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

November 20, 2013

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-3906354, 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: WHITE #1A
Farm Name: TEX SEABOLT
API Well Number: 47-3906354
Permit Type: Re-Work
Date Issued: 11/20/2013

11/22/2013

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. 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.

2. Well work activities shall not constitute a hazard to the safety of persons.

3906354R

WW - 2B
(Rev. 8/10)

3906354

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	BLUE CREEK - 258
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: WHITE 1A 3) Elevation: 839'

4) Well Type: (a) Oil X or Gas X

(b) If Gas: Production X / Underground Storage _____

Deep _____ / Shallow X

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

10-4-13

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
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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WV Dept. of Environmental Protection

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Office of Oil and Gas

NOV 20 2013

WV Department of
Environmental Protection

3906354R

CHECK #8316
$2200.00
4 PERMITS

WW-2A
(Rev. 6-07)

1). Date: OCTOBER 4, 2013

2.) Operator's Well Number WHITE 1A

3.) API Well No.: State 47- County 39 - Permit 6354

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

4) Surface Owner(s) to be served:
(a) Name TEX SEABOLT
Address 669 JORDAN CREEK ROAD
ELKVIEW, WV 25071
(b) Name
Address
(c) Name
Address

6) Inspector TERRY URBAN
Address PO BOX 1207
CLENDENIN, WV 25045
Telephone (304) 549-5915

5) (a) Coal Operator
Name
Address
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

___ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

_____ Personal Service (Affidavit attached)
__x__ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

Well Operator RAVEN RIDGE ENERGY, LLC
By: RYAN CUNNINGHAM
Its: OFFICER
Address 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302
Telephone (304) 344-9291

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

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

Danielle N. Bays Notary Public

My Commission Expires 2/10/2015

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. 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 deprivacyofficer@wv.gov

11/22/2013

3906354 R

WW-2A1
(Rev. 1/11)

Operator's Well Number WHITE 1A

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
IRENE RUNYON	CUNNINGHAM ENERGY, LLC SEE ATTACHED AGREEMENT	1/8	261/287

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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OCT 15 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

11/22/2013

3906354R

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

Owner

RAVEN RIDGE ENERGY

Officer

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
1230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
1230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

Notary Public

2/10/2015
My Commission Expires

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NOV 20 2013

WV Department of Environmental Protection

3906354R

WW-9
(5/13)

Page _____ of _____

API Number 47 - 39 -06354

Operator's Well No. WHITE 1a

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) TRIBUTARY OF JORDAN CREEK Quadrangle BLUE CREEK

Elevation 839' 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 _____

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.xx

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. CUNNIGHAM

Company Official Title OFFICER

Subscribed and sworn before me this 4th day of OCTOBER, 20 13

Danielle N. Bays Notary Public

My commission expires 02/10/2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

11/22/2013

3906354R

WW-9
(5/13)

Page _____ of _____

API Number 47 - 39 -06354

Operator's Well No. WHITE 1a

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) TRIBUTARY OF JORDAN CREEK Quadrangle BLUE CREEK

Elevation 839' County KANAWHA District BIG SANDY

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

If so, please describe anticipated pit waste: _____

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

NO PIT

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.

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Company Official Signature _____

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

Company Official Title OFFICER

Subscribed and sworn before me this 4th day of OCTOBER, 20 13

_____ Notary Public

My commission expires 02/10/2015

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OCT 15 2013
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Form W-9

RAVEN RIDGE ENERGY, LLC.
WHITE #1A

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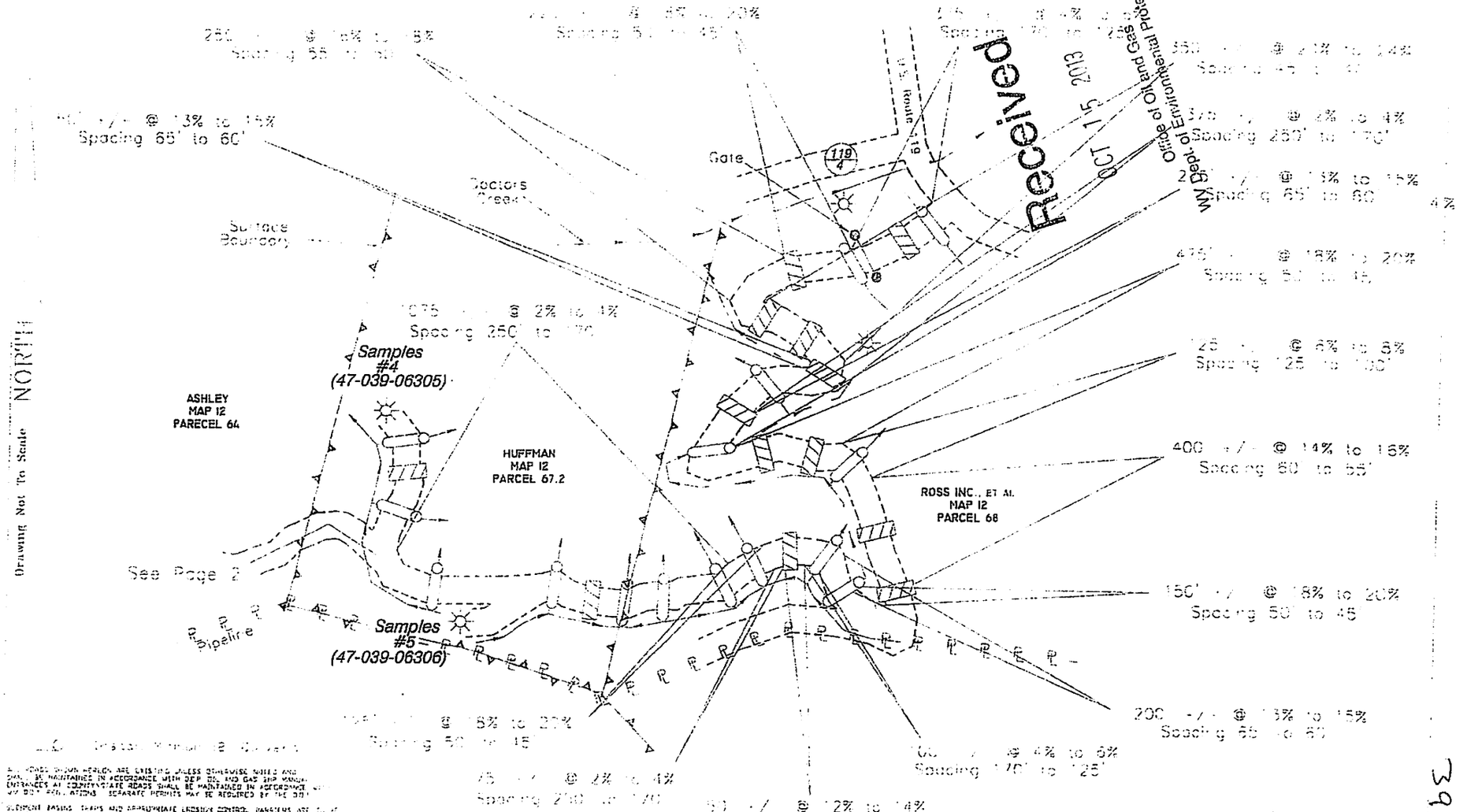
Office of Oil and Gas



