



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

June 05, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10300860, issued to AMERICAN ENERGY-MARCELLUS, LLC, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.


James Martin
Chief

Operator's Well No: 8
Farm Name: McCOY HEIRS
API Well Number: 47-10300860
Permit Type: Plugging
Date Issued: 06/05/2015

Promoting a healthy environment.

06/05/2015

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B
Rev. 2/01

- 1) Date April 10, 2015
- 2) Operator's
Well No. McCoy Heirs 8
- 3) API Well No. 47-103 - 00860

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil / Gas / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow
- 5) Location: Elevation 1325' Watershed Piney Fork
District Green County Wetzel Quadrangle Pine Grove 7.5'
- 6) Well Operator American Energy - Marcellus, LLC 7) Designated Agent Eric Gillespie
Address 3501 NW 63rd Address 103 Taryn Lane
Oklahoma City, OK 73116 Cross Lanes, WV 25313
- 8) Oil and Gas Inspector to be notified Name Derek Haught 9) Plugging Contractor Name To be determined upon approval of permit.
Address P.O. Box 85 Address _____
Smithville, WV 26178

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached plugging procedure and schematic.

* 1) IF 2 3/8" TUBING WOULD NOT GO IN WELL DUE TO BENT CASING, THEN IT MAY BE NECESSARY TO STRAIGHTEN CASING BEFORE TRYING TO SET A BRIDGE PLUG.

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- STEP 1. ATTEMPT TO RELEASE PACKER AND PULL 5 3/16" CASING. APR 21 2015
- 2. IF ATTEMPT FAILS, CUT 5 3/16" OFF WITH CHEMICAL CUTTER OR MECHANICAL KNIFE. (DON'T BE POSSIBLE TO RIP COLLARS)
 - * MUST TRY TO REMOVE CASING.
 - 3. T/H W/ WORK STRING TO ABOVE SHOT # LOAD WITH GEL. (6%)
 - 4. SET CIBP @ ~ 2300'. WITH 100' OF CLASS CEMENT ON TOP. (PLUG 1)
 - 5. PLUG 2 SHALL BE ACROSS ELEVATION FROM 1350' - 1250'.
 - 6. PLUG 3 SHALL BE FROM 250' TO SURFACE.
 - 7. SET MONUMENT PER STATE CODE.

