



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 21, 2013

WELL WORK PERMIT

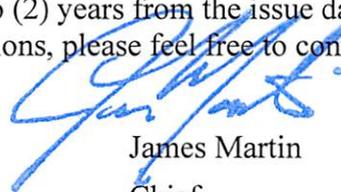
Re-Work

This permit, API Well Number: 47-3906345, 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: M. BIRD 1A
Farm Name: ASHLEY, LESLIE AND CONNIE
API Well Number: 47-3906345
Permit Type: Re-Work
Date Issued: 11/21/2013

Promoting a healthy environment.

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.

47-3906345

WW - 2B
(Rev. 8/10)

Check# 8275
\$ 650.00

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

1) Well Operator: RAVEN RIDGE ENERGY
Operator ID: 494485865 County: KANAWHA District: BIG SANDY Quadrangle: CLENDENIN

2) Operator's Well Number: MARY BIRD 1A 3) Elevation: 1041'

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

5) Proposed Target Formation(s): WEIR Proposed Target Depth: 2,300'

6) Proposed Total Depth: 2,500' Feet Formation at Proposed Total Depth: 2,200' - 2,300'

7) Approximate fresh water strata depths: 1,300' - 1,800'

8) Approximate salt water depths: NO COAL LISTED ON TITLE

9) Approximate coal seam depths: NONE

10) Approximate void depths,(coal, Karst, other): NO

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)

STIMULATE AND FRAC AN EXISTING, PREVIOUSLY SHOT WELL. THE WELL HAS BEEN PRODUCED HOWEVER WE ARE NOT HAPPY WITH THE RESULT, THEREFORE WE WOULD ASK TO RUN 4 1/2" CASING AND PERFORM AN ACID AND WATER FRAC ON THIS WELL. WE PROPOSE TO FRAC THIS WELL IN THE SAME FORMATION PREVIOUSLY PRODUCED.

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	382'	382'	EXISTING
Coal						
Intermediate	7"	J55	23LBS	1831'	1831'	EXISTING
Production	4 1/2"	E65	10.5 LBS	2250'	2250'	150 Sacks
Tubing						
Liners						

Handwritten signature
9-9-13

Received
SEP 9 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Packers: Kind: _____
Sizes: _____
Depths Set _____

**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 L. ENGELKE, AGENT	CUNNINGHAM ENERGY, LLC	1/8	260/431

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**

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:

- o WV Division of Water and Waste Management
- o WV Division of Natural Resources
- o WV Division of Highways
- o U.S. Army Corps of Engineers
- o U.S. Fish and Wildlife Service
- o 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:
By: Its:

RAVEN RIDGE ENERGY
RYAN CUNNINGHAM
OFFICER



SEP 9 2013
 WV Department of Environmental Protection
Received

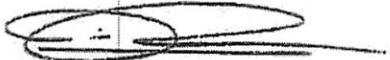
SEP 9 2013

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


Owner

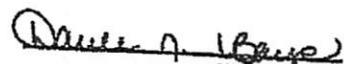
RAVEN RIDGE ENERGY


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.



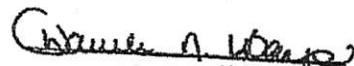

Notary Public

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.




Notary Public

2/10/2015
My Commission Expires

RECEIVED
Office of Oil and Gas
NOV 18 2013
WV Department of
Environmental Protection

3906345R

WW-9
(5/13)

Page _____ of _____
API Number 47-39 -06345
Operator's Well No. M. BIRD #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) DOCTOR'S CREEK Quadrangle CLIO 7.5'

Elevation 1,041' 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: NO PIT - STORAGE TANK WILL BE USED

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

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 _____)

Handwritten signature and date: 10-10-13

Will closed loop system be used? NO

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

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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 _____

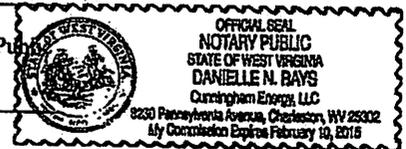
Company Official (Typed Name) RYAN CUNNINGHAM

