



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, November 07, 2017
WELL WORK PERMIT
Vertical / Plugging

SOUTHEASTERN LAND, LLC
PO BOX 9

NAUGATUCK, WV 25685

Re: Permit approval for C-39
47-059-01050-00-00

This well work permit 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 any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of 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.

Per 35 CSR 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- 0450.

James A. Martin
Chief

Operator's Well Number: C-39
Farm Name: COTIGA DEVELOPMENT CO.
U.S. WELL NUMBER: 47-059-01050-00-00
Vertical / Plugging
Date Issued: 11/7/2017

Promoting a healthy environment.

11/10/2017

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.

5901050P

WW-4B
Rev. 2/01

1) Date October 9, 2017, 2017
2) Operator's
Well No. C-39
3) API Well No. 47-059-01050

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 1640 Watershed Laurel Fork
District Harvey County Mingo Quadrangle Myrtle

6) Well Operator Southeastern Land, LLC 7) Designated Agent Gary White
Address P.O. Box 9 Address P.O. Box 9
Naugatuck, WV 25685 Naugatuck, WV 25685

8) Oil and Gas Inspector to be notified Name Allen Flowers
Address 601 57th St
Charleston, WV 25304
9) Plugging Contractor Name R&R Well Service L.L.C.
Address 42 Lynch Ridge Road
Walton, West Virginia, WV 25286

10) Work Order: The work order for the manner of plugging this well is, as follows:
RIH with tubing to 4949. Pump 6% gel and cement 4949 to 4800. Pull tubing to ^{4254'}~~3472~~. Pump cement ^{4154 to 4154'}~~3472 to 3372~~. Pull tubing out.
WOC for 4 hrs and tag plug at ^{4154'}~~3372~~. Add cement if needed. Free point 4 1/2 @ approx 3000' +/- . Pull 4 1/2 out of hole. Run tubing to 3050'
Cement 3050 to 2950 across cut. Pull tubing to 2545. Cement 2545 to 2445 across 8 5/8 seat. Pull tubing to 1690.
Cement 1690 to 1590 across elevation. Pull tubing to 1040. Cement 1040 to 875 across coal.
Pull tubing to 640. Cement 640 to 700 across fresh water zone.
Pull tubing to 440. Cement 440 to 290 across coal. Pull tubing to 100' and cement to surface.
Using class A cement and 6% gel between all plugs. Set monument according to state regulations

TOP OF PERFORATIONS

J.W.M.

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WV Department of
Environmental Protection

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

Work order approved by inspector  Date 10-18-17

11/10/2017

5901050P



IV-35
(Rev 8-81)

Rev.
11/27/84
FERC

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 14, 1983
Operator's
Well No. C-39
Farm _____
API No. 47 - 059 - 1050

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1640' Watershed Laurel Fork
District: Harvey County Mingo Quadrangle Myrtle

COMPANY Seneca-Upshur Petroleum, Inc.
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
DESIGNATED AGENT Joseph G. Hager
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
SURFACE OWNER Georgia-Pacific
ADDRESS 133 Teachtree Street, N.W., Atlanta, GA
MINERAL RIGHTS OWNER Cotiga Development Company
ADDRESS 2nd Floor Rear, 14 E. Lancaster Ave.
Poole, Pennsylvania 19301
OIL AND GAS INSPECTOR FOR THIS WORK Arthur
St. Clair ADDRESS P.O. Box 157, Brenton, WV
PERMIT ISSUED 4/21/83
DRILLING COMMENCED 9/10/83
DRILLING COMPLETED 9/21/83

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	10
13-10"			
9 5/8			
8 5/8	2496	2496	500
7			
5 1/2			
4 1/2		4949	85
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5000 feet
Depth of completed well 5006 feet Rotary x / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: 330', 386', 928', 987' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3422 feet
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 959 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 510 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

MINGO-1050

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11/19/2017
WV Department of Environmental Protection

(Continue on reverse side)

5901050A

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

FOAM FRAC:

