



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 10, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4101104, issued to ROSS AND WHARTON GAS COMPANY, 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.

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: WVG01062
Farm Name: HAWKINS-CORATHERS
API Well Number: 47-4101104
Permit Type: Plugging
Date Issued: 12/10/2015

Promoting a healthy environment.

12/11/2015

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.

1) Date 11/2, 2015
2) Operator's
Well No. Hocus Hawkins
3) API Well No. 47-41 - 1104

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

5) Location: Elevation 1287 Watershed
District Skin Creek County Lewis Quadrangle Roanoke 7.5

6) Well Operator Ross & Wharton 7) Designated Agent Mike Ross
Address Route 5 Box 29 Address PO Box 219
Buckhannon, WV 26257 Coalton, WV 26257

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Name Unknown
Address 28 Conifer Drive Address
Bridgeport, WV 26330

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

4460-TD

Run 6% gel between each plug

4460-4260 set cement plug

Pull 4 1/2 inch pipe at 3000

3100-2900 set cement plug

1300-1200 set cement plug

* See additional instructions *

900-800 set cement plug

~~100-0 set cement plug~~

300' - 0 set Class A Cement Plug.

- * Must try to pull 8 1/4" casing.
 - * Freepoint, cut & pull 8 1/4" casing.
 - * Set 100' Class A Cement Plug across casing cut.
 - * If 8 1/4" casing is cut below 850',
Set 100' Class A Cement Plug from 850' to 750' (Salt Water).
 - * If 8 1/4" casing is cut above 800', Perforate 8 1/4" from
900' to 800' and set 100' Class A Plug from 900' to 800' (Salt Water).
 - * Must try to pull 10" casing per WV State Code
 - * Set Class A Cement plug from 300' to surface.
- Jeff McLaughlin, OO&G

Set monument with API number

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

Work order approved by inspector Barry Stollings

WV Department of Environmental Protection
Date 10-28-15



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Crawford NW

WELL RECORD

Permit No. Lewis 1104

Oil or Gas Well Gas

Company <u>Union Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Box 231 Washington, Penna.</u>	Size			
Farm <u>H.F. Hawkins</u> Acres <u>202.37</u>	16			Kind of Packer
Location (waters) <u>Skin Creek</u>	13			
Well No. <u>62-E (70-1)</u> Elev. <u>1237</u>	10	<u>246</u>	<u>246</u>	Size of
District <u>Skin Creek</u> County <u>Lewis</u>	8 1/4	<u>1176</u>	<u>1176</u>	
The surface of tract is owned in fee by <u>H.F. Hawkins</u> Address <u>Horner, W. Va.</u>	6 3/4			Depth set
Mineral rights are owned by <u>H.F. Hawkins and Carothers est.</u> Address _____	10000 <u>4 1/2</u>	<u>4480</u>	<u>4480</u>	
Drilling commenced <u>1-29-63</u>	3			Perf. top <u>4446</u>
Drilling completed <u>5-8-63</u>	2			Perf. bottom <u>4443</u>
Date Shot _____ From _____ To _____	Liners Used			Perf. top <u>4451</u>
With _____				Perf. bottom <u>4457</u>
Open Flow <u>68</u> /10ths Water in <u>1 1/2</u> Inch				
_____ /10ths Merc. in _____ Inch				
Volume <u>145,466</u> Cu. Ft.	CASING CEMENTED <u>4 1/2</u> SIZE <u>400</u> No. Ft. <u>5-9-63</u> Date			
Rock Pressure _____ lbs. _____ hrs.				
Oil _____ bbls. 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
WELL ACIDIZED _____	_____ FEET _____ INCHES FEET _____ INCHES			
WELL FRACTURED <u>990 bbl. jelled water</u>	_____ FEET _____ INCHES FEET _____ INCHES			
	<u>65,000 sand 5/15/63</u>			

