

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

April 23, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3503020, issued to HILDRETH, ROY G & SON INC, 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: MCCARTY #25

Farm Name: VALENTINE, BURL H. & KATHLE

API Well Number: 47-3503020 Permit Type: Vertical Well

Date Issued: 04/23/2014

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.

120

04/25/2014

WW - 2B (Rev. 8/10)

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

		-			36	02	W
Well Operato	or: Roy (G. Hildret	h & Son, Inc.	307492	Jackson	Ravenswood	Liverpool
				Operator ID	County	District	Quadrangl
Operator's V	Vell Numb	oer: C. S.	McCarty #25		3) Elevation:	865	
Well Type: (a	a) Oil <u>×</u>	or Ga	ns				
()	b) If Gas:	Produ	ction <u>×</u> / Un	derground Sto	rage	_	
		Deep	o/ S	Shallow x			
) Proposed Ta) Proposed To) Approximate) Approximate	otal Depth fresh wa	n: 2700 iter strata	Feet a depths: 100' Pitts	Formation at I	Proposed Tar Proposed Total	rget Depth: 2 al Depth: Bere	520 a
) Approximate	coal sea	m depth:	S: None Reported	1			
u) Approximal	te void de	eptns,(co	al, Karst, other):	None Known			
1) Does land	contain co	oal seam	s tributary to ac	tive mine? N	lo.		
		late W/ x-li	nd fracturing methink gel/sand or foar	m/sand.			
And the second second	SPECIFIC	E 4 THE 1 THE TATE		FOOTAGE	INTERVALS	S CEME	NT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	. Ft.)
Conductor	9 5/8	LS	36#	30	Pulled		
Fresh Water	7"	LS	17#	850	850	CTS+30%E	XCESS C
Coal							Q
Intermediate							7
Production	4 1/2	J-55	10.5#	2650	2650	160 c	u'V
Tubing						l l	recel.
Liners							APR -/
Packers: Kind							A

WW-2A 1). Date: 3-31-2014 (Rev. 6-07) 2.) Operator's Well Number C. S. MCCARTY #25 State County Permit 47-3.) API Well No .: 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: 5) (a) Coal Operator Name (a) Name VALENTINE FAMILY TRUST Address Address KATHRYN SUE MOORE, TRUSTEE 2139 DUTCH RIDGE ROAD (b) Coal Owner(s) with Declaration (b) Name PARKERSBURG, WV 26104 Address Name Address (c) Name Name Address Address 6) Inspector (c) Coal Lessee with Declaration JAMIE STEVENS Address Name HC 62 BOX 1-C Address **KENNA, WV 25248** Telephone 304-206-7775 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) 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 OFFICIAL SEAL NOTARY PUBLIC Well Operator Roy G. Hildreth & Son, Inc. STATE OF WEST VIRGINIA By: Patricia L. Hall Its: ROY G HILDRETH, PRESIDENT 5840 Arnoldsburg Rd. Arnoldsburg, WV 25234 Address Po Box 1007 My Commission Expires Jan. 3, 2022 Spencer, WV 25276 304-927-2130 Telephone Subscribed and sworn before me this 31st March 2014 Notary Public My Commission Expires 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 and Gas depprivacyofficer@wv.gov



Received

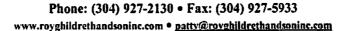
APR - 7 2014

Office of Oil and Gas WV Dept. of Environmental Protection



ROY G. HILDRETH AND SON, INC. OIL & GAS OFFICE LAND DEPARTMENT

LAND DEPARTMENT
758 Arnoldsburg Road • P.O. Box 1007 • Spencer, WV 25276





Valentine Family Trust Kathryn Sue Moore, Trustee 2139 Dutch Ridge Road Parkersburg, WV 26104

April 3, 2014

Re: Surface Owner Notification C. S. McCarty #24 and #25

Dear Mrs. Moore:

Roy G. Hildreth and Son, Inc is the active operator of an oil and gas lease in which records show that you are the current surface owner. We are applying for two New Well Drilling Permits with the West Virginia Department of Environmental Protection, Office of Oil and Gas. We plan to name the wells C. S. McCarty #24 and #25. As the surface owner of land located on Map 37 Parcel 7 in Ravenswood District, Jackson County we are required to notify you concerning our proposed well work.

