

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

PERMIT MODIFICATION APPROVAL

June 26, 2013

RAVEN RIDGE ENERGY 3230 PENNSYLVANIA AVENUE CHARLESTON, WV 25302

Re: Permit Modification Approval for API Number 3906348 , Well #: OSBORNE 2A RUN 1997' of 4 1/2" & FRAC

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Regulatory/Compliance Manager

Office of Oil and Gas





June 26, 2013

James Martin, Chief DEP - OOG

> Re: Osbourne 2A API #47-39-06348

Dear Mr. Martin

We are writing this e-mail in regards to the receipt of a violation dated June 24, 2013 on the above referenced well. The violation was a result of Cunningham Energy not following the conditions of our original permit.

This well was permitted to be shot however after further evaluation of the well's log, it became apparent that shooting the well would not be sufficient for yielding the greatest results. Upon this discovery the decision was made to run 4 ½" pipe so that the well could be stimulated and fracked on a later date. We were unaware that we needed to contact an inspector before running the 4 ½" pipe. We were under the impression that notifying an inspector within 48 hours of the frac would be sufficient. Cunningham Energy notified Inspector Urban, on June 24th that we intended to frac the well on June, 28th. Please see attached an amended WW-2B with regard to this change.

We request to frac this well on June 28, 2013, this pit has been closed in and we plan to blow the well back into the frac tanks which are already set on location.

We apologize for the misunderstanding and inconvenience, and ask that this letter and attached corrected WW-2B serve as a request for modification of our original permit as well as abate this violation.

Thank you for your consideration.

Regards,

Ryan E. M. Cunningham

President

Cunningham Energy, LLC

3230 Pennsylvania Ave.

Charleston, WV 25302 (304) 344-9291

Cc: Terry Urban

Received Office of Oil & Gas WW - 2B (Rev. 8/10)

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

		IN KIDGE	EENERGY	494485865	KANAHWA(39)	BIG SANDT (1)	CLENDENIN (299)
				Operator ID	County	District	Quadrangle
2) Operator's Well	Numb	er: OSB	ORNE 2A		3) Elevation: <u>{</u>	846'	
4) Well Type: (a) C	Dil_X_	or Ga	s <u>X</u>				
(b) If	f Gas:	Produ	ction X_/Unc	lerground Sto	rage	_	
		Deep	/ s	hallow X	_		
5) Proposed Targe 6) Proposed Total 7) Approximate fre 8) Approximate sa	Depth: esh wat	2400' er strata	Feet I depths: 150'	Formation at F	Proposed Targ Proposed Tota	get Depth: 2 Il Depth: 2,00	100'
9) Approximate co	al sear	n depths	: NO COAL LI	STED ON TIT	LE		
10) Approximate v	oid de	oths,(coa	al, Karst, other):	NONE			
11) Does land con	ntain co	al seam	s tributary to act	ive mine?	10		
12) Describe propos				ods in detail (a	1	\ / / Mull	eded)
					Muy 6	J6:13	
13)			SING AND TU				
TYPE SPE	ECIFIC.	ATIONS		FOOTAGE	INTERVALS		
<u>s</u>	<u>ize</u>	<u>Grade</u>	Weight per ft	For Drilling	<u>Left in Well</u>	Fill -up (Cu	<u>. Ft.)</u>
Conductor							
Fresh Water 9	5/8'	LS	17LBS	350'	350'	CTS	3
Coal							
Intermediate	7"	J55	23LBS	1,850'	1,850'	СТ	3
Production 4	1/2"	N80	1160LBS	1997'	1997'	150)
Tuhing				Office	Received of Oil & Ges		
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Liners					1		
Liners					``		



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 28, 2012

WELL WORK PERMIT

Vertical Well

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 of completion of drilling, 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: Vertical Well

Date Issued: 12/28/2012

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. Operator must use a 7" frac valve to control the well shot.

3906348

TORPEDO SERVICES, INC.

