



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

December 12, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301027, issued to HG ENERGY, 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: 2
Farm Name: LONG, S. C.
API Well Number: 47- 10301027
Permit Type: Plugging
Date Issued: 12/12/2014

Promoting a healthy environment.

12/12/14

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.

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

COPY

Well Operator's Report of Well Work

Farm name: COASTAL LUMBER CO. Operator Well No.: MCCOY HEIRS 16

LOCATION: Elevation: 1,314' Quadrangle: PINE GROVE 7.5'

District: GREEN County: WETZEL
Latitude: 11,725 Feet south of 39 Deg 32 Min 30 Sec.
Longitude: 7,225 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 08/13/09

Well work Commenced: 08/19/09

Well work Completed: 08/28/09

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3410'

Fresh water depths (ft) N/A

Salt water depths (ft) 1820'

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	1150'	1150'	290 sks
4 1/2"	3307.95'	3307.95'	150 sks

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 3150'-3165', 3176'-3177'

Gas: Initial open flow _____ * MCF/d Oil: Initial open flow _____ * Bbl/d

Final open flow _____ * MCF/d Final open flow _____ * Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received
Office of Oil & Gas

NOV 07 2014

For: EAST RESOURCES, INC

By: _____

Date: _____

Ben Beld
9/4/09

12/12/14

Treatment : Treated perfs (3150'-3165', 3176'-3177") w/ 250 gals. 15% HCl, 315 bbls cross linked gel, and 20,000 # 30/50 sand.

Well Log :

0	420	Sand and Shale
420	448	Sand
448	510	Shale
510	546	Sand
546	850	Shale
850	876	Sand
876	886	Shale
886	954	Sand
954	962	Shale
962	970	Sand
970	1016	Shale
1016	1037	Sand
1037	1052	Shale
1052	1087	Sand
1087	1110	Shale
1110	1154	Sand
1154	1192	Shale
1192	1213	Sand
1213	1498	Shale
1498	1522	Sand
1522	1582	Shale
1582	1636	Sand
1636	1675	Shale
1675	1718	Sand
1718	1734	Shale
1734	1783	Sand
1783	1885	Shale
1885	1902	Sand
1902	1975	Shale
1975	1997	Sand
1997	2070	Shale
2070	2106	Sand
2106	2249	Shale
2249	2264	Sand
2264	2288	Shale
2288	2365	Big Lime
2365	2550	Big Injun
2550	3118	Shale
3118	3134	Gordon Stray
3134	3144	Shale
3144	3165	Gordon
3165	3174	Shale
3174	3178	Sand
3178	3410	Shale
3410		TD

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1030027P

Lease No. 24898 Acres 1.00 Farm Name SARAH C. LONG Well No. 2

N 40° S E W 3/4 Location Made Purchased From
 Civil District Grant Rig Completed Date Purchased
 County Wetzell Drig Commenced Sold To
 State W. Va. Drig Completed Date Sold
 Gas Rights Owned By Drig Contractor Date Abandoned

FORMATION Elevation 757

CASING RECORD

Kind	Top	Bottom	Steel Line Meas.	Tests
Stray Sand	2550	2583		
Gordon Sand	2590			
1st Pay	2592			
Total Depth	2609			
Cleaned out to depth of 2617' Sept. 30, 1919				
Total Depth	2617			
Conductor		15		
Coal Pgn.	520	525		
Hard Sand	1010	1070		
Sand	1350	1405		
Shale	1680	1730		
Partial Cave	1680	1680		
Big Injun Sand	1730	2005		
Stray Sand	2550	2583		
Gordon Sand	2590			
1st Pay	2592			
Total Depth		2617		

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
8 1/2"		1035		Date
6-5/8"		1768	1712	Size Csg.
5-3/16"		2556	2556	Top "
5-3/16"		1917		Bot. "
5-3/16"		626		

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set
Parmaco Hook Wall	6-5/8"		2-28-1929

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Yield (lbs)
7-15-1903	30	11"	--		
9-13-1905	30	11"	--		
3-21-1908	50	--	--		
1-08-1929	60	3-4"x8'	2592	2600	No Good

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	PLUG		
			Size	Kind	Depth

11-29-47 water test 12,600 cuft

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APPROVED

Supt.

Initial Prod. Sand ★ At Completion ★ 30 Days After ★

Oil Gordon
Gas

Smithfield, W. Va.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

★ Oil in Barrels
★ Gas in M. Cu. Ft.

12/12/14

10301027 P

WW-4A
Revised 6-07

1) Date: September 23, 2014
2) Operator's Well Number
S. C. Long 2
3) API Well No.: 47 - 103 - 01027

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

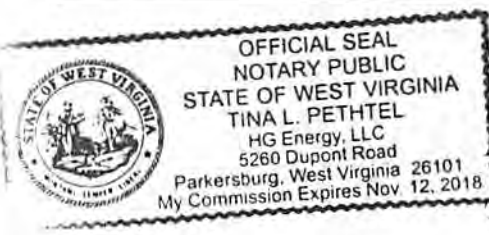
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Keith & Rebecca Rush</u> ✓	Name _____
Address <u>HC 62, Box 3A</u> ✓	Address _____
<u>Pine Grove, WV 26419</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name <u>CONSOL Energy</u> ✓
_____	Address <u>1000 CONSOL Energy Drive</u> ✓
Telephone _____	<u>Cannonsburg, PA 15317</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: HG Energy, LLC
 By: Diane White *Diane White*
 Agent: _____
 Address: 5260 Dupont Road
Parkersburg, WV 26101
 Telephone: 304-420-1119

Received
Office of Oil & Gas
NOV 07 2014

Subscribed and sworn before me this 23rd day of September 2014
Tina L. Pethel Notary Public
My Commission Expires Nov 12 2018

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.