Please find enclosed your copy of the permit applications. It describes the work that will be performed on the wells including the construction and reclamation plans. Please read over the "Surface Owner Waiver" forms enclosed which instructs you of your rights concerning our permit applications. After reviewing all of the enclosed documentation and have no objection and are in agreement with our plans, please sign the "Surface Owner Waiver" and return it in the enclosed, self-addressed, postage paid envelope. All other forms are for your records. If you have any questions, please contact us by the contact information above.

Should you no longer be the surface owner of this property, please notify our Land Department at 304-927-2130 so that the correct person or persons can be notified. Thank you for your time and consideration in this matter.

Sincerely,
Roy A. Heldreth Peceived

Roy G. Hildreth

President

APR - 7 2014

RGH:plh Enclosures

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

WW-2A1 (Rev. 1/11)

Operator's Well Number	C. S. MCCARTY #2
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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
East West Resources Inc.	Krakrow, Inc.	WI	247/903
Daniel and Richard Moore, d/b/a			
Summit Energy		RI 1/8	LB 18/99
Krakrow, Inc.	Roy G. Hildreth & Son, Inc.		Agreement Attached

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

The permit app licant for the proposed well work addressed in this application hereby 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 appropriate aut hority before the affected activity is initiated.

Well Operator:

By: Its:

Roy G. Hildreth & Son, Inc.

PRESIDENT

3503016

AGREEMENT

THIS AGREEMENT made this 1st day of June, 2007, by and between Krakrow, Inc., a West Virginia Corporation, as Lessor and Roy G. Hildreth & Son, Inc., a West Virginia Corporation, as Lessee, in which the Krakrow, Inc. hereby states that they are giving Roy G. Hildreth & Son, Inc. right to drill and operate on their said C. S. McCarty Lease, 235 Acres, on the waters of Buck Run, Ravenswood District, Jackson County, West Virginia.

WITNESS the following signatures and seals:

Roy G. Hildreth, President

By: Heep D. The State of Roy G. Hildreth, President

STATE OF WEST VIRGINIA,
COUNTY OF ROANE, to-wit:

I. TERRI A Me Millian , a notary public within and for said county and state aforesaid, do hereby certify that Jon R. Hildreth, whose name is signed to the foregoing writing, bearing the 1st day of June, 2007, on behalf of Krakrow, Inc, as its President has this day, in my said county, before me, acknowledged said writing.

Given under my hand this straday of June, 2007.

My commission expires:

August 11, 2013

Office of Oil & Gas

Office of Oil & Gas

August 11, 2013

My commission expires August 11, 2013

My commission expires August 11, 2013

August 11, 2013

August 11, 2013

STATE OF WEST VIRGINIA, COUNTY OF ROANE, to-wit:

I. TERRIA MONILLAW, a notary public within and for said county and state aforesaid, do hereby certify that Roy G. Hildreth, whose name is signed to the foregoing writing, bearing the 1st day of June, 2007, on behalf of Roy G. Hildreth and Son, Inc., as its President has this day, in my said county, before me, acknowledged said writing to be the act and deed of said corporation.

Given under my hand this day of June, 2007.

My commission expires:

Persi a McMiller NOTARY PUBLIC

APR - 7 2014

OFFICIAL SEAL
NOTARY PUBLIC
STATE COMPST VERGINA
TERFO MODIFICAN
17 COMPLETT ROAD
SPENCER, WV 28276
My commission expires August 11, 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-2B1 (5-12)

Well	No.	C. S. McCarty #25	
			_

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 REIC Laboratory Po Box 286, Beaver, WV 25813

Sampling Contractor

Roy G. Hildreth & Son, Inc.

Well Operator Roy G. Hildreth & Son, Inc.

Address

Po Box 1007

Spencer, WV 25276

Telephone

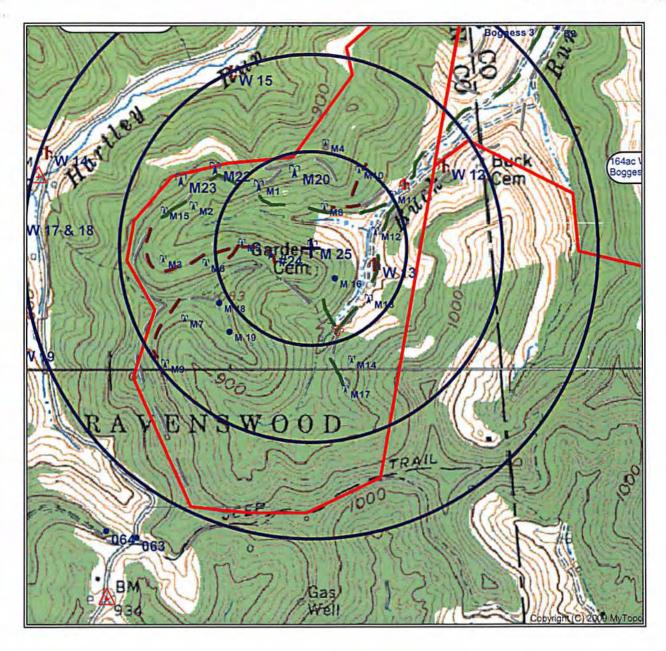
304-927-2130

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.