Oil, Gas, & Water Well Shooting

165 Country Club Road Beattyville, KY 41311

Phone: 606 464-9696

Listed below are the steps and process that we will use in shooting the M. Bird 1A, Crum 1A, Crum 2A, Crum 3A,

Osborne 1A, and Osborne 2A.

The wells will be backfilled with pea gravel. We will be shooting and adding water in the hole to wash down any

debris that might have stuck to the bore of the well when the gravel was placed in the hole. Then we will place 10 ft.

x 5 inch diameter shells in the hole. Each shell will contain a mixture of ammonium nitrate and nitromethane, and

will weigh approximately 120 lbs. On the top of each shell will be a one lb. cast booster. Each 10 ft. shell will be

lowered in the hole individually. After we have all of the shells in the hole, we will add fresh water in the hole to act

as a tamp for the shot. Then we will screw the shot diverter into the pipe. I will make up the charge to detonate the

explosives in the hole. That charge will contain 5 one pound cast boosters. There will be 2 electric blasting caps

inserted into the boosters, then attached to a electric duplex 20 gauge wire. That wire will be lowered into the hole

and will sit on top of the charges in the hole. The diverter will be aimed towards the pit and when everyone is ready,

the shot will be detonated. The fluid should come out of the hole and the diverter will divert the water into the pit.

7" FRAC VALUE WILL BE USED

WHILE SHOOTING.

Office of Oil & Gas

DEC 1 1 2012

WV Department of Environmental Protection

WW-2	2A
(Rev.	6-07)

1). Date:	11/30/2012		
2.) Operator's \	Well Number	OSBORNE #2A	
	State	County	Permit
3 \ A DI MAII NA	. 47-		

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

Address	DANIEL AND LAURA BOD P.O. BOX 847	KING	The state of the s
(b) Name	10 POV 947	KINS	Name
(b) Name	7.U. BUX 647		Address
	CLENDENIN, WV 25045		
Address			(b) Coal Owner(s) with Declaration
			Name
			Address
(a) Name			News
(c) Name			Name
Address _			Address
6) Inspector	TERRY URBAN		(c) Coal Lessee with Declaration
	P.O. BOX 847		Name
(CLENDENIN, WV 25045		Address
Telephone (304) 549-5915		
-	TO THE I	PERSONS NA	MED ABOVE TAKE NOTICE THAT:
Included is the			contract or contracts by which I hold the right to extract oil and gas
OR			
×	Personal Service Certified Mail (F Publication (No and understand C pplication.	ce (Affidavit attac Postmarked post tice of Publicatio hapter 22-6 and	tal receipt attached)
I certify und this application form obtaining the inform I am aware imprisonment.	m and all attachmenation, I believe that there are sign	ents, and that ba t the information nificant penalties Well Operator By:	ased on my inquiry of those individuals immediately responsible for a strue, accurate and complete. If for submitting false information, including the possibility of fine and CUNNINGHAM ENERGY LLC, AKA, RAVEN RIDGE ENERGY LLC RYAN CUNNINGHAM
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Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

SENDER GOVIDUERS THIS S		GONDATE THE SECTION ON OTHE	Many
 Complete Items 1, 2, and 3. A item 4 if Restricted Delivery is Print your name and address so that we can return the card Attach this card to the back o or on the front if space permit 	desired. on the reverse I to you, I the mailplace	A. Signature A. Signature	Agent Agent Addresse C. Date of Deliver
1. Article Addressed to: Leslie & Connie As 43 Doctors Creek Clendenin, WV 2	hley - Robol	D. Is delivery address different from iten If YES, enter delivery address below	112 T Yes
		insured Mail L C.O.D.	pt for Merchandise
2. Articlo Number	M.BIFD	4. Restricted Delivery? (Extra Fee)	☐ Yes
(Transfer from service label)	2077 9	2000 0001 0375 4861	
S Form 3811, February 2004	Domestic Re		102595-02-M-1540
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or FO Box No. DO 1	BOX 847		

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, ARA RAVEN RIDGE ENERGY LLC	1/2 OF 1/8	260/431
LINDA OSBORNE	CUNNINGHAM ENERGY LLC, ARA RAVEN RIDGE ENERGY LLC	1/4 OF 1/8	260/775
EMMA JEAN LADD	CUNNINGHAM ENERGY LLC, AKA, RAVEN RIDGE ENERGY LLG	1/4 OF 1/8	260/80

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 he reby a cknowledges 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 ac quired from the appr opriate aut hority before the af fected activity is initiated.

