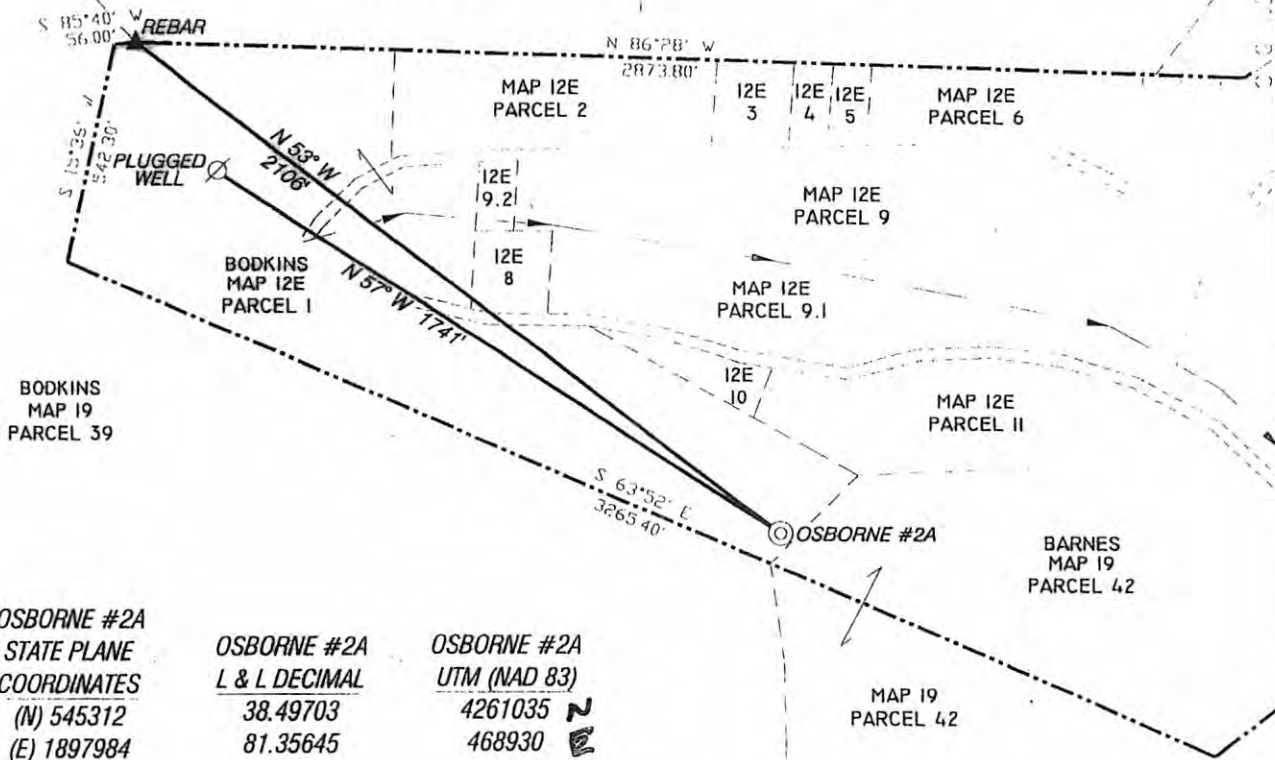
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE	<input checked="" type="checkbox"/> GAS	<input type="checkbox"/> LIQUID INJECTION	<input type="checkbox"/> WASTE DISPOSAL	<input type="checkbox"/> IF "GAS" PRODUCTION	<input checked="" type="checkbox"/> STORAGE	<input type="checkbox"/> DEEP	<input checked="" type="checkbox"/> SHALLOW		
LOCATION	VA. ZON 846' WATERSHED SAND BRANCH OF BIG SANDY CREEK								
	DISTRICT BIG SANDY		COUNTY KANAWHA		QUADRANGLE	CLINTON NW 7 1/2			
SURFACE OWNER	DANIEL & LAURA BODKINS				ACREAGE	25.861			
ROYALTY OWNER	ALVIN ENGELKE - AGENT, et al				LEASE ACREAGE	124.81 12/13/2013			
PROPOSED WORK:	LEASE NO. _____								
DRILL	<input checked="" type="checkbox"/> CONVERT	<input type="checkbox"/> DRILL DEEPER	<input type="checkbox"/> REDRILL	<input type="checkbox"/> FRACTURE OR STIMULATE	<input checked="" type="checkbox"/> PLUG OFF OLD FORMATION	<input type="checkbox"/> PERFORATE NEW FORMATION	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> CLEAN OUT AND REPLUG	<input type="checkbox"/> 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