RESULT AFTER TREATMENT 1,500,000 cu ft

ROCK PRESSURE AFTER TREATMENT 1565#

Fresh Water 50' Feet Salt Water 860' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red rock			0	25			
Slate-shell			25	100	Water at 50'		
Red rock			100	205			
Slate shell			205	325			
Gritty lime			325	360			
Slate & shell			360	410			
Red rock			410	427			
Slate & shell			427	520			
Lime			520	545			
Slate			545	555			
Sand			555	685			
Slate & shell			685	752			
Sand			752	302			
Slat# & shell			302	335			
Sand			335	925	Water at 350'		
Lime			925	970			
Sand			970	1035			
Slate & shell			1035	1112			
Lime			1112	1133			
Sand			1133	1170			
Slate Lime			1170	1235			
Slate			1235	1240			
Lime			1240	1265			
Slate & shell			1265	1296			
Lime			1296	1313			
Sand			1313	1430			
Slate			1430	1460			
Red rock			1460	1650			
Lime			1650	1673			

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NOV 05 2015



Department of Environmental Protection

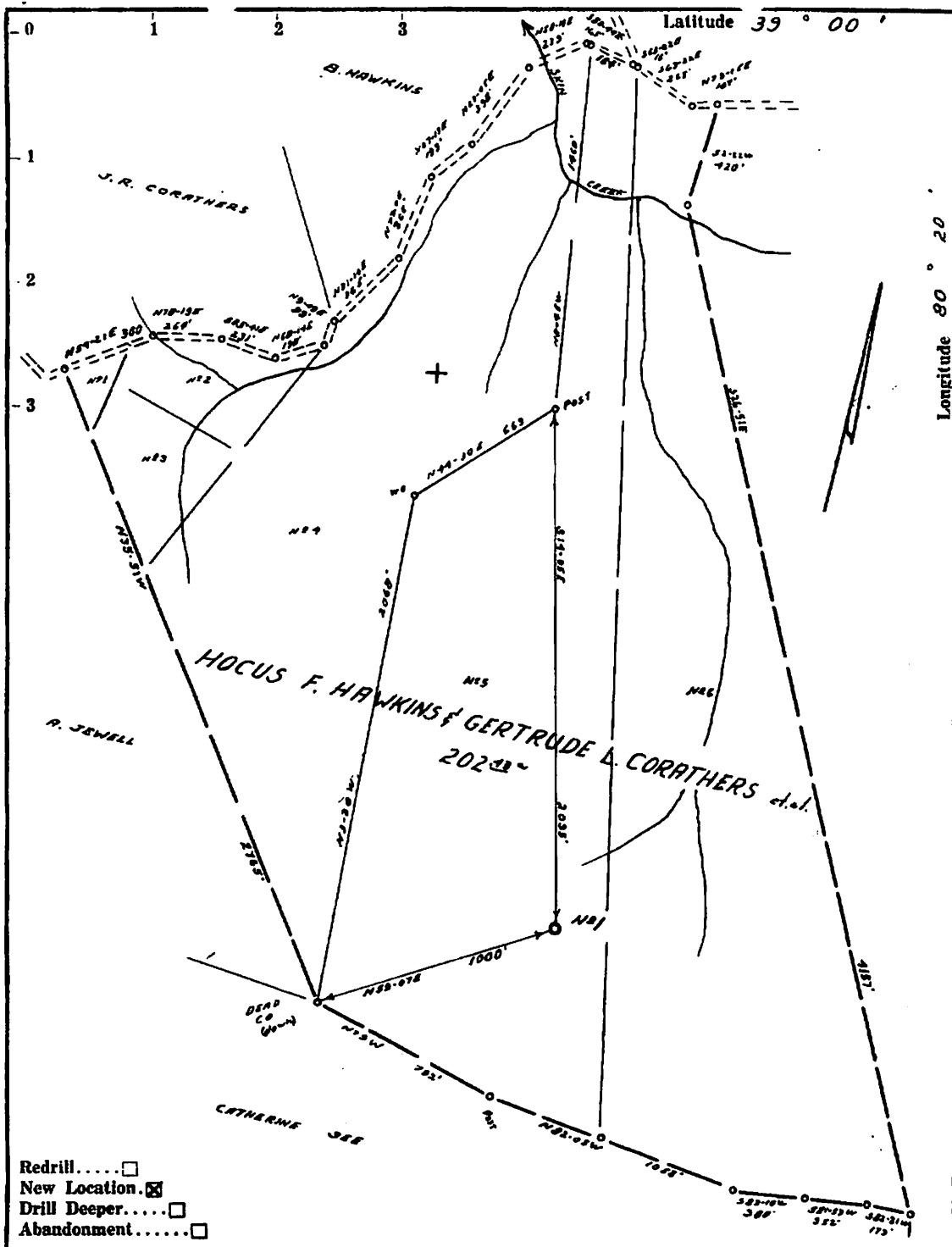
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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1678	1690			
Lime			1690	1720			
Sand			1720	1750			
Big Lime			1750	1847			
Sand			1847	1954			
Slate & shell			1954	2172			
Sand			2172	2226			
Slate & shell			2226	2258			
Sand			2258	2405			
Slate			2405	2501			
Sand			2501	2550			
Slate & shell			2550	3062			
Sand			3062	3100			
Slate & shell			3100	4242			
Sand			4242	4293			
Slate & shell			4293	4446			
Benson Sand			4446	4459	Gas 4448	68/10 thru 1 1/2"	145,466
Gritty Lime			4459	4480			
T.D.			4480				

