



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

PERMIT MODIFICATION APPROVAL

April 13, 2015

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit Modification Approval for API Number 10301027, Well #: 2
CORRECTED WW-B, WELL RECORDS AND WW-9

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

 g n m

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

103 01027A
MEO

WW-4B
Rev. 2/01

1) Date September 23, 20 14
2) Operator's
Well No. S. C. Long 2
3) API Well No. 47-103 - 01227

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 X / Gas X / Liquid injection / Waste disposal /
(If "Gas, Production X or Underground storage) Deep / Shallow X

5) Location: Elevation 755' Watershed North Fork Creek
District Grant County Wetzel Quadrangle Pine Grove 7.5'

6) Well Operator HG Energy, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Sam Ward Name To Be Determined Upon Approval of Permit
Address P. O. Box 2327 Address
Buckhannon, WV 26201

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

Casing: TD - 2617'	Perforate liners 2550' - 2450' (1 shot/10')
8 1/4" 1035'	Plug No. 1 - 2550' - 2450'
6 5/8" 1712'	Free point, cut & pull 5 3/8", est 1900'
5 3/16" 1917'	Plug No. 2 - 2000' - 1850'
5 3/16" liner 1956' - 2582'	Plug No. 3 - 1760' - 1660'
	Free point, cut & pull 6 5/8", est 1000'
	Plug No. 4 - 1050' - 950'
6% gel between cement plugs	Free point, cut & pull 8 1/4", est 600'
If casing not removed over	Plug No. 5 - 570' - 470'
Pittsburg coal - rip/perforate	Plug No. 6 - 100' - 0'
casing.	

g/mm

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

OK g/mm

Work order approved by inspector _____ Date _____

10301027P
MOS

Lease No. 24898 Acres 1.60 Farm Name SARAH C. LONG Well No. 2

N 40° E	W 3'	Location Made	Purchased From
Civil District Grant		Rig Completed	Date Purchased
County Wetzel		Drg Commenced	Sold To
State W. Va.		Drg Completed	Date Sold
Gas Rights Owned By		Drg Contractor	Date Abandoned

FORMATION Elevation 757

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		
Cool Pgs.	520	526		
Bankard Sand	1010	1070		
Sand	1360	1405		
Blue Limestone	1680	1730		
Parrot Cave	1680	1680		
Big Injun Sand	1730	2005		
Stray Sand	2550	2583		
Gordon Sand	2590			
1st Pay	2592			
Total Depth		2617		

11-25-47 *Mud test* 18,600 cuft

CASING RECORD

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"		2-25-1929

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
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

Received
Office of Oil & Gas
NOV 07 2014

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.

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 North Fork Creek Quadrangle Pine Grove 7.5'

Elevation 755' County Wetzel District Grant

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

Will a synthetic liner be used in the pit? Yes 20 mi.

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

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

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 23rd day of September, 20 14

Tina L. Pethel

Notary Public

My commission expires Nov 12, 2018



10301027P
MOO

Form WW-9

Operator's Well No. S. C. Long 2

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 0.5 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 5 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.

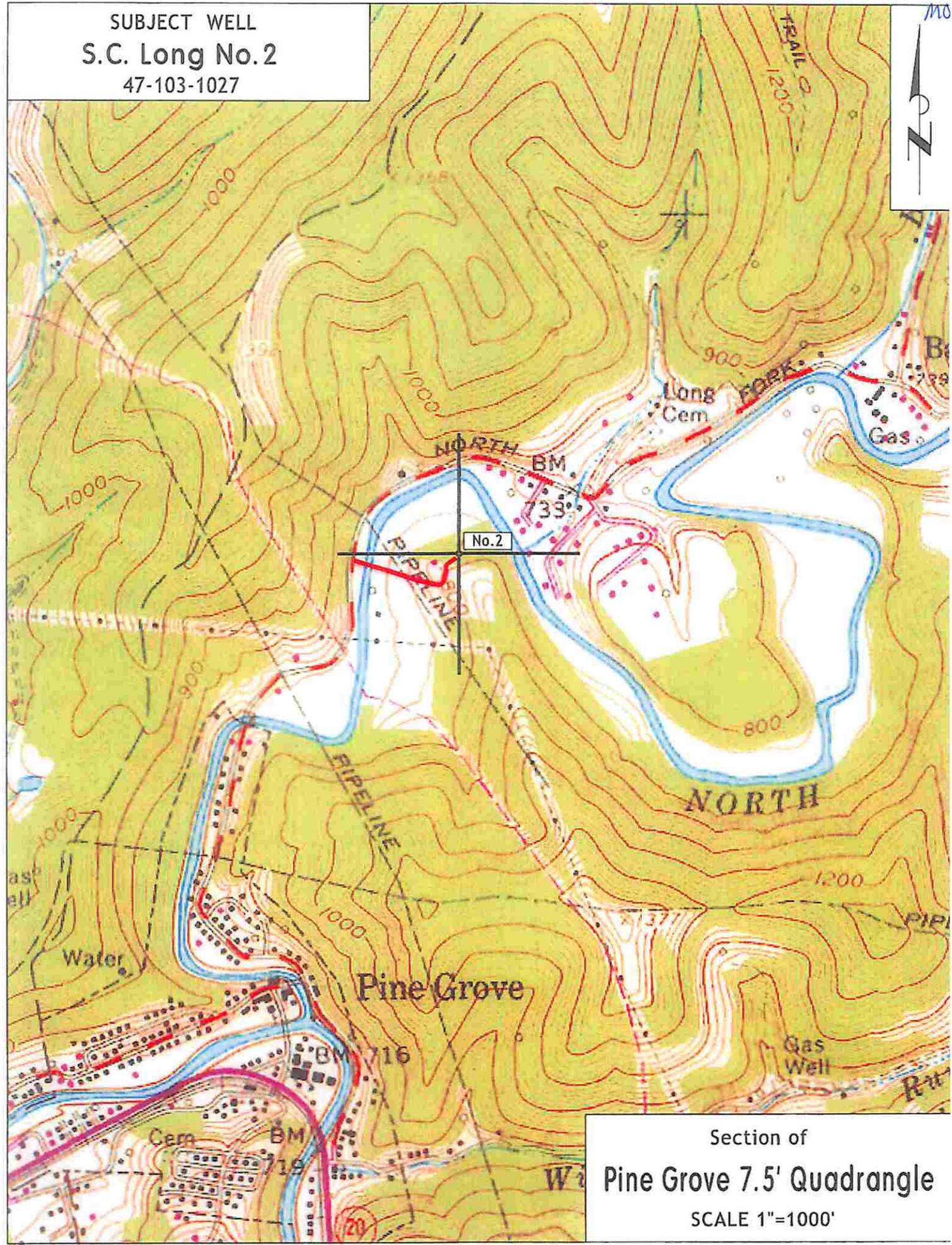
Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

SUBJECT WELL
S.C. Long No.2
47-103-1027



Section of
Pine Grove 7.5' Quadrangle
SCALE 1"=1000'