HUPP Surveying & Mapping

Drafted BY | Date Drafted | Job Number

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39-06354-R

Form W-9

RAVEN RIDGE ENERGY, LLC.
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OCT 15 2013
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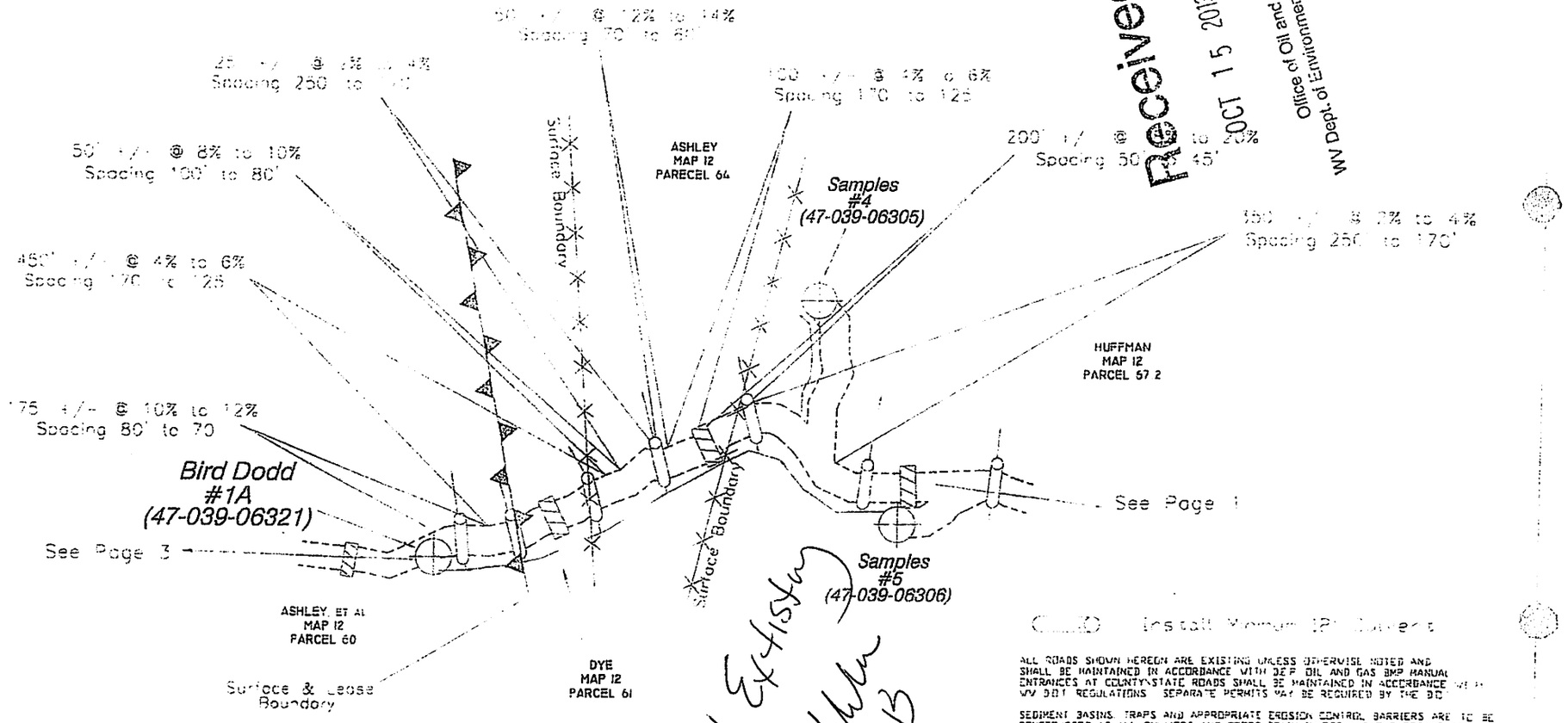
WV Dept. of Environmental Protection



All Existing
10-4-13

Install Minimum 18" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS BMP MANUAL ENTRANCES 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 BMP 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 TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR [illegible] WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARY SEED AND MULCH [illegible] CONSTRUCTION OF [illegible]

CUT AND STACK [illegible] TIMBER ABOVE 6 INCHES IN DIAMETER AND THICKER

[illegible]