Well Operator:

By: Its:

CUNNINGHAM ENERGY LLC, AKA, RAVEN RIDGE ENERGY LLC

RYAN CUNNINGHAM

OFFICER

OSBORNE # 2A

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. AND TOWER RIDGE ENERGY LLC.	1/2 OF 1/8	260/431
LINDA OSBORNE	CUNNINGHAM ENERGY LLC, 1904-PAWEN RIDGE ENERGY LLC	1/4 OF 1/8	260/775
EMMA JEAN LADD	CUNNINGHAM ENERGY LLC, AVA-PAVEN RIDGE ENERGY-LLO	1/4 OF 1/8	260/80

Raven Ridge Energy has the right to operate Cunningham Energy, LLC's lease by contractual arrangement.

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

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Well Operator: By:Its:

CUNNINGHAM ENERGY LLC, AKA, RAVEN RIDGE ENERGY LLC
RYAN CUNNINGHAM
OFFICER

WW.	-2B1
(5-1)	2)

o. OSBORNE #2A
O. OSBORNE #2A

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name STURM ENVIRONMENTAL

Sampling Contractor HUPP SURVEYING

Well Operator CUNNINGHAM ENERGY LLC, AKA, RAVEN RIDGE ENERGY LLC

Address 3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone (304) 344-9291

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

office of Oil 8 Gas

Office of Oil 8 Gas

WV Department of the order o

HUPP Surveying & Mapping

P.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035 hupp@frontiernet.net FAX: (304) 354-6548

November 29, 2012

RE: Water Samples for Osborne #2A

There appears to be thirty (30) potable water source within 1,500' of Osborne #2A, therefore tests should be offered and samples taken as required.

- Daniel & Laura Bodkins P.O. Box 847 Clendenin, WV 25045 Tax Map 12E Parcel 1
- Hershel & Dorothy Harris-Trustees 2020 Benjamin Rd. Malabav, FL 32950 Tax Map 12E Parcel 2
- Cledith & Donna Hinchman 85 Spencer Rd. Clendenin, WV 25045 Tax Map 12E Parcel 9
- Dalman Jett
 744 Pigeon Rd.
 Procious, WV 25164
 Tax Map 12E Parcel 8
- Glenn Vicks

 14444 Black Lake Rd.
 Thomasville, NC 27360
 Tax Map 12E Parcel 9.1
- Mary & Douglas Hunt 2240 Highway 701 N Loris, SC 29569 Tax Map 12E Parcel 11
- 7. Michael Cahill P.O. Box 157 Clendenin, WV 25045 Tax Map 19 Parcel 41



- William & Charlotte Barnes
 P.O. Box 1615
 Clendenin, WV 25045
 Tax Map 19 Parcel 42
- 9. Cathy Null P.O. Box 733 Clendenin, WV 25045 Tax Map 12E Parcel 12
- 10. Paul Yoak44 Spencer Rd.Clendenin, WV 25045Tax Map 19E Parcels 1 & 1.1
- 11. Juanita Plumley 4700 Ridge Rd. Clendenin, WV 25045 Tax Map 19E Parcel 3
- 12. Willie & Ruth Icenhower
 P.O. Box 393
 Clendenin, WV 25045
 Tax Map 19E Parcels 4, 5, 6, 7.1 & 8
- 13. Frank Taylor & Kenneth SloanP.O. Box 384Clendenin, WV 25045Tax Map 19E Parcel 8.1
- 14. Kenneth Sloan P.O. Box 384 Clendenin, WV 25045 Tax Map 19E Parcel 9
- 15. Paul & Janet Keiffer36 Spencer Rd.Clendenin, WV 25045Tax Map 19E Parcels 10 & 11
- 16. John & Diane Payne41 Spencer Rd.Clendenin, WV 25045Tax Map 19E Parcel 14