Company Official Title OFFICER

Subscribed and sworn before me this 10 day of OCTOBER, 20 13

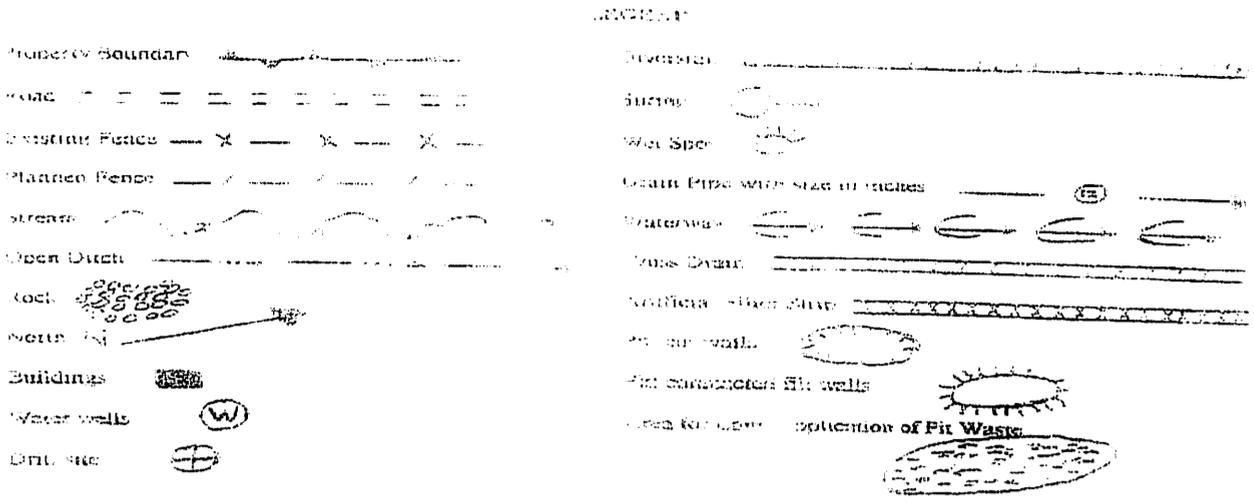
Danielle N. Bays Notary Public

My commission expires 10/10/2013



3906345R

Operator's Well No. M. BIRD #1A



Proposed Revegetation Treatment: Acres Disturbed 3.5 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
KY-31	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: [Signature]
 Comments: Operator will upgrade road from 14' to Top of Hill to make passable and to erosion to a very minimal.

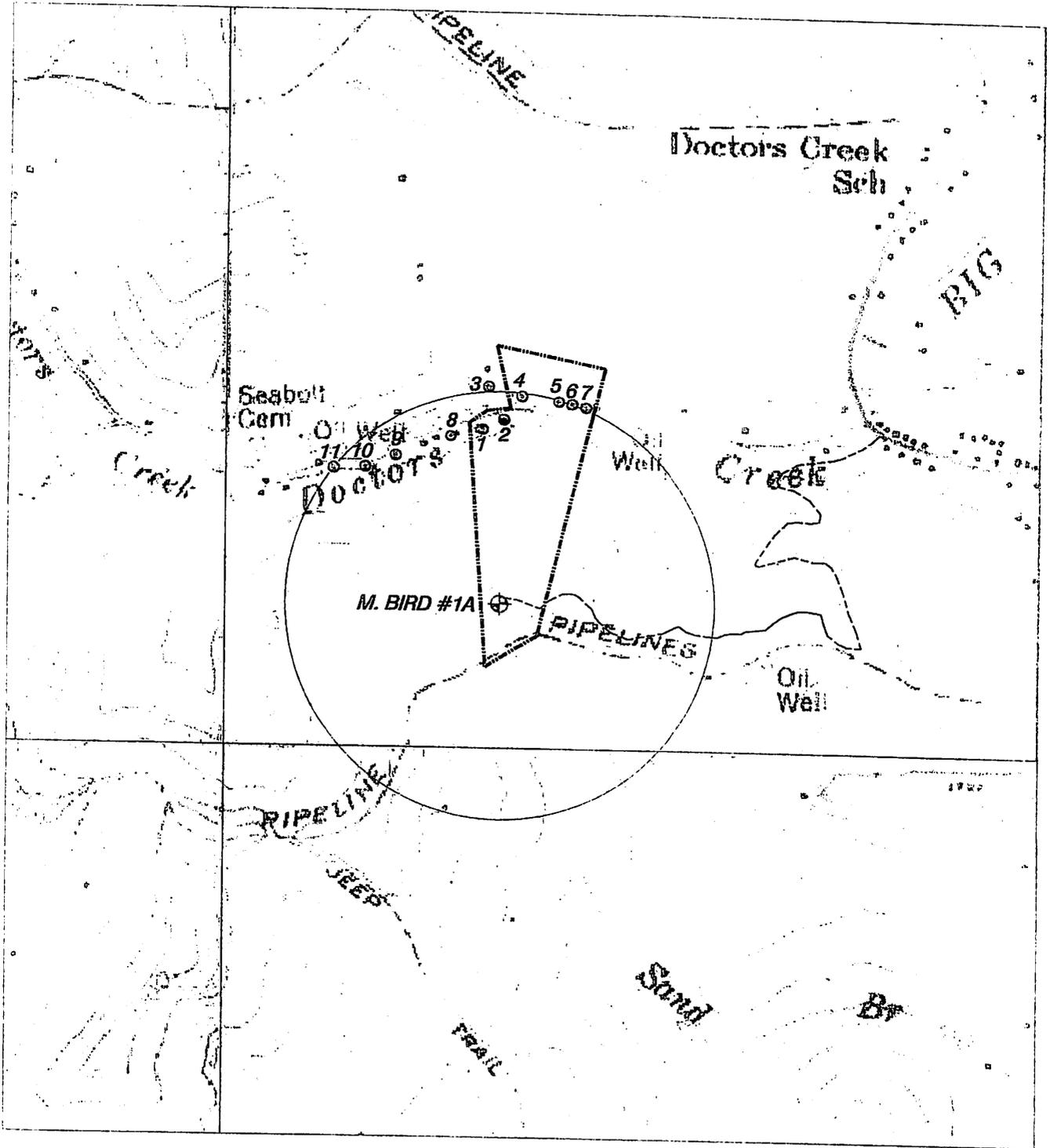
Title: Inspector Date: 12-6-10

Field Reviewed? Yes No

Received
 WV Department of Environmental Protection
 SEP 9 2013
 Office of Oil and Gas
 WV Dept. of Environmental Protection

RAVEN RIDGE ENERGY, LLC. M. BIRD #1A WATER

3906345R



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

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SEP 9 2013

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WV Dept. of Environmental Protection