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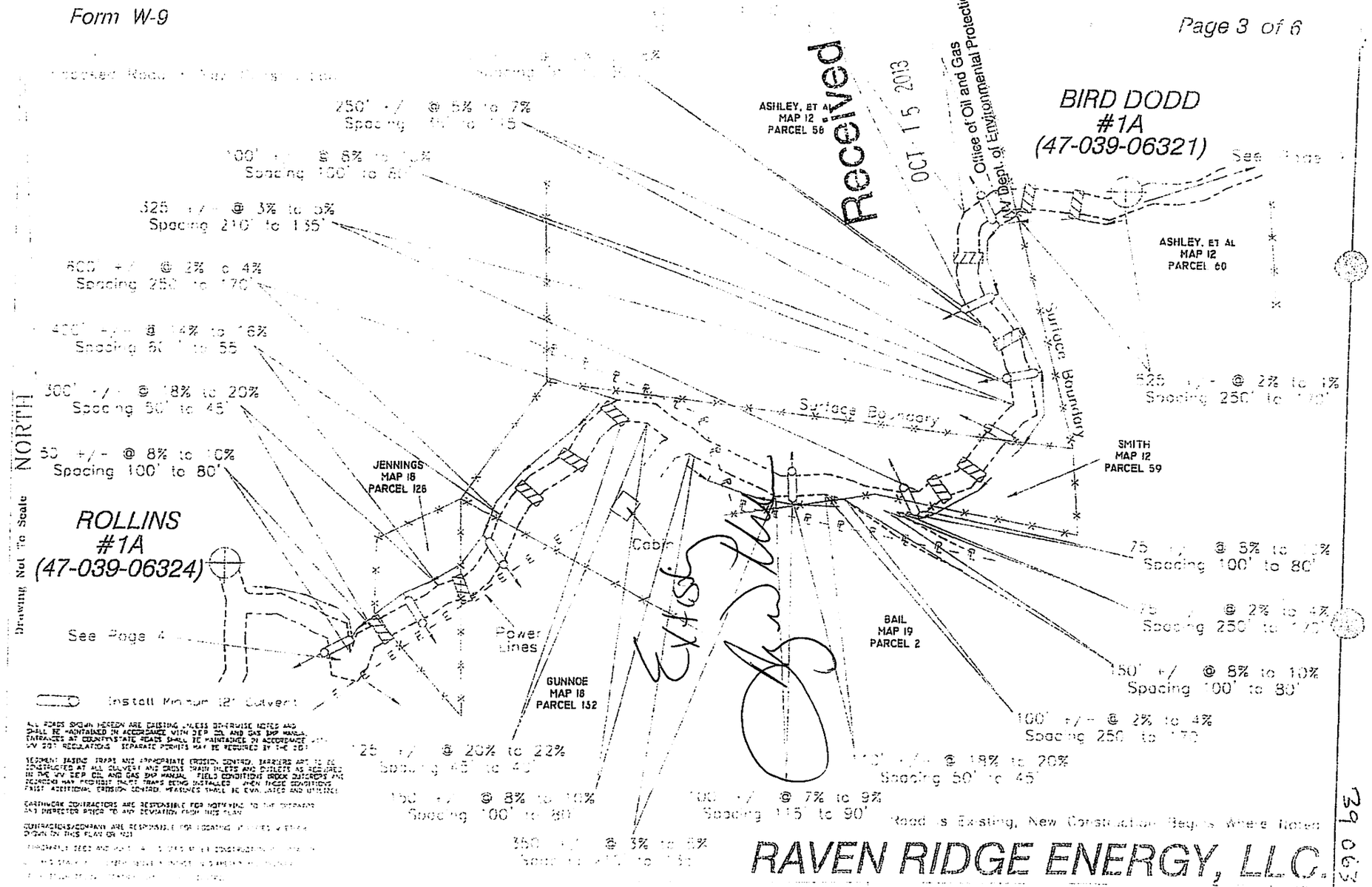

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOT.

SEDIMENT 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 BMP MANUAL. FIELD CONDITIONS SHOCK DICTATE AND RECORD 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 INSPECTOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

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

PERMANENT SEED AND MULCH ALL DISTURBED AREAS AS CONSTRUCTION IS COMPLETED.

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Office of Oil & Gas

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Drawn By | Date Drafted | Job Number

39 06354R

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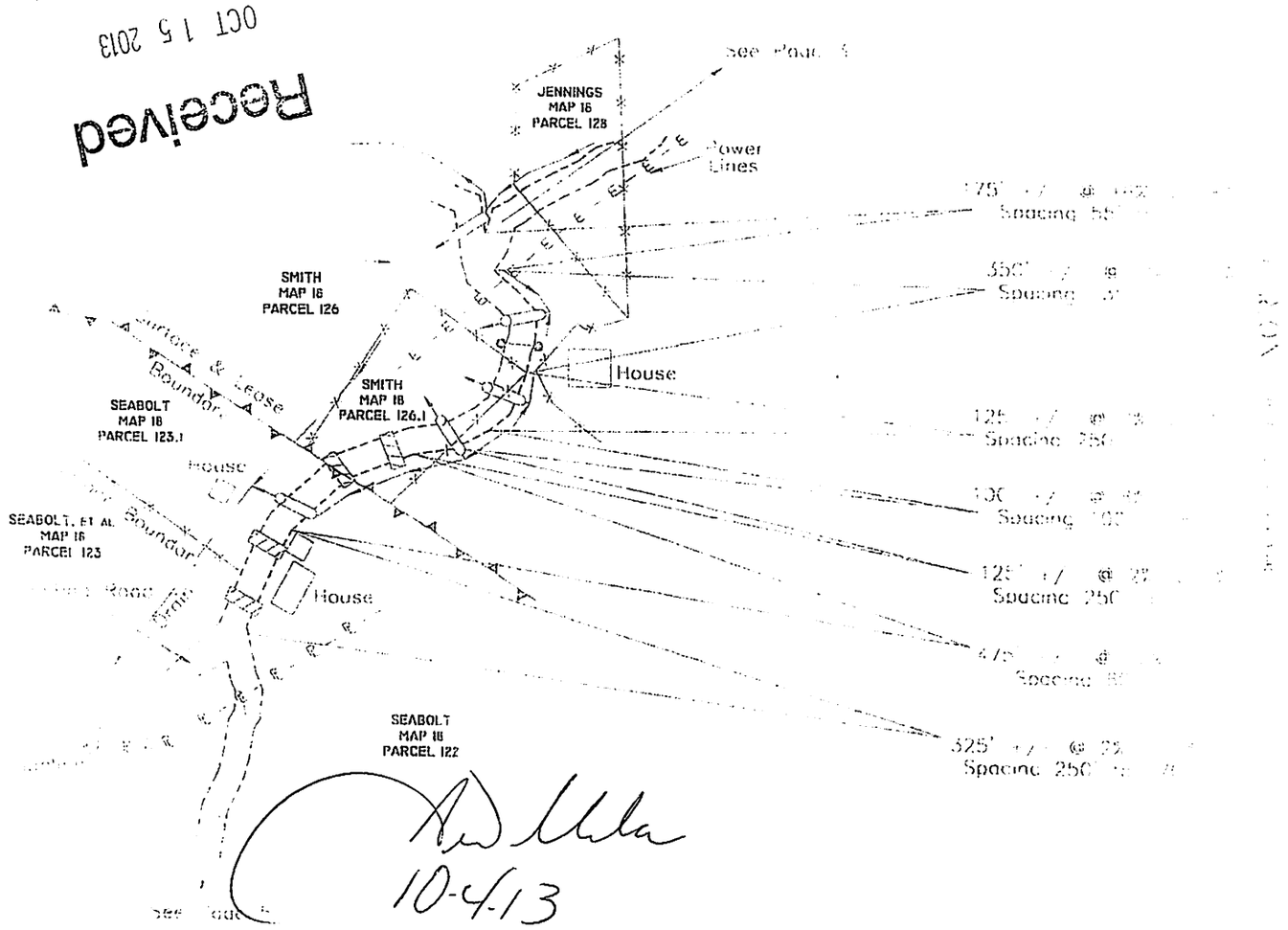

10-4-13

Install Minimum [illegible]

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE [illegible] SHALL BE MAINTAINED IN ACCORDANCE WITH D.E.P. OIL AND GAS [illegible] ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED [illegible] WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED [illegible]

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL [illegible] CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND [illegible] IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS [illegible] BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED [illegible] EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE [illegible]

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING [illegible] AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING [illegible] SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION [illegible]

CUT AND STACK ALL TIMBER ABOVE 6 INCHES IN DIAMETER [illegible]

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL

Road is Existing, New Construction Begins Where Noted.