J. W. M.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date _____

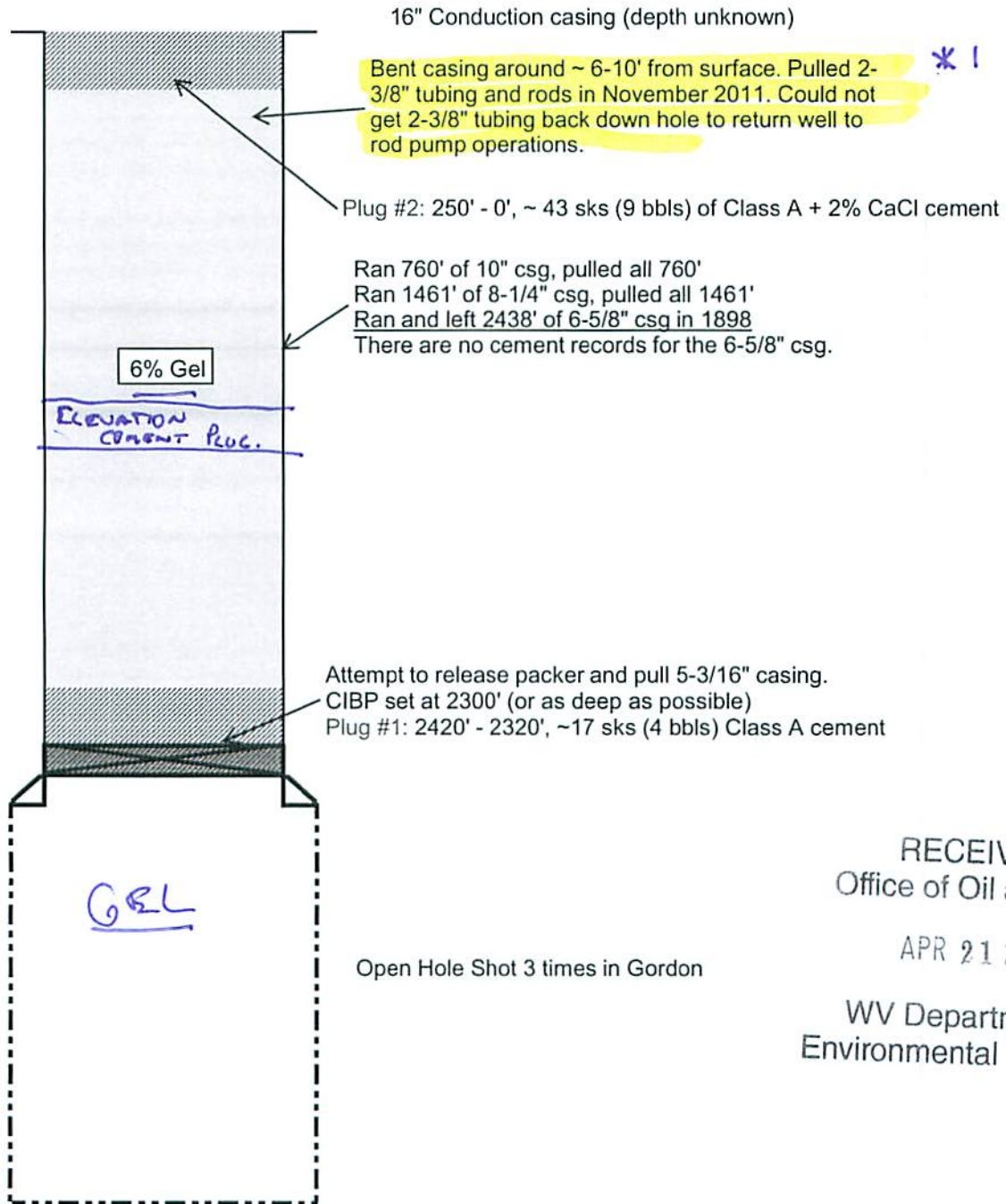
WV – Wetzel – Stringtown Field – MCCOY HEIRS 8 – API No. 47-103-00860

American Energy Marcellus

MCCOY HEIRS 8 - Proposed WBD

Permit Number 47-103-00860

Wetzel County, WV – Stringtown Field



J.W.M.

Open Hole Shot 3 times in Gordon

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WV Department of
Environmental Protection

TD = 3083'

0852401
 FORM 1241 JAN 9-88 M.G. SOUSA
WELL DATA CARD 103-0860 DIST BN
 FARM NAME MCCOY HERIS WELL NO. 8 DATE COMP. 4/14/98
 LOCATION: DISTRICT Green COUNTY Wetzel STATE W. Va. D. D. _____
 PRODUCING SAND Stray TOP 3031 BOTTOM 3046 PGH. COAL 970 ELEVATION _____
Gordon 3055 3078
 PAY SAND: TOP gas 3032 BOTTOM _____ TOP oil 3063 BOTTOM _____
 DRILLED DEEPER: SAND _____ TOP _____ BOTTOM _____ PAY: TOP _____ BOTTOM _____
 INITIAL PROD.: GAS _____ MCF OIL 45 B/P. ROCK PRESSURE _____ TOTAL DEPTH 3083

CASING RECORD				SHOOTING RECORD				FRACTURING							
DATE	SIZE	RUN	PULLED	DATE	QTS.	TOP	BOTTOM	DATE	SIZE: GEL	GAL.	SAND	LBS.	TYPE GEL	BREAKDOWN PR.	ROCK PRESSURE
	10	760	760	10/5/98	30										
	8 1/2	1461	1461	5/10/01	40	3058									
	6-5/8	2438		12/9/03	110	3058									
1-28-85	5-3/16	2442													