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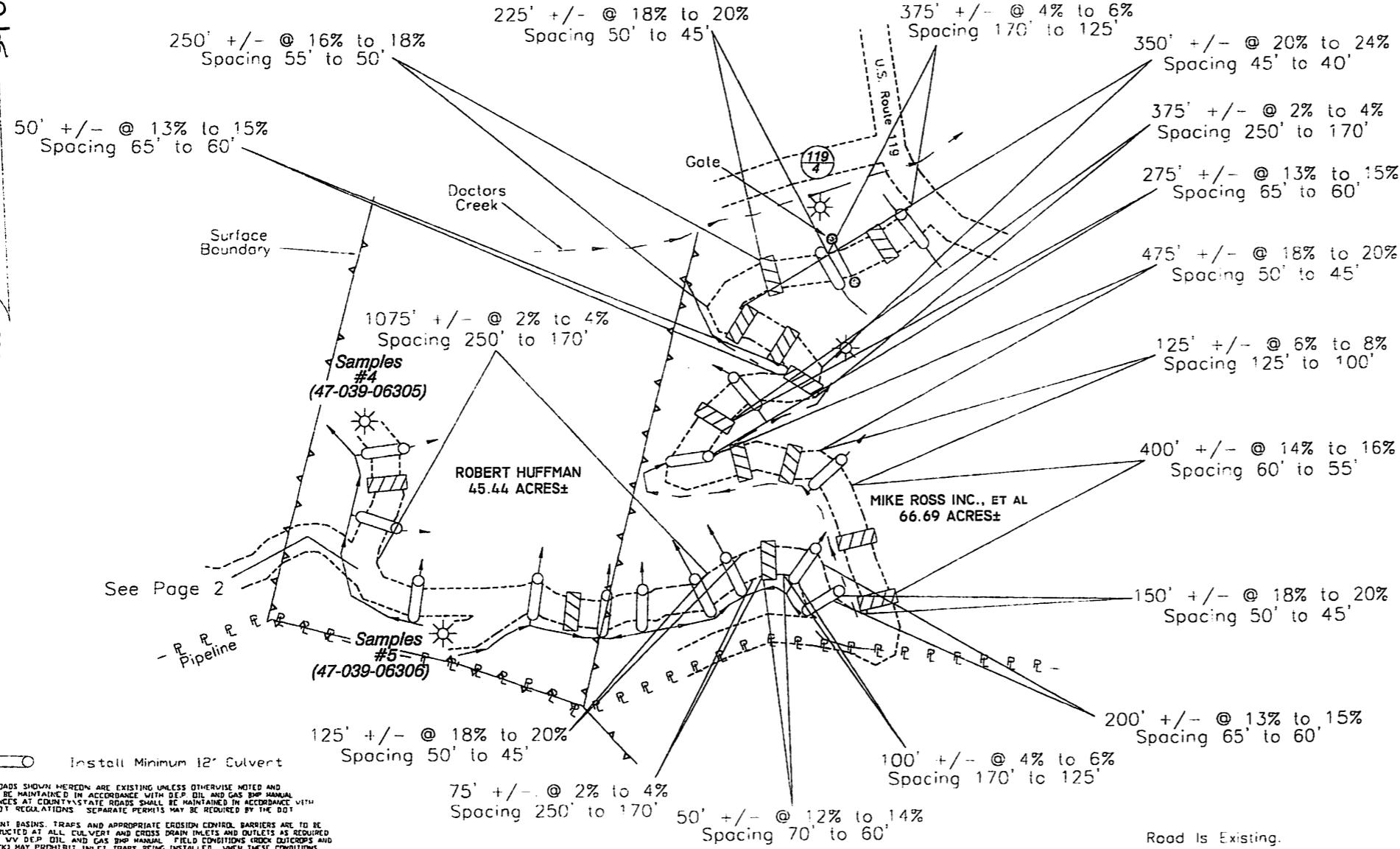
Form W-9

RAVEN RIDGE ENERGY, LLC. MARY BIRD #1A

Page 1 of 3

INVERT

DATE TO BE



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

INLET BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE INSTALLED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED BY DEEP OIL AND GAS BMP MANUAL. FIELD CONDITIONS SUCH AS ROCKS AND LOGS MAY PREHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

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

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

IMMEDIATELY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION AND CHECK ALL TRENCHES ABOVE 6 INCHES IN DIAMETER AND DEEPER FOR BRUSH REFLECTOR LOCATION FOR SEDIMENT CONTROL.