HUPP Surveying & Mapping	Drafted BY:	Date Drafted:	Job Number
[illegible] 647 GRANTSVILLE, WV 26147 [illegible]-7035 E-MAIL: hupp@frontiernet.net	DB	08/14/12	[illegible]

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Dept. of Environmental Protection

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11/22/2013

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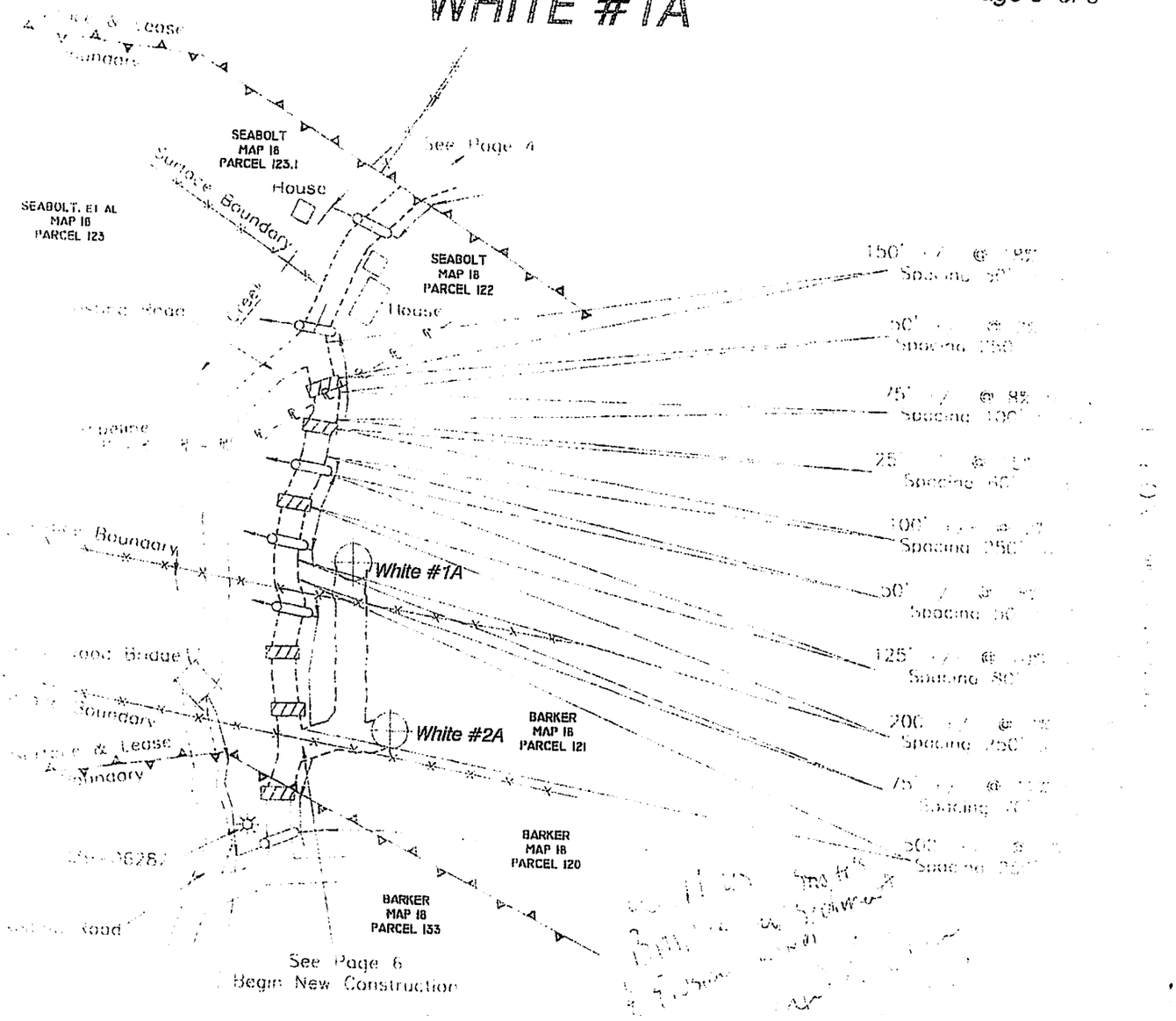

Install Minimum 12" Culverts

ROAD IS EXISTING, NEW CONSTRUCTION BEGINS WHERE NOTED

HUPP Surveying & Mapping

GRANTSVILLE, WV 26147

MAIL hupp@frontiernet.net

Drafted BY:	Date Drafted	Job Number
DR	08/14/13	

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WV Dept. of Environmental Protection