not testing

Received

Office of Oil and Gas PAY Dept. of Environmental Protection





04/25/2014

WW-9 (5/13)

My commission expires

	Page /	of 4
API Number 47 - 035		
Operator's Well N	No. C. S. McCarty #	25

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

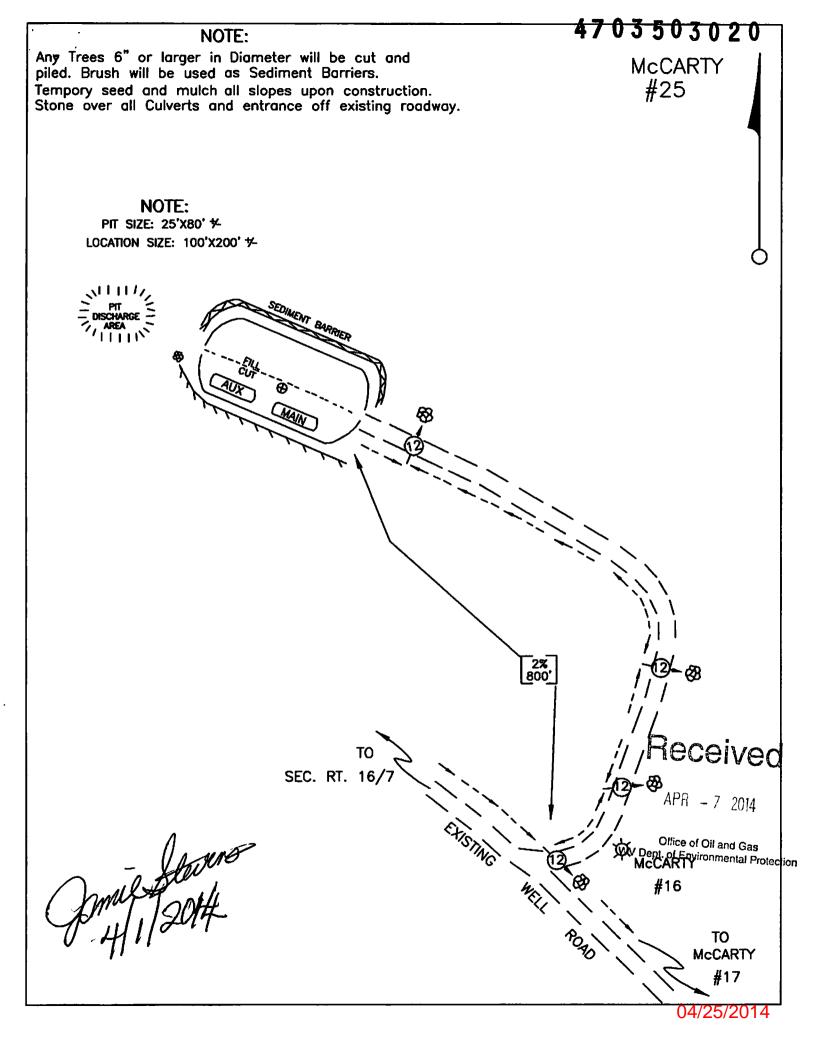
Operator Name Roy G. Hildreth & Son, Inc Watershed (HUC 10) Buck Run of Right Fork Sa Elevation 865 Coun Do you anticipate using more than 5,000 bbls of will a pit be used for drill cuttings? Yes X If so, please describe anticipated pit was Will a synthetic liner be used in the pit?	y Jackson vater to complete th No e: Gell Water, Dril Yes _ No	Dist	rict_Ravenswood ? YesN	
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Will a pit be used for drill cuttings? Yes x If so, please describe anticipated pit was	e: Gell Water, Dril	l Cuttings, Freshwate	r	No_x
		77 30 50 50 50 50	ml.? 20	
Proposed Disposal Method For Treated Land Application Underground Injection Reuse (at API Numbe Off Site Disposal (Sup Other (Explain	ply form WW-9 fo	r disposal location))
Will closed loop system be used? No				
Drilling medium anticipated for this well? Air, fi	eshwater, oil based.	etc. Freshwater		
-If oil based, what type? Synthetic, petr	oleum, etc			
Additives to be used in drilling medium? Clay Sta	KCL, Soap			
Drill cuttings disposal method? Leave in pit, land	fill, removed offsit	e, etc. Leave in pit		
-If left in pit and plan to solidify what m	edium will be used?	e (cement, lime, sawo	lust) Dirt	
-Landfill or offsite name/permit number				
I certify that I understand and agree to to on August 1, 2005, by the Office of Oil and Gas provisions of the permit are enforceable by law. law or regulation can lead to enforcement action. I certify under penalty of law that I happlication form and all attachments thereto a obtaining the information, I believe that the in penalties for submitting false information, include Company Official Signature	of the West Virginia Violations of any live personally exam and that, based on formation is true, a ng the possibility of	Department of Envir term or condition of mined and am famili my inquiry of those accurate, and comple	onmental Protection the general permit a ar with the informa individuals immed te. I am aware tha	n. I understand that the and/or other applicable tion submitted on this diately responsible for
Company Official (Typed Name) ROY G. HILDI	ETH, PRESIDENT	1		Office of Oil and Gas
Company Official Title Roy G. Hildreth & Son, In			Ward	Office of Oil and Gas V Dept. of Environmental Protection
Subscribed and sworn before me this 31st Tatrice L. Hall	day of March		, 20 14 Notary Public	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Patriola L. Hall 5840 Arnoldsburg Rd. Arnoldsburg, WV 25234 My Commission Expires Jan. 3, 2