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	01/21/13	w20122145

Received

SEP 9 2013

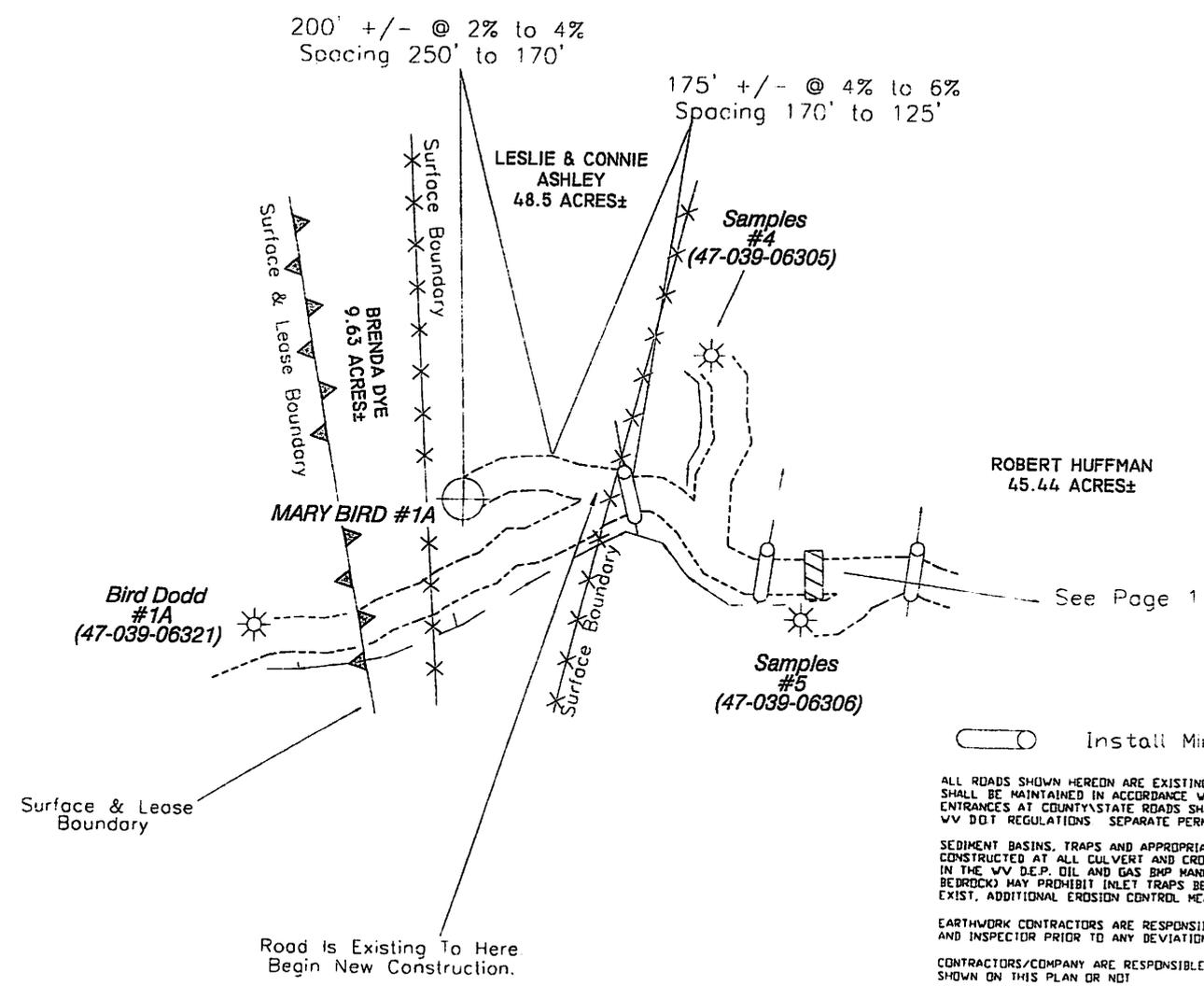
Office of Oil and Gas
WV Dept. of Environmental Protection

3906345R

Form W-9

RAVEN RIDGE ENERGY, LLC. MARY BIRD #1A

Page 2 of 3



○—○ Install Minimum 12' Culvert

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

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 D.E.P. 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 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.

HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH (304)354-7035 E-MAIL hupp@fronternet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	01/21/13	W20122145

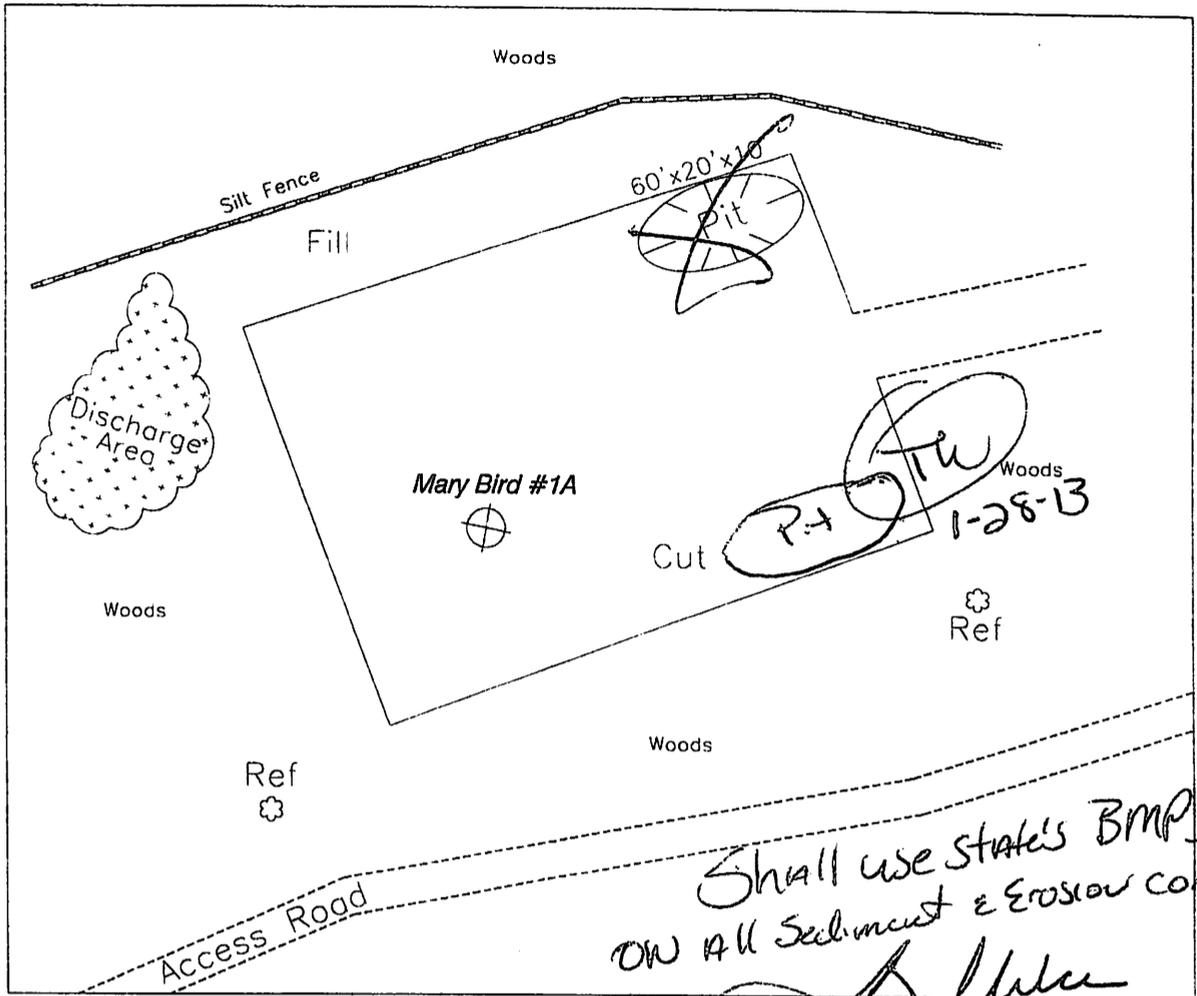
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Office of Oil and Gas
WV Dept. of Environmental Protection