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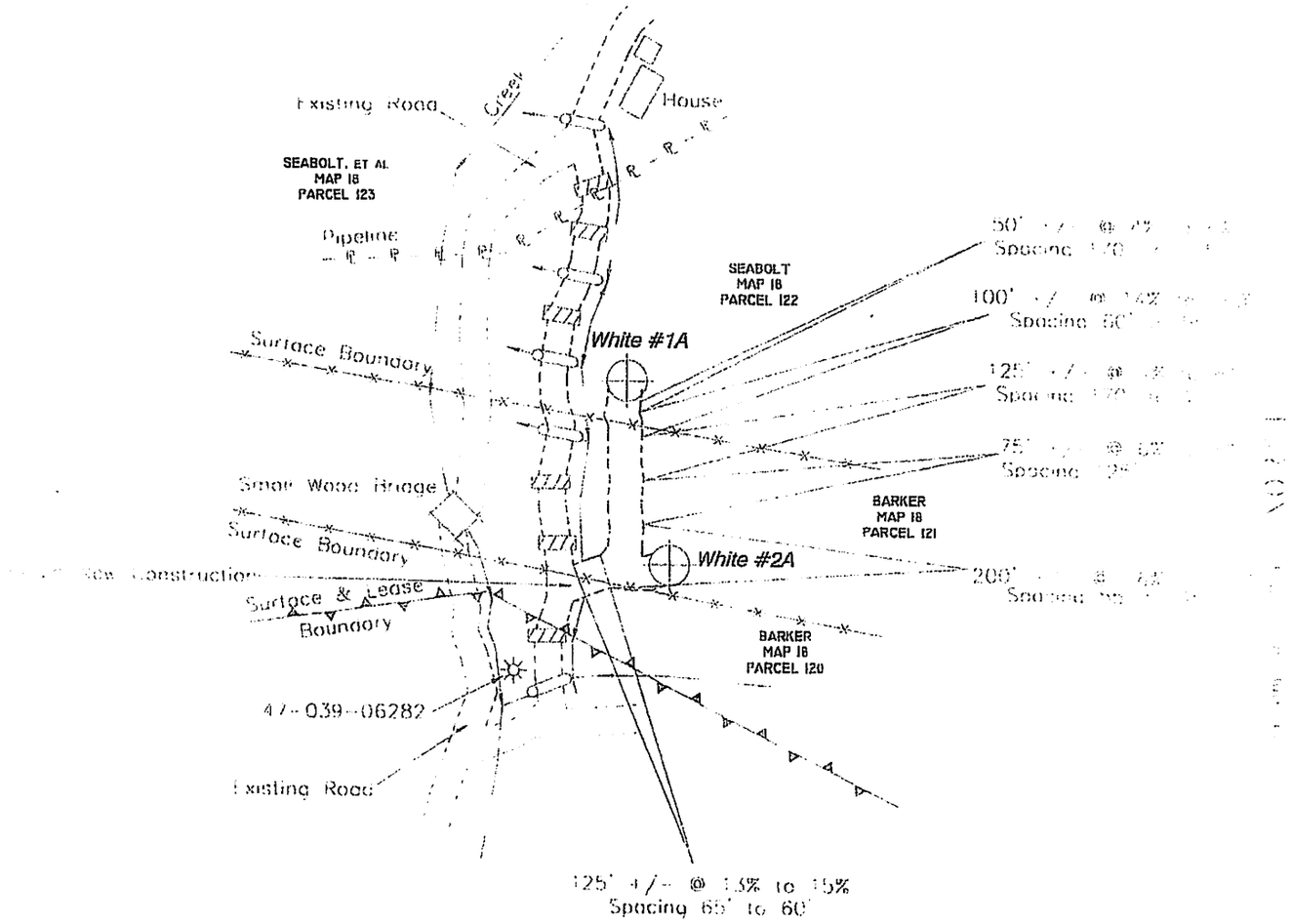

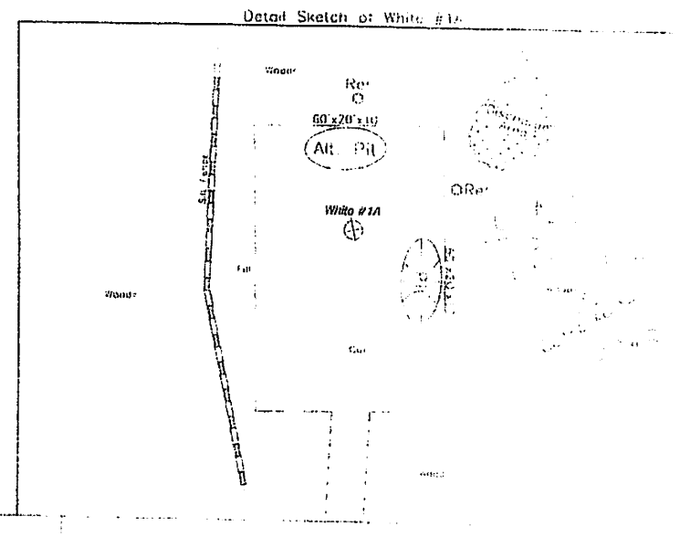

Install Minimum 12" Culvert

[illegible] ARE EXISTING UNLESS OTHERWISE NOTED AND [illegible] IN ACCORDANCE WITH D.E.P. OIL AND GAS RMP MANUAL [illegible] CONTRACTOR ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH [illegible] SEPARATE PERMITS MAY BE REQUIRED BY THE DOT

[illegible] TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE [illegible] CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED [illegible] OIL AND GAS RMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND [illegible] MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS [illegible] EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED

[illegible] CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR [illegible] ANY DEVIATION FROM THIS PLAN

[illegible] ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER [illegible]

[illegible] ALL SLOPES AFTER CONSTRUCTION OF LOCATION

[illegible] ABOVE [illegible] IN DIAMETER AND THICKER

[illegible] LOCATION FOR SEDIMENT CONTROL

HUPP Surveying & Mapping	Drafted BY:	Date Drafted:	Job Number
[illegible] GRANTSVILLE WV 26147 [illegible] E-MAIL hupp@frontiernet.net	DB	08/14/12	[illegible]

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OCT 15 2013

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WV Dept. of Environmental Protection

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Office of Oil & Gas
11/22/2013