PRODUCTION DATA *M = Long this yr*

YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.	YEAR	BBLG.
1910		1920		1930	231	1940	155	1950	148	1960	78	1970	50	1980	0
11		21		31	144	41	153	51	99	61	71	71	23	81	0
12		22		32	188	42	150	52	112	62	84	72	13	82	0
13		23		33	176	43	156	53	102	63	106	73	0	83	0
14		24		34	65	44	159	54	118	64	108	74	0	84	0
1915		1925		1935	88	1945	156	1955	110	1965	422 107	1975	0	1985	0
16		26		36	157	46	158	56	102	66	65	76	0	86	0
17		27		37	170	47	155	57	107	67	41	77	0	87	0
18		28		38	200	48	152	58	92	68	44	78	0	88	0
19		29		39	201	49	158	59	106	69	77	79	0	89	0

REMARKS:

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06/05/2015
 WV Department of
 Environmental Protection

10300 860 P

FORM P. O. 642A

FARM McCOY HEIRS WELL # 8 ACRES 150 LEASE NO. 25040

TOWNSHIP OR DISTRICT Green COUNTY Netzel STATE W. Va. N. 5 S. E. W. 4

RIG COMMENCED 7/28/98 COMPLETED 10/4/98 CONTRACTOR W. T. Potts

D. D. COMMENCED _____ COMPLETED _____ CONTRACTOR _____

FORMATION					CASING RECORD				
KIND	TOP	BOTTOM	STEEL LINE MEASUREMENT	REMARKS	SIZE	BOTTOM CASING (STEEL LINE)	PUT IN WELL (TALLY MEAS.)	PULLED (TALLY MEAS.)	LEFT IN WELLS AMFD.
Pgn Coal	970				Cond		16		
Big Injun	2260	2440			10		760	760	
Stray Sand	3031	3046			8 1/2		1461	1461	
Gas	3032			Show Gas	6-5/8		2438		
Gordon Sand	3055	3078			5-3/16"		2442		
Oil	3063								
PACKERS									
KIND		SIZE		DEPTH SET		DATE SET			
Hook Wall		5-3/16"		2442'		1-28-31			
TORPEDO RECORD									
DATE SHOT	NO. QTS.	SIZE SHELL	TOP SHOT	BOTTOM	RESULT				
10/5/98	30								
5/10/01	40	2 1/2"	3058						
12/9/05	110		3058						
ABANDONMENT RECORD									
FILLED WITH	FROM	TO	SIZE	PLUG KIND	DEPTH				
REMARKS									
Put in 150' 5x5 1/2" F.J. Liner on 5-3/16x6-C.C. Packer, 8/8/06.									
Put in 249' (12 Jts) 5-3/16" (Casings) Liner on Dbl Reeler Packer, top 1700' 10/17/11. Hole not reduced.									
Pulled Jan. 25, 1935									
TOTAL DEPTH 3082									
PRODUCTION RECORD									
24 HOURS BEFORE SHOT		SAND 45		BBL'S					
24 HOURS AFTER SHOT		SAND		BBL'S					
GAS TEST									
APPROVED BY _____ SUPT.									

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WV Dept of Environmental Protection
06/05/2015

249
150
399

1700
399
2099

1930	231
1931	144
1932	188
1933	176
1934	65
1935	88
1936	157
1937	170
1938	206
1939	201
1940	155
1941	153
1942	150
1943	156
1944	159
1945	158

1946 158
 1947 155
 1948 152
 1949 158
 1950 148

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APR 21 1945

10300860F

WW-4A
Revised 6-07

1) Date: 4/10/2015
2) Operator's Well Number
McCoy Heirs 8

3) API Well No.: 47 - 103 - 00860

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL


4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Coastal Lumber Company</u>	Name _____
Address <u>P.O. Box 979</u>	Address _____
<u>Buckhannon, WV 26201</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithfield, WV 26178</u>	Address _____
Telephone <u>304-306-7613</u>	

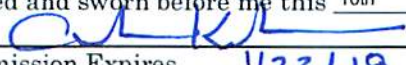
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator American Energy - Marcellus, LLC
 By: Trent L Carroll 
 Its: Senior Regulatory Analyst
 Address 3501 NW 63rd
Oklahoma City, OK 73116
 Telephone 405-607-5476

Subscribed and sworn before me this 10th day of April
 Notary Public
 My Commission Expires 1/23/18



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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 depprivacyoffier@wv.gov.