OSBORNE #2A

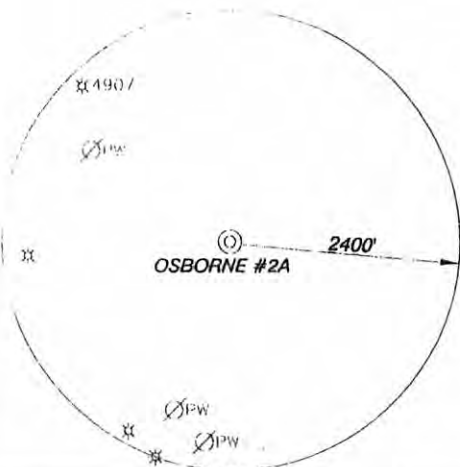
ROSS, INC., ET AL
66.69 ACRES±
MAP 12
PARCEL 68



OSBORNE #2A
 STATE PLANE
 COORDINATES
 (N) 545312
 (E) 1897984

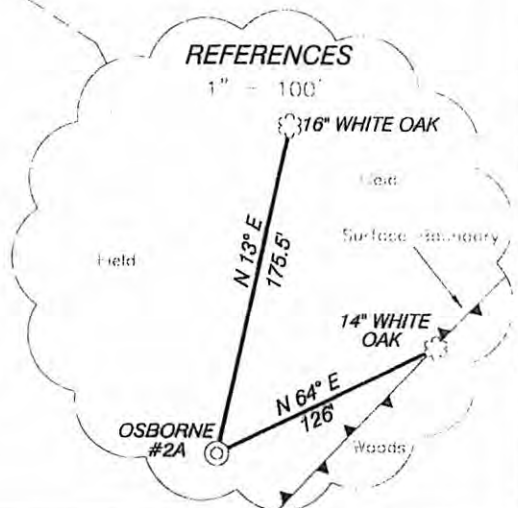
OSBORNE #2A
 L & L DECIMAL
 38.49703
 81.35645

OSBORNE #2A
 UTM (NAD 83)
 4261035
 468930



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 11-28-12.
 LEASE BOUNDARY SHOWN HEREON TAKEN FROM A LEGAL DESCRIPTION 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)



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.

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



(+) DENOTES LOCATION OF WELL ON U.S. STATES TOPOGRAPHIC MAPS
 DATE NOVEMBER 28, 2010
 OPERATORS WELL NO. OSBORNE #2A
 API WELL NO. 47-039-06348R
 STATE COUNTY WV

MINIMUM DIAPHRAGM ACCURACY 1/200 FILE NO. W2143 (BK 63-8)
 HORIZONTAL SOURCE FROM SOURCE SCALE 1" = 100'
 ELEVATION DGPS (SUBMETER GRADE)

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

WELL TYPE	<input checked="" type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS	LIQUID INJECTION	<input type="checkbox"/>	WASTE DISPOSAL	<input type="checkbox"/>	IF "GAS" PRODUCTION	<input checked="" type="checkbox"/>	STORAGE	<input type="checkbox"/>	DEEP	<input type="checkbox"/>	SHALLOW	<input checked="" type="checkbox"/>
LOCATION	VA. ZON	846'	WATERSHED	SAND BRANCH OF BIG SANDY CREEK	DISTRICT	BIG SANDY	COUNTY	KANAWHA	QUADRANGLE	GLENDEN 7 E			
SURFACE OWNER	DANIEL & LAURA BODKINS		ACREAGE	25.861									
ROYALTY OWNER	ALVIN ENGELKE AGENT, et al		LEASE ACREAGE	124.81									
PROPOSED WORK	DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> RE-DRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/> OTHER <input type="checkbox"/>		LEASE NO.										
PHYSICAL CHANGE IN WELL (SPECIFY)			TARGET FORMATION	HERFA									
			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

12/13/2013

39 06348R

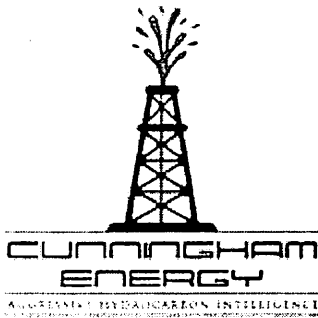
Nottingham, Justin E

From: Danielle Boggs <dani.bays@cunninghamenergy.com>
Sent: Monday, November 25, 2013 9:06 AM
To: Nottingham, Justin E
Subject: Osborne 2A/47-3906348
Attachments: SKMBT_C35131125082800.pdf

Please see attached re-permit for 47-3906348.

I will forward an original Mylar.

Thank you,
Danielle N. Boggs
Cunningham Energy
3230 Pennsylvania Ave
Charleston, WV 25302
Direct: (304) 344-9291
Cell: (304) 553-5850
Fax: (304) 344-9290
www.cunninghamenergy.com



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WV Dept. of Environmental Protection