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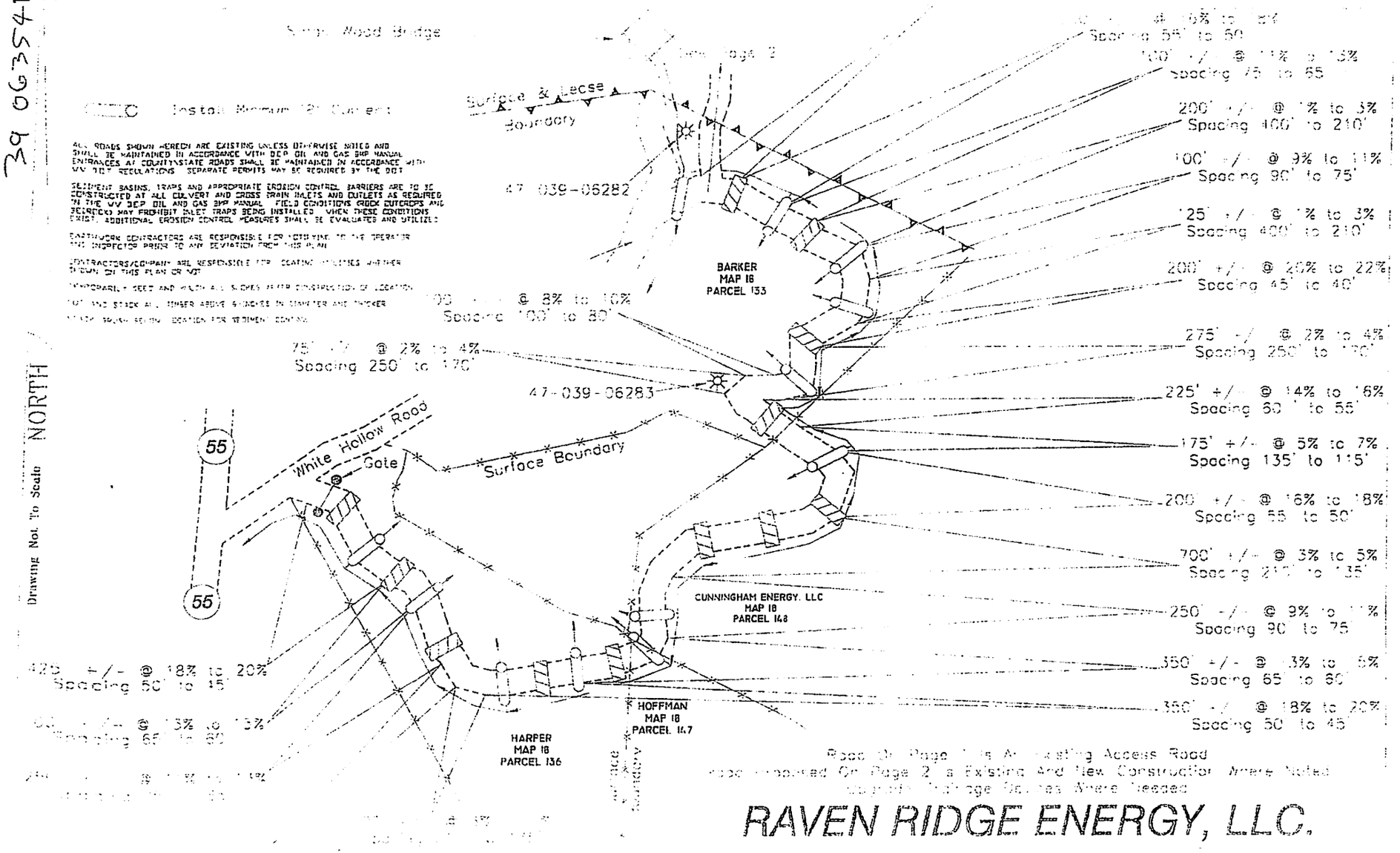
39 06354R



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WV Dept. of Environmental Protection

RAVEN RIDGE ENERGY, LLC.

HUPP Surveying & Mapping

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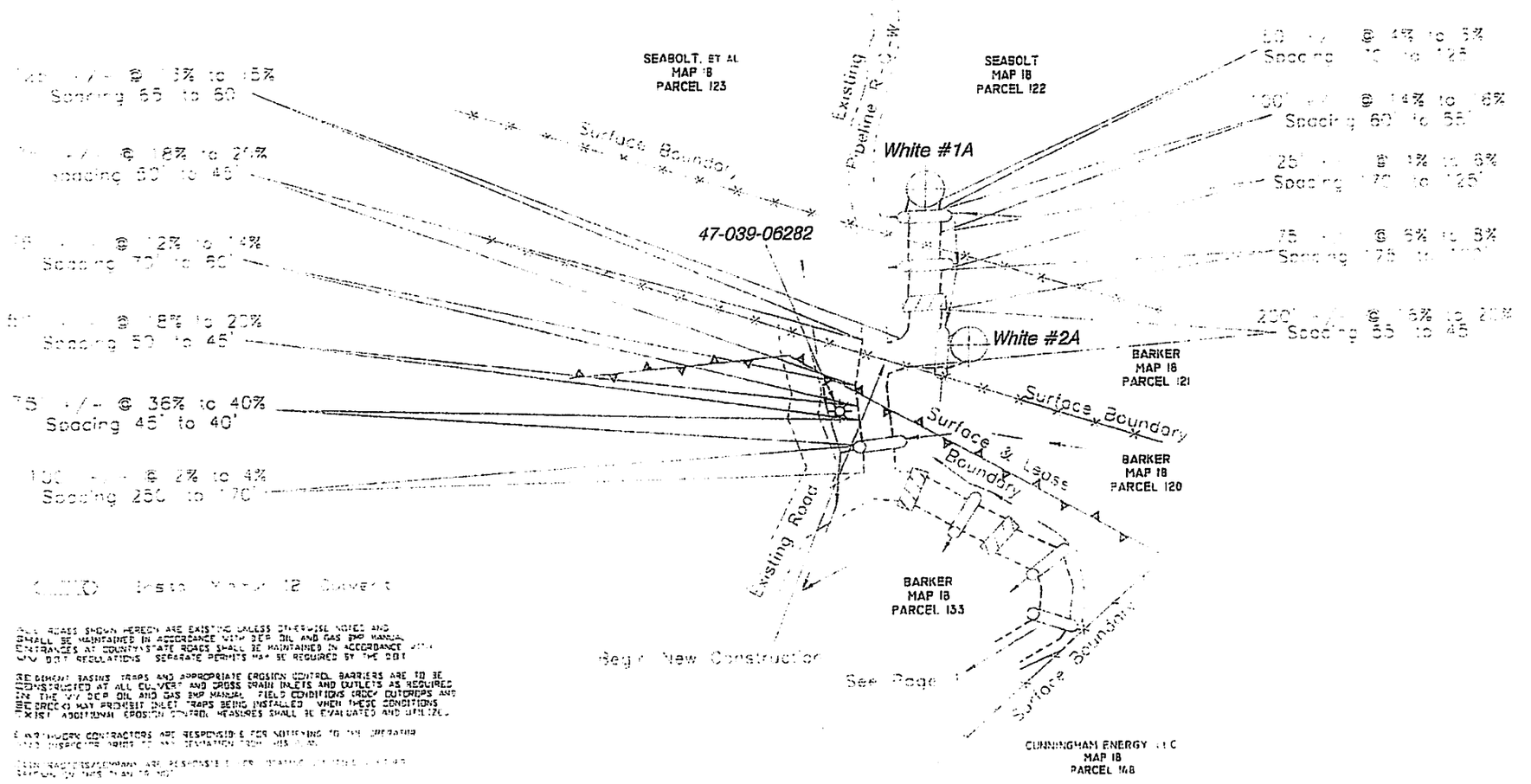
WHITE #1A



Drawing Not To Scale NORTH

HUPP Surveying & Mapping

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WV Dept. of Environmental Protection