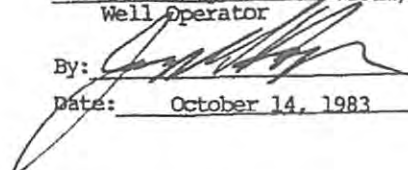
DATE: 9/29/83
WATER: 812 BBLs.
SAND: 175,000#
PERFS: 4254' - 4832' 33 .49 Perfs
NITROGEN: 18,640 CCF

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	330	
Coal			330	333	
Sand			333	386	
Coal			386	390	
Sand & Shale			390	928	
Coal			928	930	
Sand & Shale			930	987	
Coal			987	990	
Sand & Shale			990	2472	
Big Lime			2472	2750	
Big Injun			2750	2786	
Sand & Shale			2786	2918	
Weir			2918	2970	
Sand & Shale			2970	3320	
Sudbury Shale			3320	3422	
Gray Shale			3422	4260	
Brown Shale			4260	4834	
Marcellus			4834	5006	T.D.

(Attach separate sheets as necessary)

Seneca-Upshur Petroleum, Inc.
Well Operator

By: 
Date: October 14, 1983

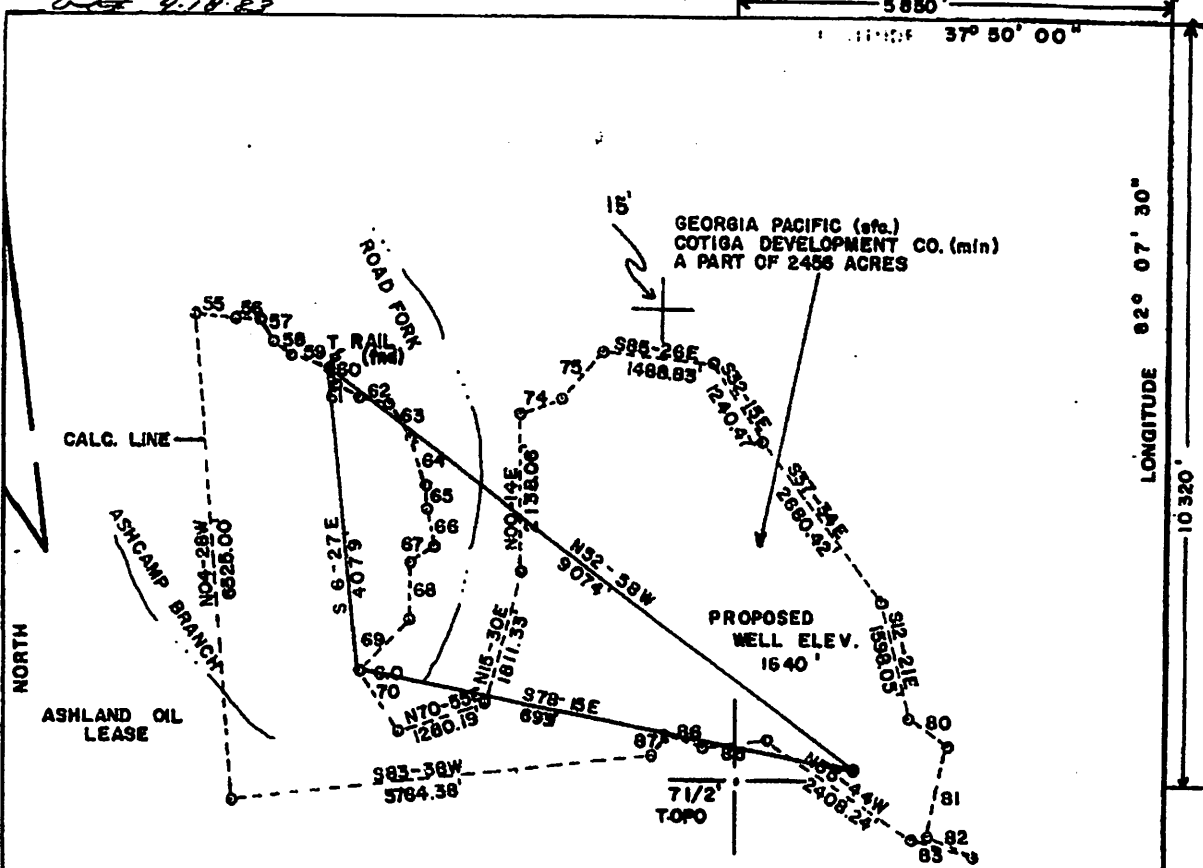
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Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