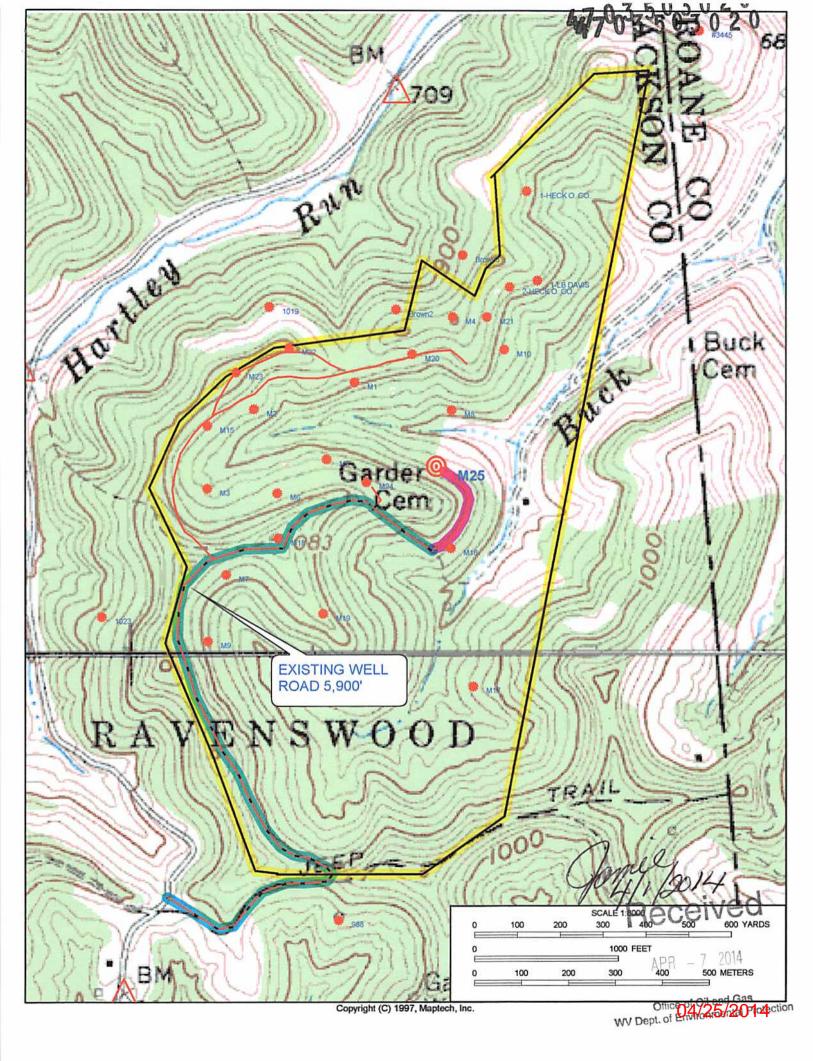
Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 5.5 Lime 3 Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 0.25 lbs/acre (500 lbs minimum) Mulch Hay Seed Mixtures Seed Mixtures Area I Seed Type Seed Type Ladino Clover 5 Red Top Clover 15 Ky 31 40 Annual RHY 15 Annual Rhy 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: Attach: Drawing(s) May 14 May 15 Attach: Drawing(s) of road, location,pit and proposed area for land application.	Lime 3 Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 0.25 Ibs/acre (500 lbs minimum) Mulch Hay 2 Tons/acre Seed Mixtures Area I Seed Type Orchard Grass 25 Ladino Clover 5 Ladino Clover 5 Annual RHY 15 Annual Rhy 15 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Form WW-9		Operator's \	Well No. C. S. McCarty
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Title: Date: 4/1/2014 Dags		Title:Field Reviewed? () Yes (Date:	7/4 Rece