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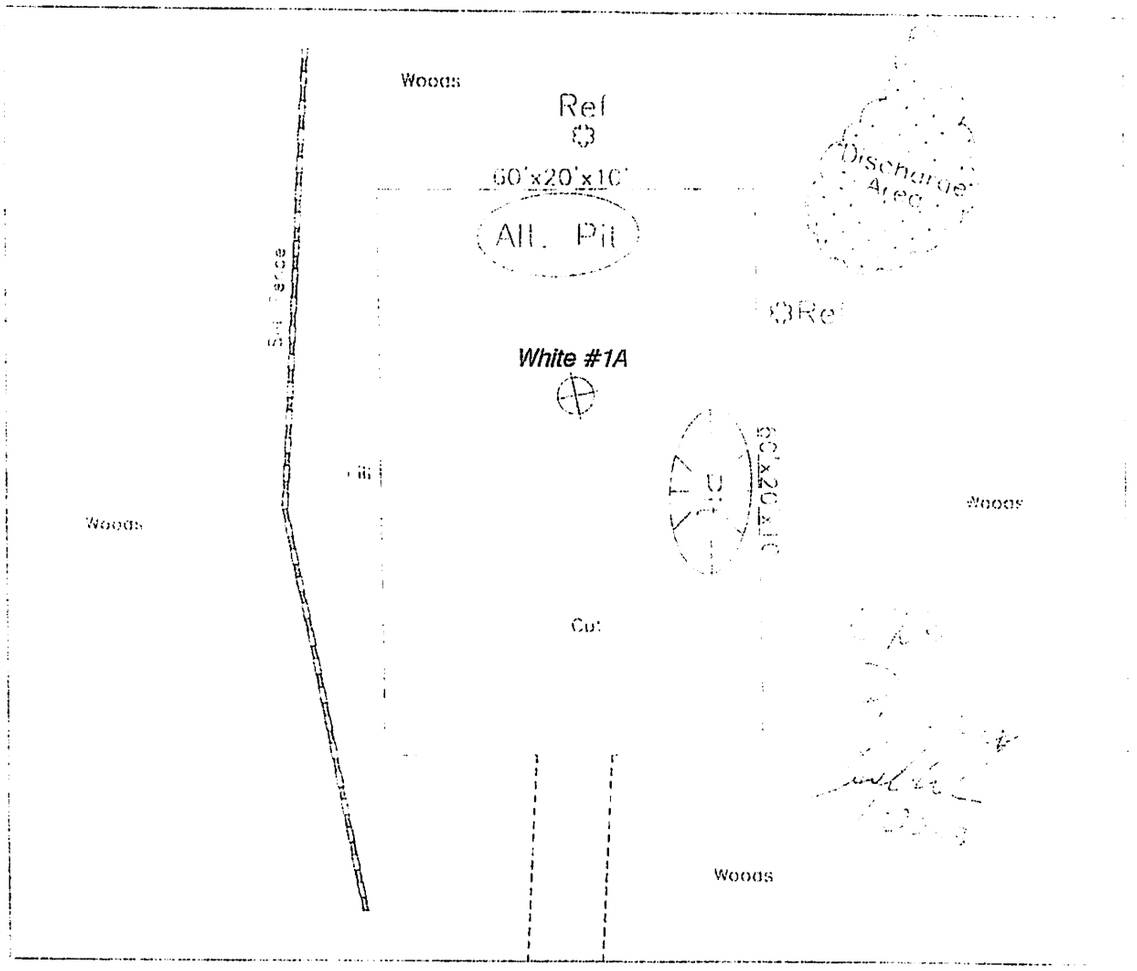
Office of Oil & Gas

39 06354R

Form W-9

RAVEN RIDGE ENERGY, LLC.
WHITE #1A



Install Minimum 12" Culverts

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS BMP MANUAL. ENTRANCES 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 BMP 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 NOTICING TO DEP OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

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

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION IS COMPLETED

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

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL

HUPP Surveying & Mapping	Drafted BY:	Date Drafted:	Job Number:
[illegible] 647 / GRANTSVILLE, WV 26147 [illegible] MAIL: supp@frontiernet.net	DB	08/14/13	[illegible]

Received
OCT 15 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

11/22/2013
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Office of Oil &

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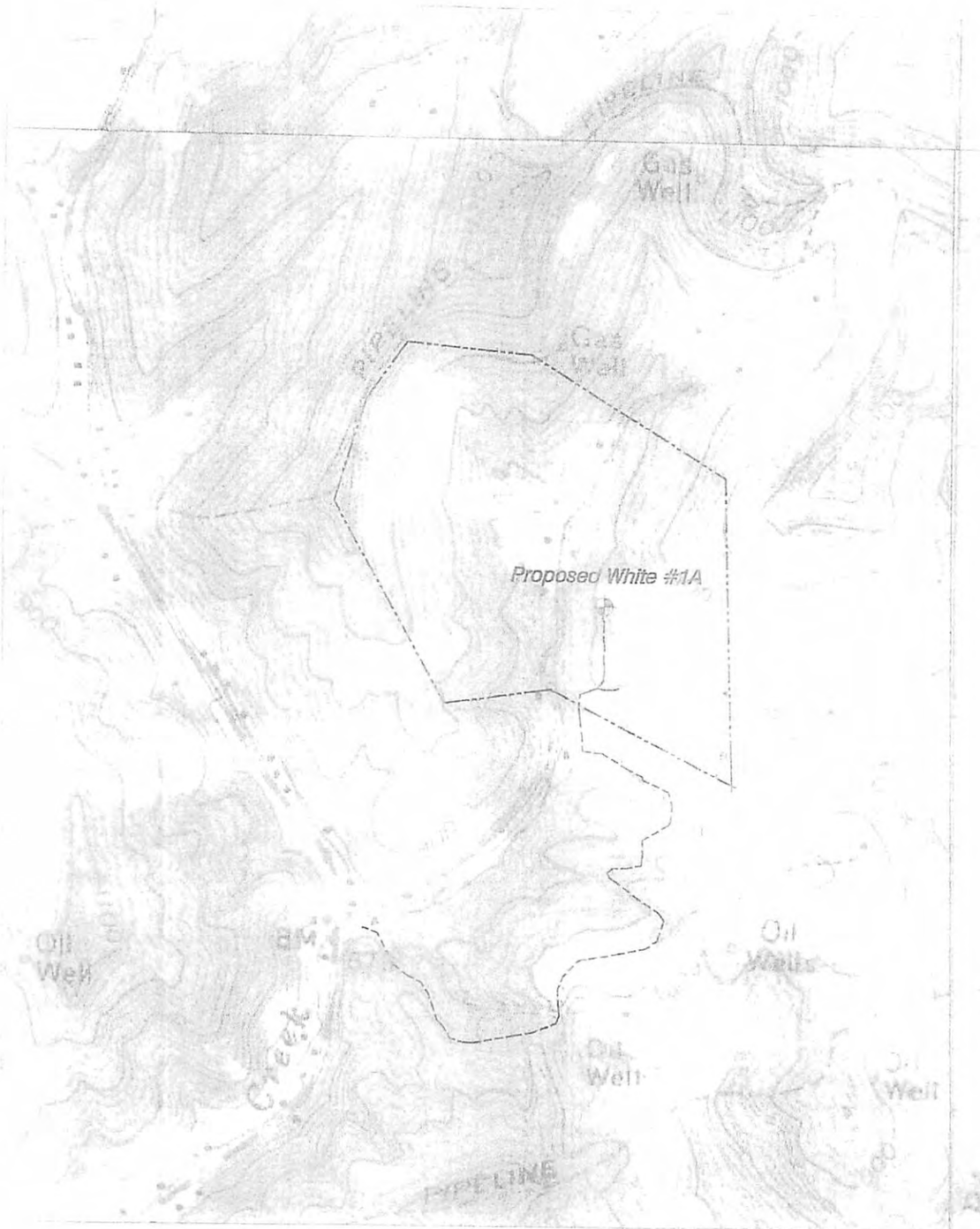
Form W-9