MAINTENANCE
Environmental Protection

59 01050A



55 = S84-23E, 576.91'	67 = S66-10W, 398.23'	87 = S31-25W, 292.66'
56 = N69-55E, 309.69'	68 = S01-03W, 741.78'	
57 = S38-34E, 335.65'	69 = S43-29W, 951.27'	
58 = S47-51E, 297.79'	70 = S29-19E, 988.79'	
59 = S72-41E, 570.52'	74 = N69-32E, 601.12'	
60 = S28-36E, 233.12'	75 = N39-31E, 836.37'	
61 = S66-14E, 358.33'	80 = S54-18E, 656.34'	
62 = S79-27E, 398.30'	81 = S12-31W, 1261.68'	
63 = S34-33E, 537.76'	82 = S68-23E, 676.88'	
64 = S17-30E, 685.36'	83 = N75-37W, 869.74'	
65 = S02-36E, 317.36'	85 = S83-47W, 883.60'	
66 = S12-01E, 491.26'	86 = N70-32W, 528.67'	

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1 in 600
 PROVEN SOURCE OF ELEVATION USGS BM TRACEFORK 686, USGS MYRTLE QUAD

I 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 DEPARTMENT OF MINES.
 (SIGNED) Joseph D. Hager
 R.P.E. _____ L.I.S. 624
Karlson Surveys & Consulting, Inc.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 4, 1983
 OPERATOR'S WELL NO. C-39
 API WELL NO. _____
47 - 059 - 1050
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1640' WATER SHED LAUREL FORK
 DISTRICT HARVEY COUNTY MINGO
 QUADRANGLE MYRTLE
 SURFACE OWNER GEORGIA PACIFIC ACREAGE A PART OF 2456
 OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE A PART OF 2456
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPL...
 TARGET FORMATION MARCELLUS
 OPERATOR SENECA ENERGY SERVICES, INC. SIGNED AGENT JOSEPH HAGER
 ADDRESS P.O. BOX 2048 ADDRESS P.O. BOX 2048

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 11/10/2017
 WV Department of Environmental Protection

59 01050P

WW-4A
Revised 6-07

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Office of Oil and Gas

OCT 18 2017

1) Date: October 9, 2017
2) Operator's Well Number C-39

WV Department of
Environmental Protection

3) API Well No.: 47 - 059 - 01050

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>West Virginia Division of Natural Resources</u>	Name <u>Southeastern Land, LLC.</u>
Address <u>324 4th Avenue - Building 74, Room 200</u>	Address <u>P.O. Box 9</u>
<u>South Charleston, WV 25303</u>	<u>Naugatuck, WV 25685</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Barnabus Land Company</u>
(c) Name _____	Address <u>PO Box 830</u>
Address _____	<u>Belfry, KY 41514</u>
6) Inspector <u>Allen Flowers</u>	(c) Coal Lessee with Declaration
Address <u>601 57th St</u>	Name <u>Southeastern Land, LLC.</u>
<u>Charleston, WV 25304</u>	Address <u>P.O. Box 9</u>
Telephone <u>304-552-8303</u>	<u>Naugatuck, WV 25685</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	<u>Southeastern Land, LLC</u>
	Signature:	<u>Paul Horn</u> <i>Paul Horn</i>
	Address:	<u>Attorney-in-Fact</u>
	Address:	<u>P.O. Box 9</u>
	Telephone:	<u>Naugatuck, WV 25685</u> <u>304-235-7170</u>

Subscribed and sworn before me this 10 day of OCTOBER, 2017
ALB Notary Public
My Commission Expires AUG 2, 2023

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 depprivacyofficer@wv.gov.