RAVEN RIDGE ENERGY, LLC. MARY BIRD #1A

3906345R



Drawing Not To Scale NORTH

 Install Minimum 12" 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 D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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.

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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.

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	01/21/13	W20122145

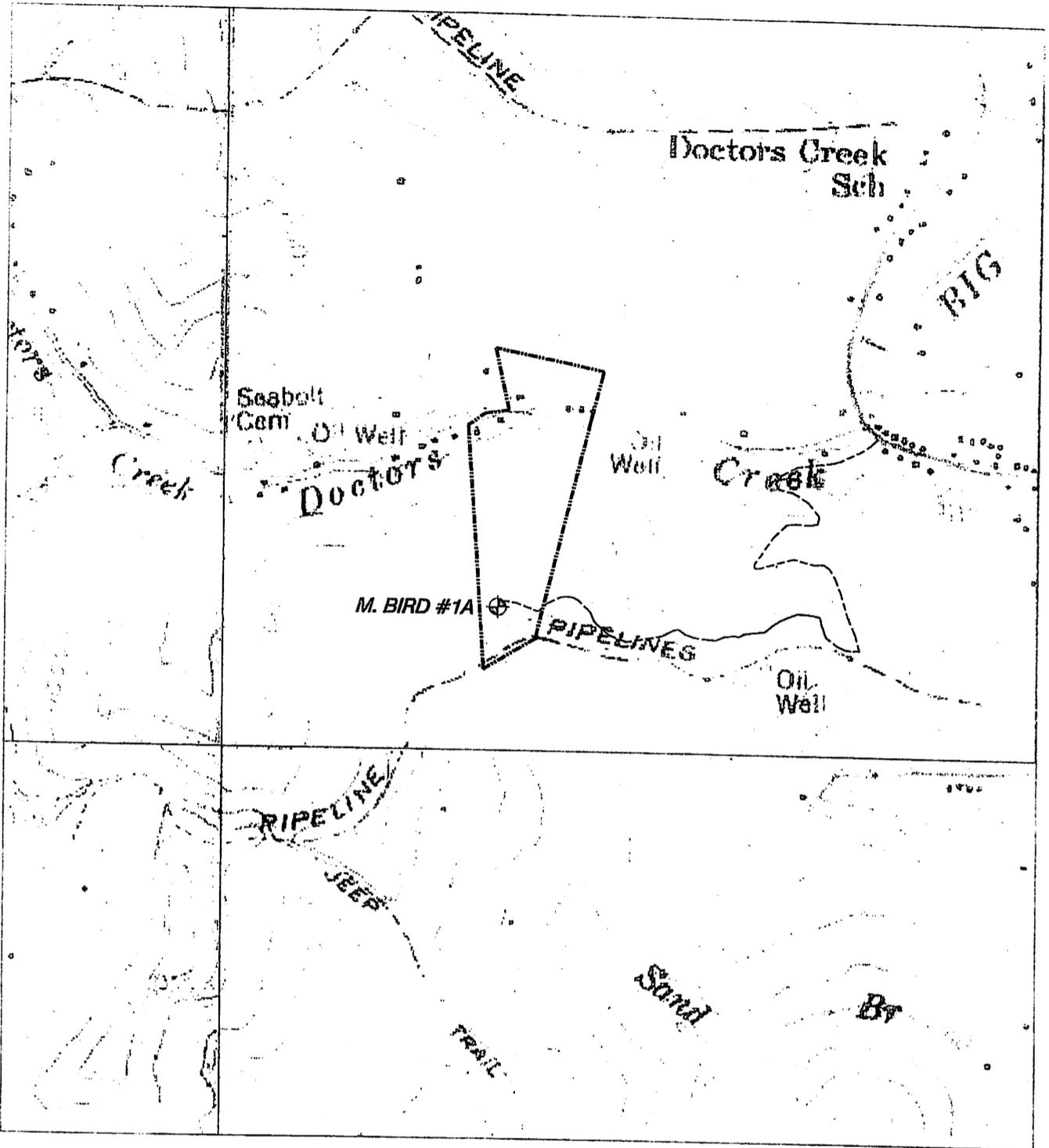
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Office of Oil and Gas
WV Dept. of Environmental Protection