Raven Ridge Energy, LLC.
White #1A



HUPP Surveying & Mapping

1" = 1000'
Blue Creek Quad

Raven Ridge Energy
3230 Pennsylvania Ave
Charleston WV 25302

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WV Dept. of Environmental Protection

11/22/2013

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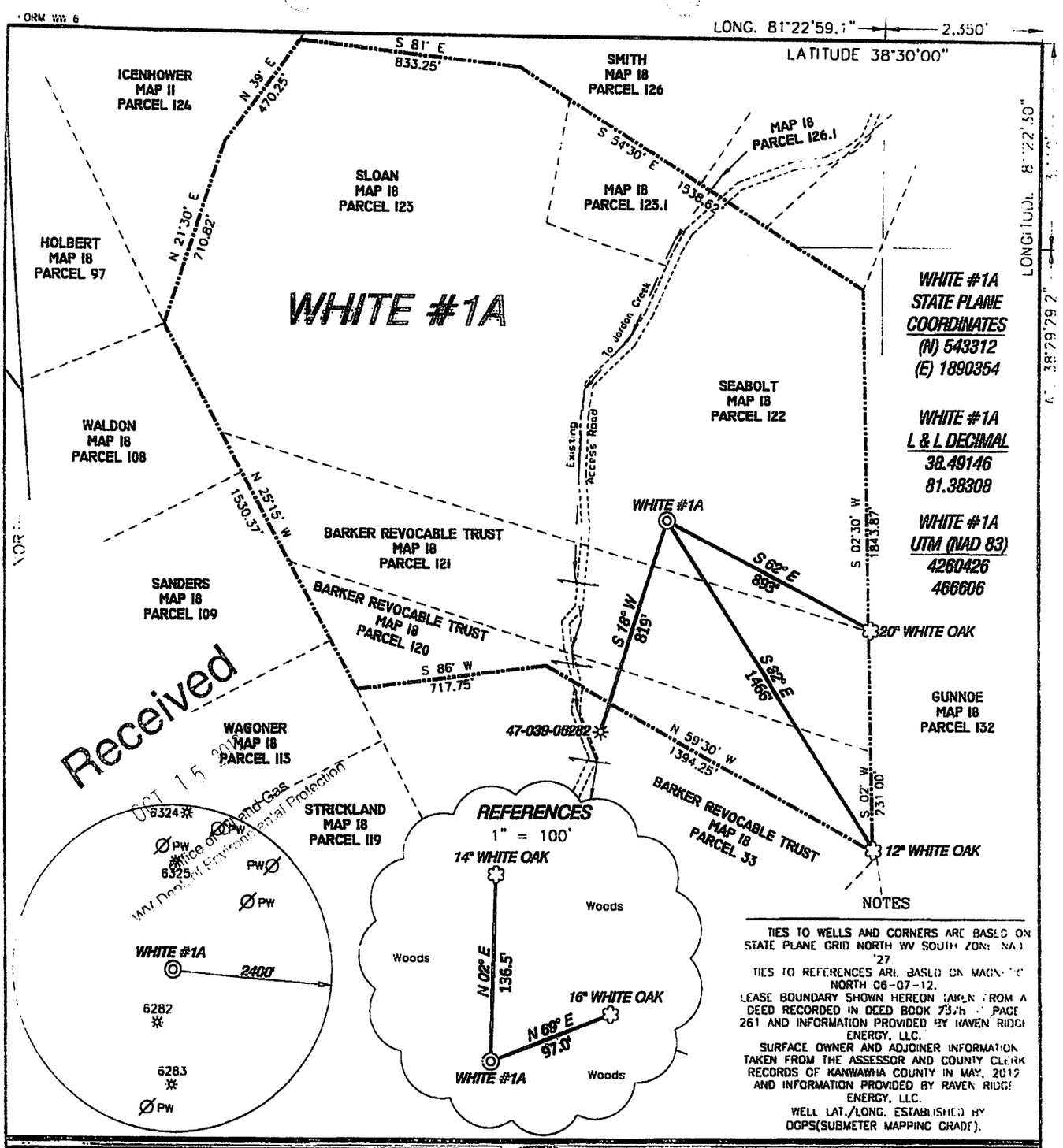
FORM WW-6



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OCT 15 2012
WV Department of Environmental Protection
Office of Oil and Gas

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. 834

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

DOYLE HUPP JR. LICENSED No. 834 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE AUGUST 14, 20 12
OPERATORS WELL NO. WHITE #1A
API WELL NO. 47 - 039 - 06354R
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE)
FILE NO. W2146 (BK 37-48)
SCALE 1" = 500'

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

WELL TYPE : OIL X GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION :
ELEVATION 859' WATERSHED TRIBUTARY OF JORDAN CREEK
DISTRICT BIG SANDY COUNTY KANAWHA QUADRANGLE BLUE CREEK 7.5'
SURFACE OWNER TEX SEABOLT ACREAGE 251
ROYALTY OWNER IRENE RUNYON, et al LEASE ACREAGE 112.91
PROPOSED WORK : LEASE NO.
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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