11/10/2017

LIMITED POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that **Southeastern Land, LLC** ("Southeastern"), a Kentucky limited liability company, hereby constitutes and appoints **Paul B. Horn**, an employee of Matrix Energy, LLC, a Kentucky limited liability company and affiliate of Southeastern, its true and lawful attorney-in-fact and agent, with full power and authority to execute and deliver on behalf of Southeastern, all mining permit and related documentation required by the West Virginia Department of Environment Protection, or any other state or federal agency in order to participate in mining activities in State of West Virginia.

This Power of Attorney shall be effective as of its date of execution and shall remain in effect until revoked in writing. No person acting in reliance upon this power shall be charged with notice of any revocation hereof in the absence of actual knowledge of such revocation.

It is Southeastern's intention to grant to its attorney-in-fact full and complete authority to act for it and in its stead in the specific matter above described. In no event shall persons relying on this Power of Attorney be required to ascertain the authority of Southeastern's attorney-in-fact to act hereunder, and all persons dealing with said attorney-in-fact shall be entitled, in the absence of actual knowledge of revocation, to rely upon the authority of such person, and the acts of such person shall bind Southeastern and acquit persons dealing with my said attorney-in-fact to the same extent as if Southeastern had been acting in its own behalf.

IN TESTIMONY WHEREOF, witness my signature this 1st day of July, 2016

Southeastern Land, LLC

By: James H. Booth
James H. Booth, President

STATE OF KENTUCKY)
) SCT.
COUNTY OF MARTIN)

The foregoing Limited Power of Attorney was subscribed, sworn to and acknowledged before me on this the 1st day of July, 2016, by James H. Booth, President of Southeastern Land, LLC, a Kentucky limited liability company, for and on behalf of said company

My Commission Expires:
08-18-2017

Cynthia Gline
Notary Public, State at Large, Kentucky

THIS INSTRUMENT PREPARED BY:
Tiffany J. Fannin
Tiffany J. Fannin
cyndLegal Department
2408 Sir Barton Way, Suite 325
Lexington, KY 40509



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WV Department of
Environmental Protection

59 01050P

SURFACE OWNER WAIVER

Operator's Well
Number

C-39

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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OCT 18 2017
WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION, ✓

_____	Date _____	Name _____	West Virginia Division of Natural Resources
Signature		By <u>Joe T. Sweeney</u>	
		Its _____	Date _____

Signature Joe T. Sweeney Date 10-10-17
11/10/2017

API No. 47-059-01050 P
 Farm Name CATIGA DEVELOPMENT Co.
 Well No. C-39

**INSTRUCTIONS TO COAL OPERATORS
 OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator X / owner / lessee X / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 10/10/17

Southeastern Land, LLC.
 By: Paul B. Horn *Paul B. Horn*
 Its Attorney-in-Fact

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 Office of Oil and Gas

OCT 18 2017

WV Department of
 Environmental Protection

10/10/2017

WW-4B

API No. 47-059-01050 P
Farm Name _____
Well No. C-39

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

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WAIVER

The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

Barnabus Land Company

By: _____

Its _____

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Office of Oil and Gas

OCT 18 2017

WV Department of
Environmental Protection
11/10/2017

October 17, 2017

Southeastern Land, LLC
P.O. Box 9
Naugatuck, WV 25685

Department of Environmental Protection
Office of Oil & Gas
601 57th ST
Charleston, WV 25304

Dear sir or madam:

I, Larry Todd Stanley, a representative of Southeastern Land, LLC (SEL) do hereby swear and affirm that a copy of completed forms WW-4B, WW-7, WW-9-GPP and their applicable attachments was hand delivered to a representative of Barnabus Land Company's vice-president of record, Michael R. Blackburn, on October 12, 2017. On October 13, 2017 a copy of the aforementioned hand delivered copy was emailed to a representative of Barnabus Land Company's vice-president of record, Michael R. Blackburn.

If you should have any questions please feel free to contact me by phone at (304) 235-7175 or by email at lstanley@boothenergy.com.