CK 2779 \$100.00

12/12/14

10361027P

7012 3460 0002 6850 6378

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Total Postage & Fees	\$ 7.46

PARKERSBURG, WV SEP 2 2014 SPSN
Postmark Here
SCL 2

Sent To: Keith & Rebecca Rush
 Street, Apt. No., or PO Box No.: HC 62, Box 3A
 City, State, ZIP+4: Pine Grove WV 26419

PS Form 3800, August 2005 See Reverse for Instructions

7012 3460 0002 6850 6378

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Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40

PARKERSBURG, WV SEP 2 2014 SPSN
Postmark Here
SCLong 2

Sent To: CONSOL Energy
 Street, Apt. No., or PO Box No.: 1000 CONSOL Energy Dr
 City, State, ZIP+4: Cannonsburg PA 15317

PS Form 3800, August 2005 See Reverse for Instructions

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 Office of Oil & Gas
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10301027P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 103 - 2503
Operator's Well No. McCoy Heirs 16

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 HG Energy, LLC OP Code 494497948

Watershed Piney Fork Quadrangle Pine Grove 7.5'

Elevation 1325' County Wetzel District Green

Description of anticipated Pit Waste: Fluids encountered while plugging subject well

Will a synthetic liner be used in the pit? Yes DMH

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

DMH
10-16-14

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 Diane White

Received
Office of Oil & Gas

Company Official (Typed Name) Diane White

NOV 07 2014

Company Official Title Agent

Subscribed and sworn before me this 2nd day of October, 2014

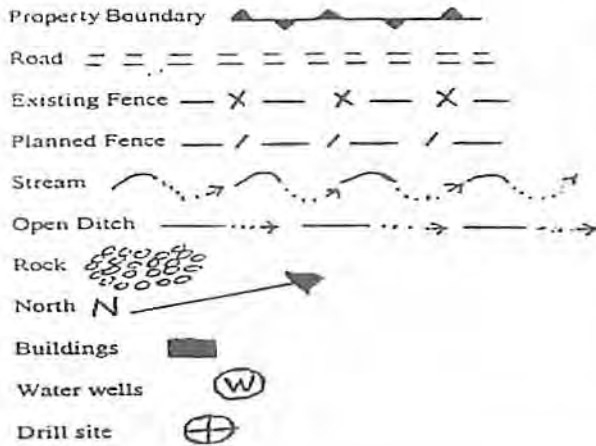
Tina L. Pethel

Notary Public

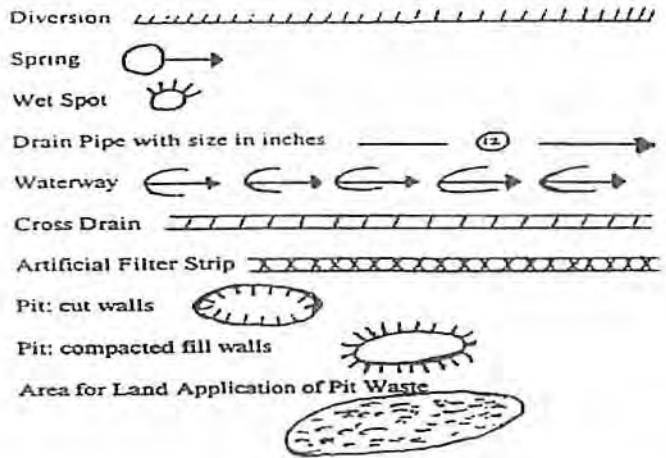
My commission expires Nov. 12, 2018



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LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.7 acres Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Straw 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

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: _____

Title: Oil + Gas Inspector

Date: 10-16-14

Field Reviewed? Yes No

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West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 103 - 027 P WELL NO: No.2

FARM NAME: S.C. Long

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Wetzel DISTRICT: Grant 4

QUADRANGLE: Pine Grove 7.5' 548

SURFACE OWNER: Keith & Rebecca Rush

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,380,728

UTM GPS EASTING: 528,063 GPS ELEVATION: 230 m. (754')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & 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	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

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.

Diane White Diane White
Signature

September 4, 2014
Date

Designated Agent
Title

Received
Office of Oil & Gas
NOV 07 2014



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

10301027A

September 23, 2014

Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: S. C. Long No. 2 (47-103-01027)
Grant District, Wetzel County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

Diane White

Diane C. White

Enclosures

Received
Office of Oil & Gas
NOV 07 2014

cc:

Keith & Rebecca Rush – Certified
CONSOL Energy - Certified
Derek Haught - Inspector

12/12/14