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RAVEN RIDGE ENERGY, LLC. M. BIRD #1A



NORTH

HUPP Surveying & Mapping

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

1" = 1000'
Clio Quad

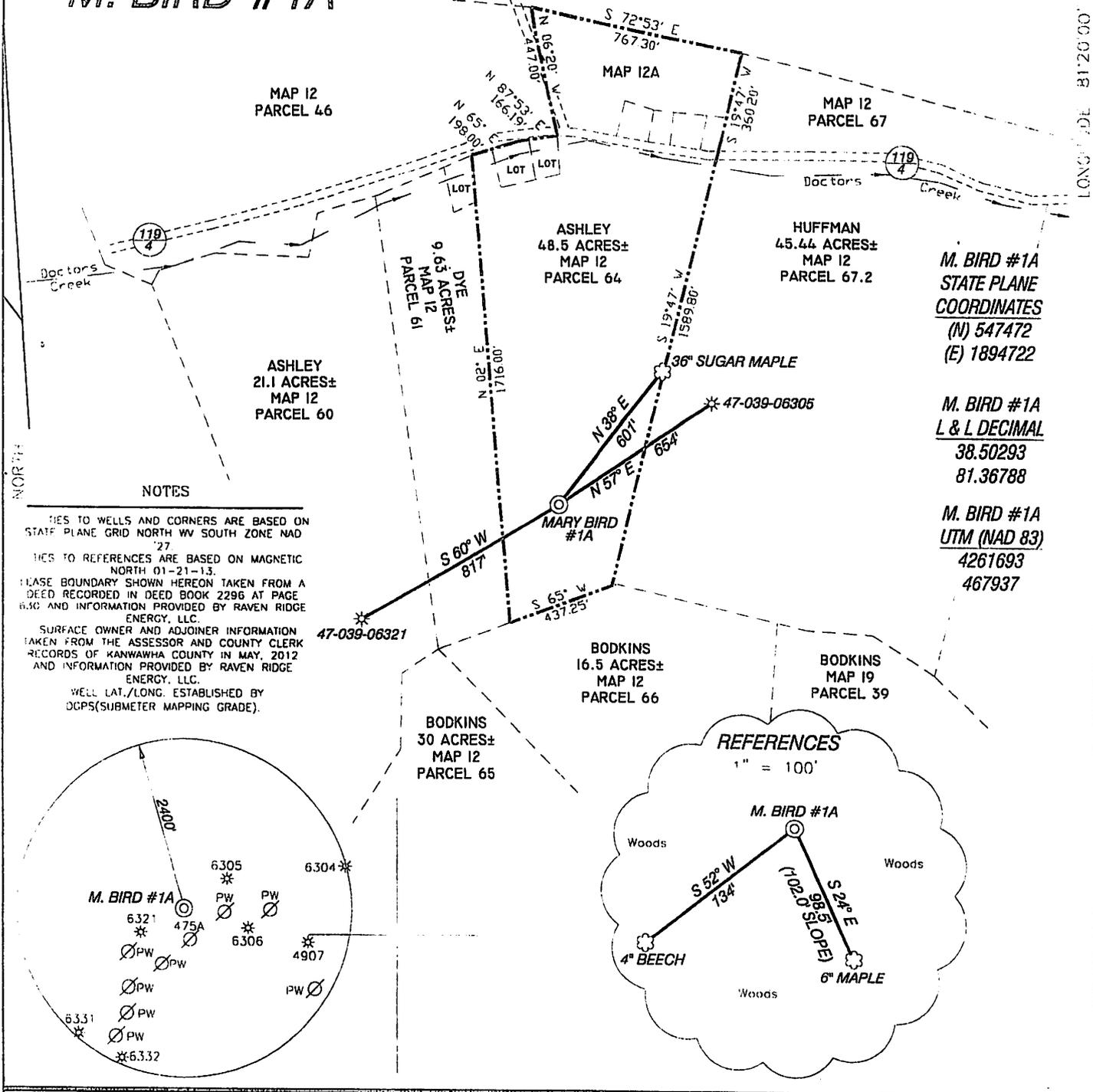
Raven Ridge Energy, LLC.
3230 Pennsylvania Ave.
Charleston, WV 25302

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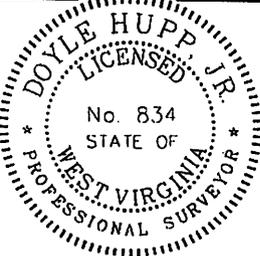
SEP 9 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

M. BIRD #1A



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 JANUARY 21 2013

OPERATORS WELL NO. MARY BIRD #1A

API WELL NO. 47-039-06345V

STATE COUNTY PERMIT

P.S. 834

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. W2145 (BK 62-44)