Sincerely,



Larry Todd Stanley
Manager – Permitting & Environmental Affairs
Miller Creek and Fola Operations
Southeastern Land, LLC

Acknowledgement

State of West Virginia
County of Mingo

I, Adam Bryant, a Notary Public in and for the county and state aforesaid, do certify that Larry Todd Stanley, whose name is signed to the writing above or hereto annexed, has this day acknowledged that same before me in my said county.

Given under my hand this 17th day of October 2017.

 _____ Notary Public

My Commission Expires August 2, 2023.



WV Department of
Environmental Protection
11/10/2017

5901050P

WW-9
(5/16)

API Number 47 - 059 - 01050
Operator's Well No. C-39

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Southeastern Land, LLC OP Code _____
Watershed (HUC 10) Laurel Fork Quadrangle Myrtle

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 (if selected provide a completed form WW-9-GPP)
- _____ 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? If so, describe: _____

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

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

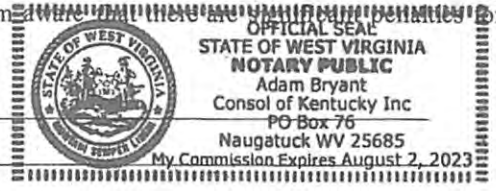
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Paul B. Horn

Company Official (Typed Name) Paul B. Horn

Company Official Title Attorney-in-Fact



Subscribed and sworn before me this 10 day of OCTOBER, 20 17

Al B... Notary Public

My commission expires AUG 2, 2023

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Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

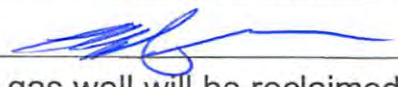
Mulch _____ Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: Plugged gas well will be reclaimed per the approved regrade and revegetation plans for the O-5003-14 Article 3 Permit. ?

(Gas well is located on ocean strip when phase approval copy of permit)

Title: DOG Inspector

Date: 10-18-17

Field Reviewed? Yes No

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

Operator Name: Southeastern Land, LLC
Watershed (HUC 10): Laurel Fork Quad: Myrtle
Farm Name: COTIGA DEVELOPMENT Co

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Anticipate no fluids to be discharged; however, if discharge does occur, previously constructed and certified Pond No. 1 on Permit No O-5003-14 & NPDES WV1020722 will be utilized.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Previously constructed and certified Pond No. 1 on Permit No O-5003-14 and per the approved GPP of NPDES Permit WV1020722.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Closest water body is Pond No. 1 (Laurel Fork) on the O-5003-14 Article 3 Permit and is located 1200' from the subject well.

5.3 miles to closest Well Head Protection Area, WV9930108.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

Twin Branch East Surface mine operating under Article 3 Permit No. O-5003-14 and NPDES Permit WV1020722 (Groundwater Protection Plan included within NPDES Permit).

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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Article 3 Groundwater Monitoring Sites for permits O-5003-14 and S-5004-02.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Will adhere to currently approved Groundwater Protection Plan for NPDES Permit No WV1020722.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