Office of Oil 8 Gesting of the Chilon

- 17. Philip Winkler40 B Spencer Rd.Clendenin, WV 25045Tax Map 19E Parcel 13
- 18. Robert Robinson P.O. Box 1552 Clendenin, WV 25045 Tax Map 19E Parcel 7
- 19. Paula Darnell 30 Spencer Rd. Clendenin, WV 25045 Tax Map 19E Parcels 46.1 & 46.2
- 20. Nida Hascue210 Pine CirDunbar, WV 25064Tax Map 19E Parcel 46
- 21. Thomas & Annie Cook 2516 County Rd 2334 Como, TX 75431 Tax Map 19E Parcel 47
- 22. Patrick Schoonover HC 74 Box 81 Bomont, WV 25030 Tax Map 19E Parcel 48
- 23. Kenneth HarperP.O. Box 1582Clendenin, WV 25045Tax Map 19E Parcel 49
- 24. Michael Cahill P.O. Box 157 Clendenin, WV 25045 Tax Map 19 Parcel 41
- 25. Shana Ellis P.O. Box 1358 Clendenin, WV 25045 Tax Map 19 Parcel 42.1
- 26. Jeffrey & Crystal MilamP.O. Box 958Clendenin, WV 25045Tax Map 12D Parcel 23

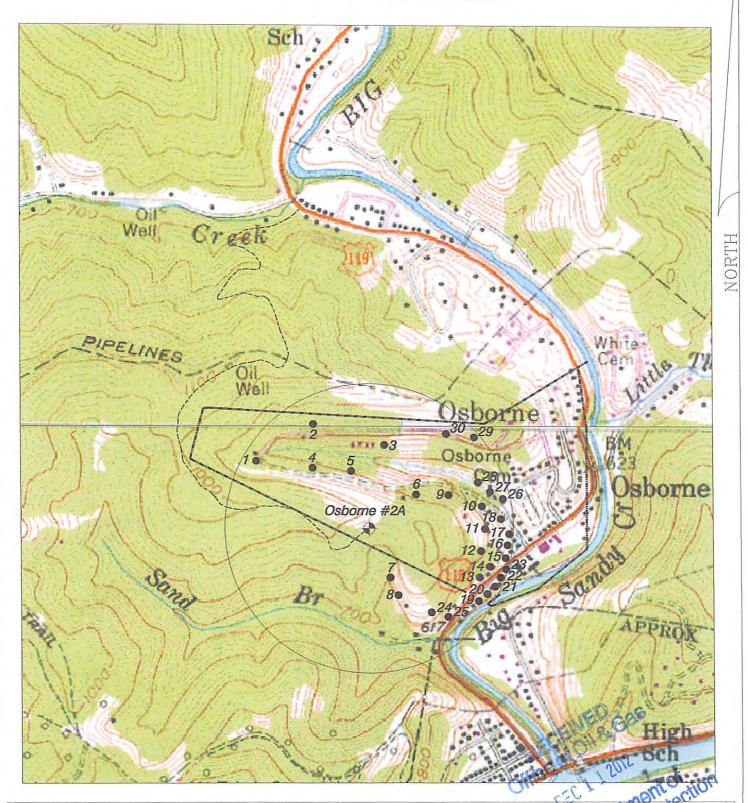


- 27. Barbara Jones 50 Valley Dr. Clendenin, WV 25045 Tax Map 12D Parcel 22.1
- 28. William Gunnoe P.O. Box 1172 Clendenin, WV 25045 Tax Map 12D Parcel 22
- 29. Larry Bowen 4844 Chimney Dr. Charleston, WV 25302 Tax Map 12D Parcels 2 & 3
- 30. Slack Groups LLC 30 Wingfield LN Elkview, WV 25071 Tax Map 12D Parcel 1