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 1,041' WATERSHED DOCTORS CREEK

DISTRICT BIG SANDY COUNTY KANAWHA QUADRANGLE CLIO 7.5'

SURFACE OWNER LESLIE & CONNIE ASHLEY ACREAGE 48.5±

ROYALTY OWNER MARY BIRD HEIRS, et al LEASE ACREAGE 57±

PROPOSED WORK LEASE NO. 2013-001

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 _____

WELL OPERATOR RAVEN RIDGE ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM

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

Office of Oil and Gas
 WV Dept. of Environmental Protection

SEP 9 2013

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

Operator Name RAVEN RIDGE ENERGY, LLC OP Code 494485865

Watershed DOCTORS CREEK Quadrangle CLIO 7.5

Elevation 1,041' 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 complete the proposed well work? Yes _____ No X

Will a synthetic liner be used in the pit? YES . If so, what mil.? 30

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 _____)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR, FRESHWATER
-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? SOAP, KCL, OR CLAY STAY

Will closed loop system be used? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT

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

-Landfill or offsite name/permit number? _____

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.

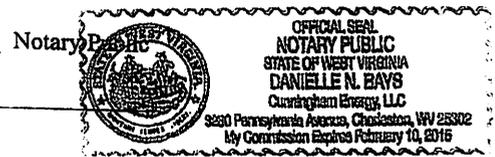
Company Official Signature _____

Company Official (Typed Name) RYAN CUNNINGHAM

Company Official Title OFFICER

Subscribed and sworn before me this 30th day of November, 20 12

My commission expires 2/10/2015



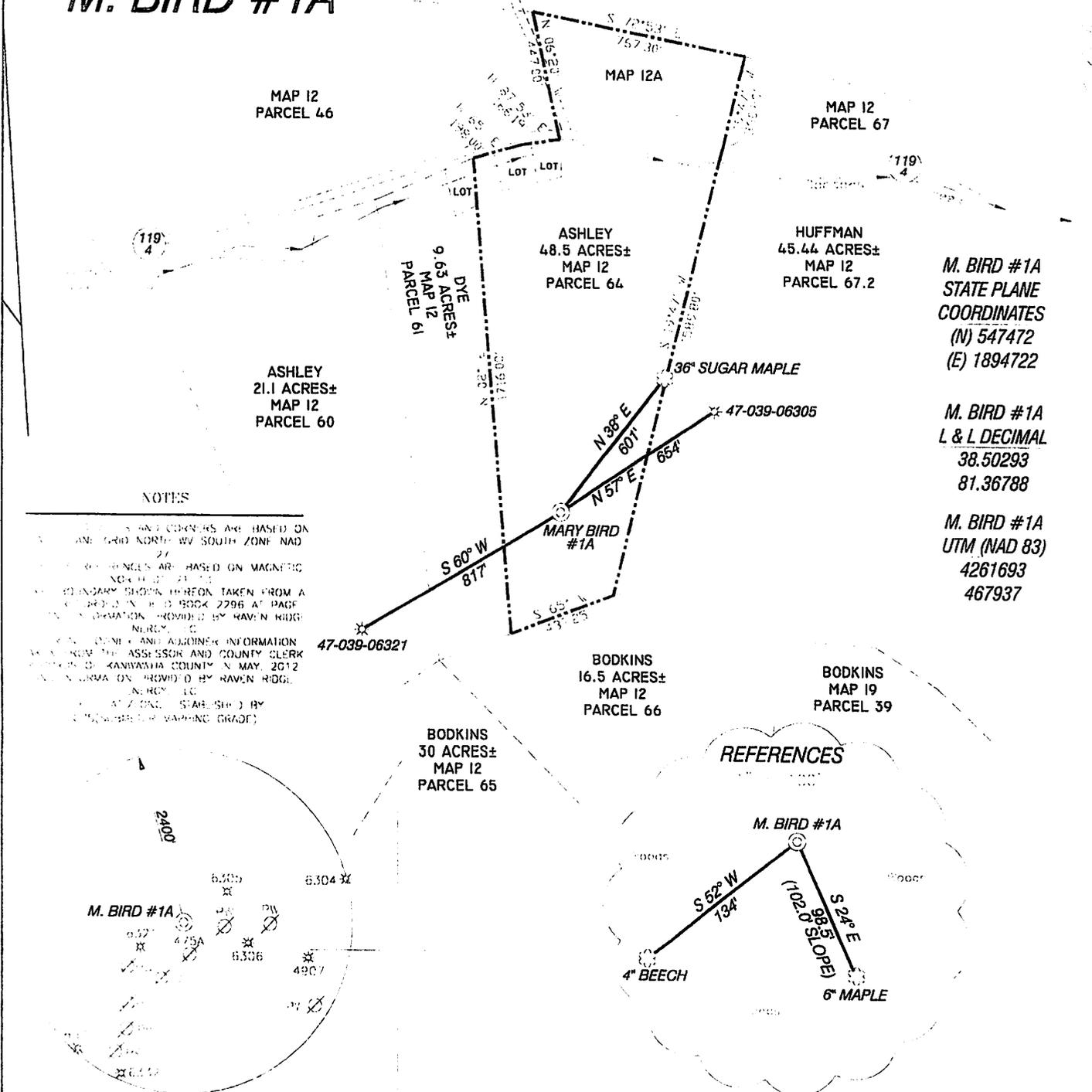
Received

SEP 9 2013

JAN 30 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

M. BIRD #1A



M. BIRD #1A
STATE PLANE
COORDINATES
(N) 547472
(E) 1894722

M. BIRD #1A
L & L DECIMAL
38.50293
81.36788

M. BIRD #1A
UTM (NAD 83)
4261693
467937

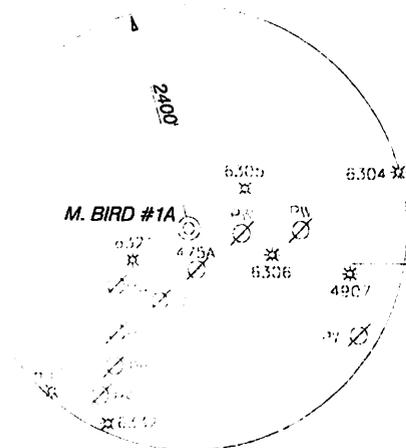
NOTES

ALL BEARINGS AND DISTANCES ARE BASED ON THE GRID NORTH - WV SOUTH ZONE NAD 83.

ALL BEARINGS ARE BASED ON MAGNETIC NORTH AS SHOWN ON THE BOUNDARY SURVEY RECORD TAKEN FROM A SURVEY BOOK NO. 2296 AT PAGE 10. CORRECTION PROVIDED BY RAVEN RIDGE ENERGY, INC.

ALL ADJOINER INFORMATION WAS OBTAINED FROM THE ASSESSOR AND COUNTY CLERK OF KANAWHA COUNTY IN MAY 2012. ALL INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, INC.