WV Department of
Environmental Protection
06/05/2015

10300860P

7014 2120 0002 5040 2387

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Trout
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 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

OKLAHOMA CITY, OK
 APR 17 2015
 USPS 73118-9999

Sent To *Coastal Lumber Company*
 Street & Apt. No.,
 or PO Box No. *PO Box 979*
 City, State, ZIP+4 *Buckhannon, WV 26201*

PS Form 3800, July 2014 See Reverse for Instructions

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WV Department of
Environmental Protection
06/05/2015

WW-9
(9/13)

API Number 47 - 103 - 00860
Operator's Well No. McCoy Heirs B

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name American Energy - Marcellus, LLC OP Code 494510050

Watershed (HUC 10) Piney Fork Quadrangle Pine Grove 7.5'

Elevation _____ County Wetzel District Green

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No 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 No expected waste to dispose other than produced water.)

DMH
4-24-15

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

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? N/A

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 Trent L. Carroll

Company Official (Typed Name) Trent L. Carroll

Company Official Title Sr Regulatory Analyst

Subscribed and sworn before me this 10th day of April, 2015

[Signature] Notary Public

My commission expires 1/23/18



Form WW-9

Operator's Well No. McCoy Heirs 8

American Energy - Marcellus, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.7 acres Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

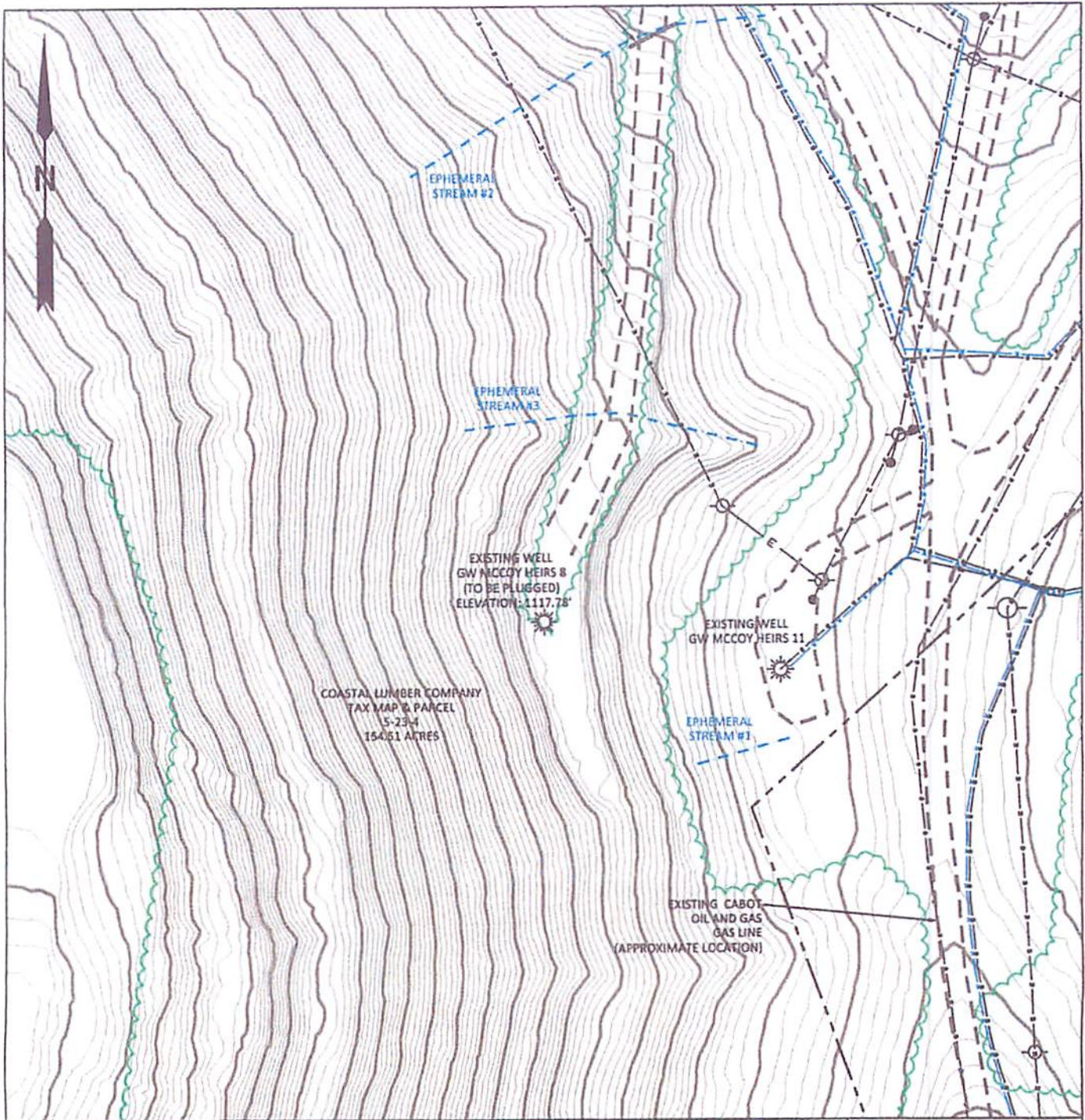
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil + Gas Inspector Date: 4-24-15