Form W-9

RAVEN RIDGE ENERGY, LLC. OSBORNE #2A Water

Page 1 of 1



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH:(304)354-7035 E-MAIL: hupp@frontiernet.net 1" = 1000' Clendenin Quad Raven Ridge Energy, LLC. 3230 Pelinsylvania Ave. Charleston, WV 25302

DB

P.O. BOX 647 CRANTSVILLE, WV 26147

PH: (304)354-7035 E-MAIL: hupp@irontiernet.net

RAVEN RIDGE ENERGY, LLC.

Osborne #2A

Form W-9

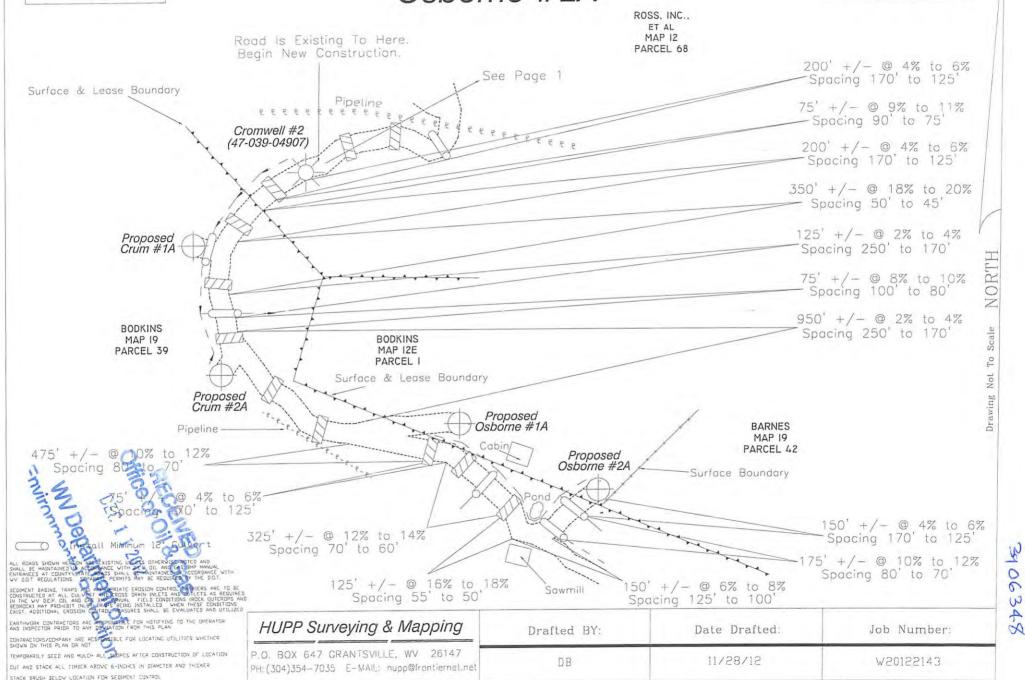
Page 1 of 3

39 06 34-8

W20122143

375' +/- @ 4% to 6% Spacing 170' to 125'

Page 2 of 3



Form W-9

RAVEN RIDGE ENERGY, LLC. Osborne #2A

Page 3 of 3

Detail Sketch for Osborne #2A Field BODKINS MAP 12E PARCEL I Field Surface & Lease Boundary BARNES Owe Pitawill use Owe Pitawill use Do mi no 11, h MAP 19 Field/Woods

Install Minimum 12" Culvert

SEDIMENT BASINS, TRAPS AND APPROPRIATE ERDSIDN CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS BRAIN INLETS AND DUTLETS AS REQUIRED IN THE VV DEP. BIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK DUTCROPS AND BEDROCKS MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL ERDSIDN CONTROL MEASURES SHALL BE EVALUATED AND LITERARD.

EARTHVORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERANDS. LEC. 1 I YU.L

P.O. BOX 647 GRANTSVILLE, WV 26147 PH:(304)354-7035 E-MAIL: hupp@frontiernet.net	DB	11/28/12	w06/28/2013
HUPP Surveying & Mapping	Drafted BY:	Date Drafted:	Job Number:
	SHOWN ON THIS PLAN OR NOT. TEMPORARILY SEED AND MULCH ALL SLO CUT AND STACK ALL TIMBER ABOVE 6-1 STACK BRUSH BELOV LOCATION FOR SEE	PES AFTER CONSTRUCTION OF LOCATION NCHES IN DIAMETER AND THICKER. UNENT CONTROL.	Department of
	EARTHWORK CONTRACTORS ARE RESPONSE AND INSPECTOR PRIOR TO ANY DEVIATION CONTRACTORS/COMPANY ARE RESPONSED.	N FROM THIS PLAN	67:100
	EXIST. ADDITIONAL EROSION CONTROL ME	ASURES SHALL BE EVALUATED AND UTTURAD	and the second

WW-9 Rev. 5/10

	Page _		of	
API Number 47 -		-		
Operator's Well N	O. OSBOF	RNE #2A		

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Vatershed SAND BRANCH OF E	BIG SANDY CREEK	_ Quadrangle	CLENDENIN	
Elevation 978'	County KANAWHA		District BIG SANDY	
Description of anticipated Pit	Waste: WATER AND SOAP			
Do you anticipate using more	than 5,000 bbls of water to comple	ete the proposed	well work? Yes	No X
Vill a synthetic liner be used	in the pit? YES . If	so, what mil.?	30	
Proposed Disposal Method Fo				
	nd Application			
Un	derground Injection (UIC Permit use (at API Number	Number		
Re	f Site Disposal (Supply form WW-	9 for disposal 1	ocation)	
	ner (Explain			