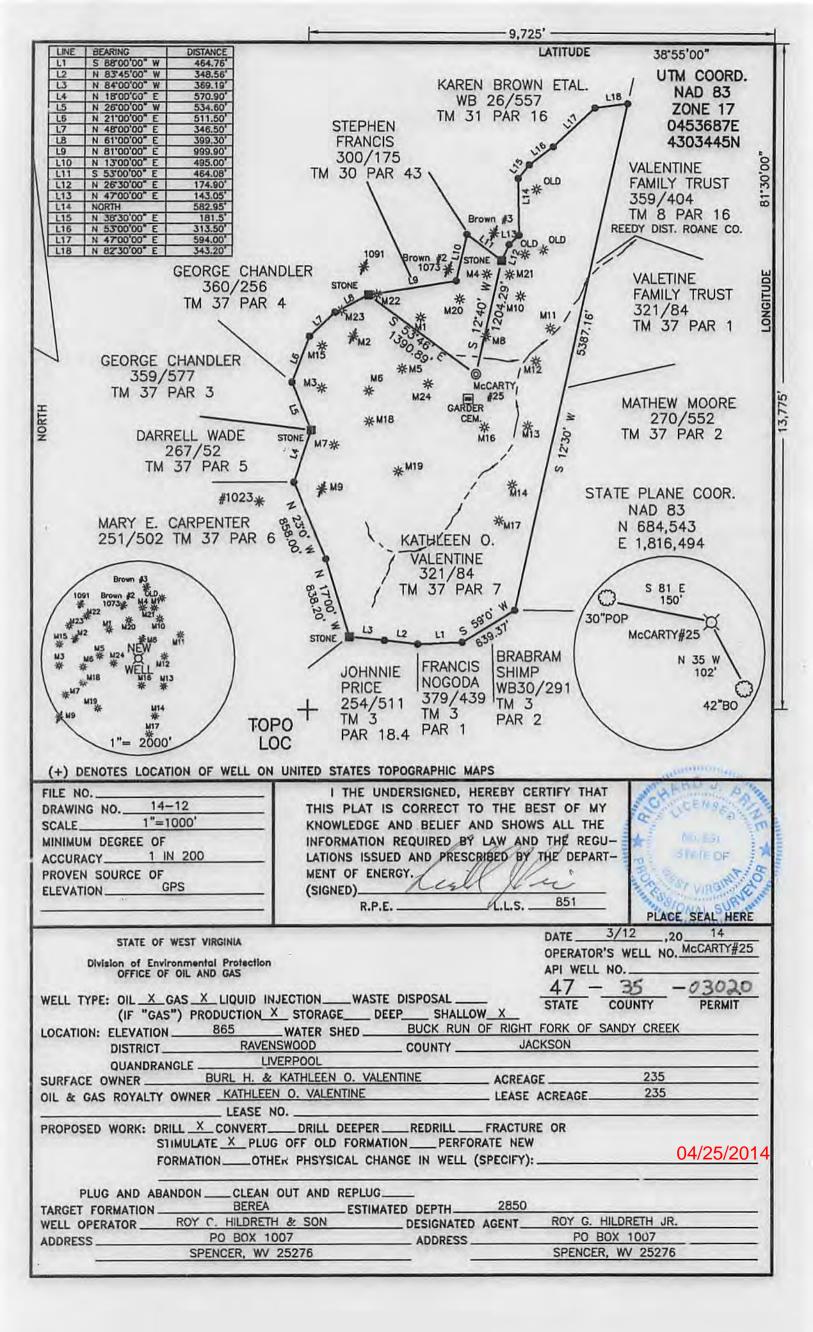
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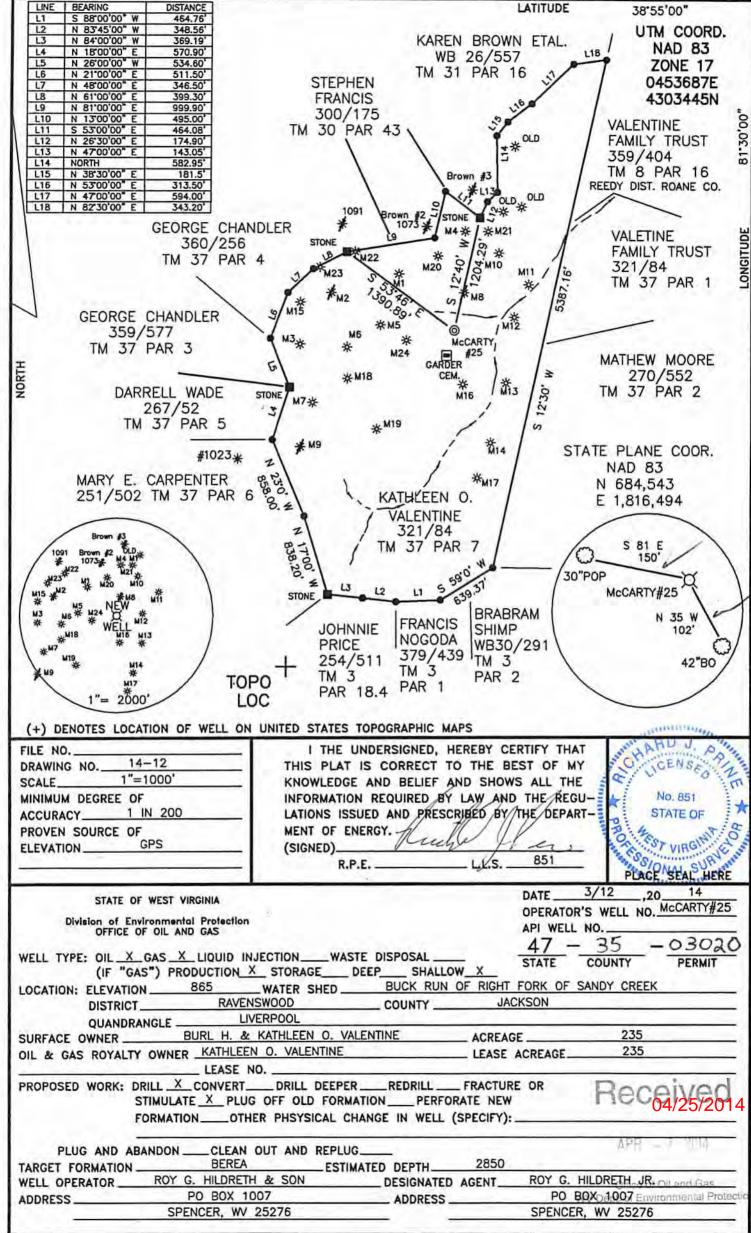
Office of Oil and Gas
WV Dept. of Environmental Protection

APR - 7 2014





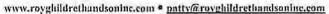






ROY G. HILDRETH AND SON, INC. OIL & GAS OFFICE LAND DEPARTMENT

758 Arnoldsburg Road • P.O. Box 1007 • Spencer, WV 25276 Phone: (304) 927-2130 • Fax: (304) 927-5933





STATE OF WEST VIRGINIA DIV OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 601 57TII STREET CHARLESTON, WV 25304

April 3, 2014

Re: Well Work Permits

Attn: Kay Holtsclaw

Dear Ms. Holtsclaw:

Please find enclosed our "Notice and Application for a Well Work Permits" for C. S. McCarty #24 and #25. Our check in the amount of \$1,300.00 (\$650.00 each) for your fee is also enclosed.

If you have any questions, please contact me at the above number.

Sincerely,

Roy D. Hildret (Pl) Roy G. Hildreth President/Agent

RGH:plh Enclosures

Cert Mail No. 7009-0820-0000-6454-3389

Received Office of Oil and Gas
Office of Oil and Gas
Office of Oil and Gas