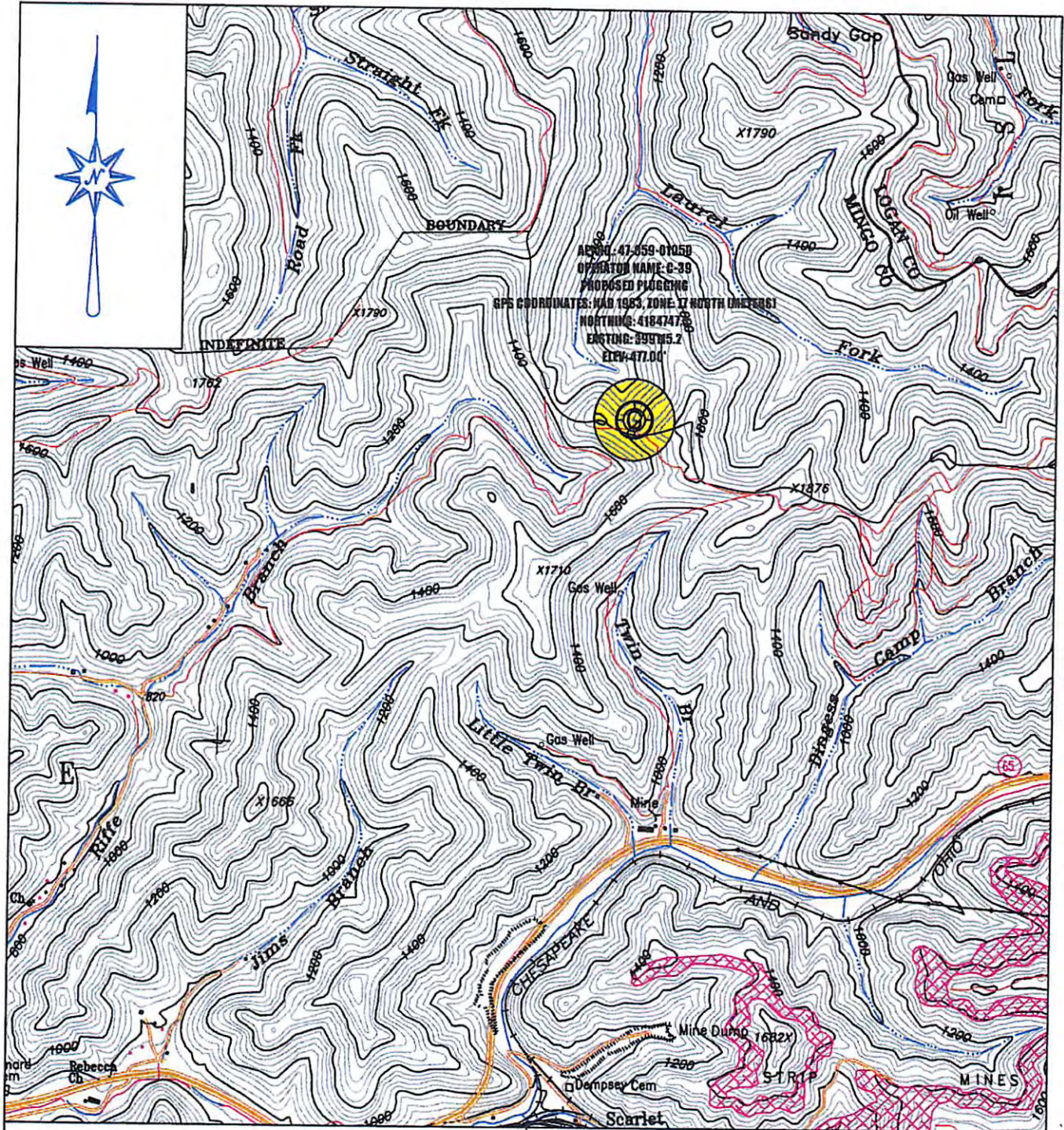
Will adhere to currently approved Groundwater Protection Plan for NPDES Permit No WV1020722.

Signature: *Paul B. How*

Date: 10/10/17

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PROPOSED GAS WELL PLUGGING
API NO.: 47-059-01050
OPERATOR NAME: C-39

GENERAL LOCATION MAP
 MYRTLE QUADRANGLE
 SCALE: 1"=2,000"
 October 18, 2017

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-059-01050 WELL NO.: C-39

FARM NAME: Cotiga Development Co.

RESPONSIBLE PARTY NAME: Southeastern Land, LLC.

COUNTY: Mingo DISTRICT: Harvey

QUADRANGLE: Myrtle

SURFACE OWNER: West Virginia Division of Natural Resources

ROYALTY OWNER: New River Energy Corporation

UTM GPS NORTHING: 4184747.3

UTM GPS EASTING: 399115.2 GPS ELEVATION: 477.00 (1654')

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 x : Post Processed Differential _____

Real-Time Differential X

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

Surface Mine Engineer
Title

10-18-17
Date

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