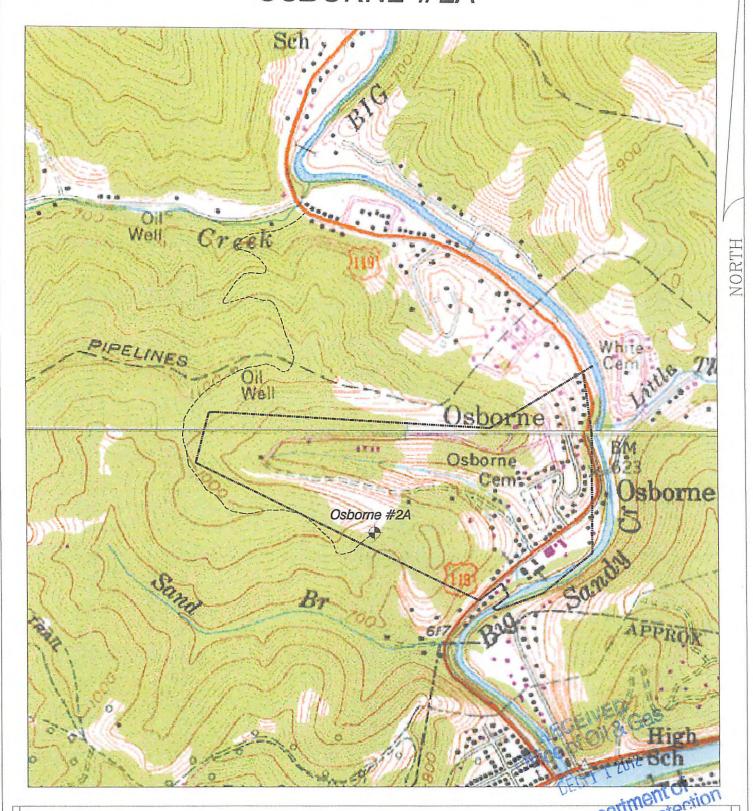
Orilling medium anticipated f	or this well? Air, freshwater, oil b	ased, etc. AIR, FI	RESHWATER	
-If oil based, what ty	or this well? Air, freshwater, oil b pe? Synthetic, petroleum, etc			
additives to be used? SOAP				
Vill closed loop system be us	ed ?			
Drill cuttings disposal method	? Leave in pit, landfill, removed of	offsite, etc.		
	to solidify what medium will be u			
		isca: Cement,	ime, sawdust	
	ame/permit number?			
I certify that I underson August 1, 2005, by the Officerovisions of the permit are easy or regulation can lead to a I certify under penal application form and all attrobtaining the information, I penalties for submitting false	stand and agree to the terms and conce of Oil and Gas of the West Virenforceable by law. Violations of enforcement action. Ity of law that I have personally archments thereto and that, based believe that the information is trinformation, including the possibil	onditions of the ginia Departme any term or co examined and on my inquir ue, accurate, a	GENERAL WATER POI nt of Environmental Prote ndition of the general per am familiar with the info y of those individuals im nd complete. I am aware	LUTION PERMIT ction. I understand nit and/or other app ormation submitted amediately responsi
I certify that I underson August 1, 2005, by the Official Signature_	stand and agree to the terms and conce of Oil and Gas of the West Virenforceable by law. Violations of enforcement action. Ity of law that I have personally achments thereto and that, based believe that the information is trinformation, including the possibil	onditions of the ginia Departme any term or co examined and on my inquir ue, accurate, a	GENERAL WATER POI nt of Environmental Prote ndition of the general per am familiar with the info y of those individuals im nd complete. I am aware	LUTION PERMIT ction. I understand to the tion and/or other apportant of the tion of the tion and the tion of the t
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I certify that I underson August 1, 2005, by the Officerovisions of the permit are of the permit are of the control of the permit are of t	stand and agree to the terms and conce of Oil and Gas of the West Virenforceable by law. Violations of enforcement action. Ity of law that I have personally achments thereto and that, based believe that the information is transformation, including the possibil time) RYAN CUNNINGHAM ER	examined and on my inquir ue, accurate, an ity of fine or im	GENERAL WATER POInt of Environmental Protect and ition of the general period am familiar with the information of those individuals in a complete. I am aware prisonment.	LUTION PERMIT ction. I understand to mit and/or other approximation submitted amediately responsive that there are sign

	LEGEND
Property Boundary	Diversion (1:11111111111111111111111111111111111
Road = = = = = = = = =	Spring O
Existing Fence — X — X — X	— Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream	Waterway C+ C+ C+
Open Ditch	Cross Drain
Rock & See See	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Distur	rbed 3.5 Prevegetation pH
Lime 3 Tons/acre or to	
11'	STON
Fertilizer (10-20-20 or equivalent) 1/3	lbs/acre (500 lbs minimum)
Mulch HAY 2	Tons/acre
	Seed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
KY 31 40	ORCHARD GRASS 15
ALSIKE CLOVER 5	ALSIKE CLOVER 5
ANNUAL RYE 15	
Attach:	
Drawing(s) of road, location,pit and proposed are	ea for land application.
Photocopied section of involved 7.5' topographic	e sheet.
A 1/1/	
Plan Approved by: / / / / / / / / / / / / / / / / / / /	an SEIVE GOS
Comments: Operate Will up	GIADE From Extrance to Make room passable and
Rup Crosion to a VUI	y Mining Office 1/2010 of ion
7 + A10'1	artine otecho
Title: NEPUCH CONS COPS	Date: 12 612
Field Reviewed? () Yes	Date: 12612 WV Departmental Drotection
ricia neviewed:	() No =nviron

Form W-9

RAVEN RIDGE ENERGY, LLC. OSBORNE #2A

Page 1 of 1



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net 1" = 1000' Clendenin Quad Raven Ridger Energy, LLC. 3230 Pennsylvania Ave. Charleston, WV 25302