Field Reviewed? Yes No



<p>LEGEND</p> <ul style="list-style-type: none"> TREE LINE PROPERTY LINE EXISTING ROAD WATERCOURSE EXISTING ELECTRIC LINE EXISTING UTILITY POLE EXISTING GUY WIRE EXISTING GAS LINE EXISTING WATERLINE SEEP SPRING 		<p>EXHIBIT "A"</p> <p>SCALE BAR: 1"=80'</p> <p>0' 80' 160' 240'</p>		<p><i>DMH</i> <i>4-24-15</i></p>
<p>Applicant / Well Operator Name AMERICAN ENERGY MARCELLUS, LLC</p>		<p>Project Name McCoy Heirs & Exhibit</p>		
<p>Address: 1000 UTICA WAY CAMBRIDGE, OH 43725</p>		<p>County - Code WETZEL-103 & TYLER-095</p>	<p>Municipality GREEN & McELROY DISTRICTS</p>	
<p>USGS 71/2 Quadrangle Map Name CENTER POINT & PINE GROVE</p>			<p>Map Section 2.5,8</p>	

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-00860 WELL NO.: 8

FARM NAME: McCoy Heirs

RESPONSIBLE PARTY NAME: American Energy - Marcellus, LLC

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Pine Grove 7.5'

SURFACE OWNER: Coastal Lumber Company

ROYALTY OWNER: American Energy - Marcellus, LLC

UTM GPS NORTHING: 4373222.97

UTM GPS EASTING: 526425.29 GPS ELEVATION: 1117.78'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.


Signature

Senior Regulatory Analyst
Title

2/16/15
Date



AMERICAN ENERGY
MARCELLUS

April 10, 2015

West Virginia Department of Environmental Protection
Mr. Jeff McLaughlin
601 57th Street, SE
Charleston, WV 25304

Re: Application to Plug and Abandon a Well
McCoy Heirs 8

Dear Mr. McLaughlin

American Energy – Marcellus, LLC respectfully submits an application to Plug and Abandon the McCoy Heirs 8 in Wetzel County, West Virginia. Enclosed for your review are:

- Forms WW-9, WW-4(A), WW-4(B), WW-6, WW-7
- A topographic map and well record
- A copy of the certified mail receipt

If you need any additional information, please feel free to contact me.

Best Regards,

Trent Carroll
Sr. Regulatory Analyst
trent.carroll@aep-lp.com
Cell 405-693-4931
Office 405-607-5476

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WV Department of
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Cc: Derek Haught, Inspector
Coastal Lumber Company, Certified Mail