ALL DISTANCES MEASURED BY THE SURVEYOR ON THE GROUND.

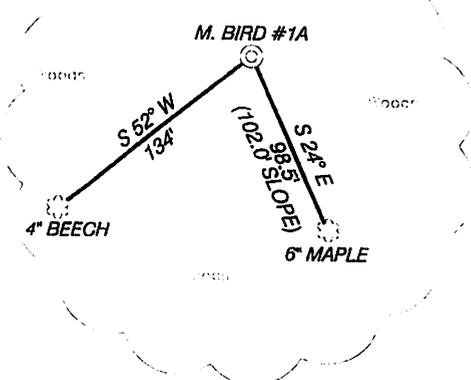


BODKINS
30 ACRES±
MAP 12
PARCEL 65

BODKINS
16.5 ACRES±
MAP 12
PARCEL 66

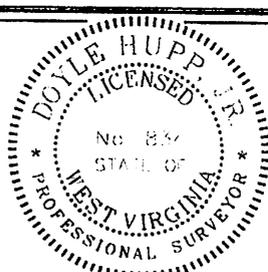
BODKINS
MAP 19
PARCEL 39

REFERENCES



I, the undersigned, hereby certify that this plan is correct to the best of my knowledge and belief and shows all the facts known to me by law and the regulations issued by the Division of Environmental Protection.

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



(+) DENOTES LOCATION OF WELL ON UNIFIED STATES TOPOGRAPHIC MAPS

DATE: JANUARY 2013

OPERATOR: RAVEN RIDGE ENERGY, INC.

API NO. 47-039-06301

WELL NO. 06345

STATE: WV COUNTY: PERMIT:

WELL NO. 47-039-06301 FILE NO. W2145 (BK 62-44)

SCALE: 1" = 400'

LOCATION: LOGS (SUBMETER GRADE)

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

LIQUID INJECTION	WASTE DISPOSAL	GAS PRODUCTION	STORAGE
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ELEVATION: 1,041'		WATERSHED: DOCTORS CREEK	
ROCK: RED SANDY		COUNTY: KANAWHA	
OWNER: ASHLEY & CONNIE ASHLEY		QUADRANGLE: QUIC 7.5'	
PROPERTY: MARY BIRD HEIRS, et al		ACREAGE: 48.2	
WELL WORK: DRILL DEEPER		WELL NO.:	
FORMATION: REFORATE NEW FORMATION		PLUG AND ABANDON: <input type="checkbox"/>	
CHANGE IN WELL (SPECIFY):		TARGET FORMATION: BELEA	
		ESTIMATED DEPTH: 1,000'	

Received

OPERATOR: RAVEN RIDGE ENERGY, INC. DESIGNATED AGENT: RYAN CUNNINGHAM

ADDRESS: 2230 PENNSYLVANIA AVE CHARLESTON, WV 25302

DATE: SEP 9 2013



September 9, 2013

DEP
Office of Oil & Gas
Attn: Permit Application Dept.
Charleston, WV

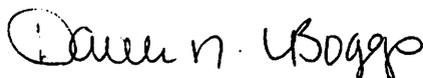
Re: Mary Bird 1A
API # 47-3906345

Dear Sirs –

Please see attached a modified WW-2B along with the previously submitted and approved permit application for the Mary Bird 1A well, API # 47-3906345. We would ask that this permit be re-issued so that we may run 4 ½" casing and frac this previously producing well. I understand that this well is in the process of being released so therefore we have enclosed the permit application fee of \$650.00 as well.

If you should have any further questions or concerns, please feel free to contact me.

Thank you,



Danielle Boggs
Operations Manager
Cunningham Energy, LLC
3230 Pennsylvania Ave.
Charleston, WV 25302
(304) 344-9291

Received

SEP - 9 2013

Office of Oil and Gas
WV Dept. of Environmental Protection