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APPROVED: *[Signature]* Date: *11/27/15*
By: *[Signature]* (Title)
WV Department of Environmental Protection
Owner
12/11/2015



Redrill.....
 New Location.
 Drill Deeper.....
 Abandonment.....

Company UNION DRILLING INC.
 Address WASHINGTON, PA.
 Farm H.F. HAWKINS & G.L. CORATHERS et al.
 Tract _____ Acres 202.13 Lease No. _____
 Well (Farm) No. 1 Serial No. 1
 Elevation (Spirit Level) 1287' M.R.
 Quadrangle CRAWFORD NW 2 23
 County LEWIS District SKIN CREEK
 Engineer Samuel J. Jeffries
 Engineer's Registration No. 1034
 File No. 205/114 Drawing No. _____
 Date 10-5-62 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

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 WELL LOCATION
 FILE NO. LEW-1104

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 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

4101104P

WW-4A
Revised 6-07

1) Date: 11/2/15
2) Operator's Well Number
Hocus Hawkins
3) API Well No.: 47 - 041 - 01104

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) <input checked="" type="checkbox"/> Coal Operator
(a) Name <u>Us Dept. of Interior, Bureau of Land Management</u>	Name <u>N/A</u>
Address <u>626 E. Wisconsin Ave., Suite 200</u>	Address _____
<u>Milwaukee, WI 53202-4617</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Drive</u>	Name <u>N/A</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>304-552-4194</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 Ross & Wharton (Mike Ross Inc.)
 By Mike Ross
 Its Chairman of the Board
 Address PO Box 219
Coalton, WV 26257
 Telephone 304-472-4289

Subscribed and sworn before me this 2nd day of November, 2015 **RECEIVED**
Brenda Bush Office of Oil and Gas
 Notary Public
 My Commission Expires September 27, 2020 **NOV 05 2015**

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, in order to perform its 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.

12/11/2015

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross & Wharton Gas Company (Mike Ross Inc.) OP Code 305680

Watershed (HUC 10) _____ Quadrangle Roanoke 7.5

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.? NO PIT.

Proposed Disposal Method For Treated Pit Wastes: ANY WELL EFFLUENT MUST BE STORED IN TANKS.

- Land Application
- 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: 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. N/A

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) N/A

-Landfill or offsite name/permit number? N/A

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 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 Turke Ross

Company Official (Typed Name) _____

Company Official Title _____

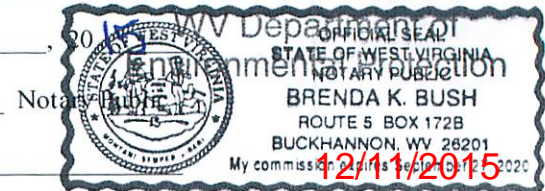
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Subscribed and sworn before me this 2nd day of November

Brenda Bush

My commission expires September 27, 2020



Ross & Wharton Gas Company (Mike Ross Inc.)

Proposed Revegetation Treatment: Acres Disturbed 1 Acre Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Fescue

Contractor's Mix

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: Barry Stiles

Comments: _____

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Title: Inspector

Date: 10-28-15

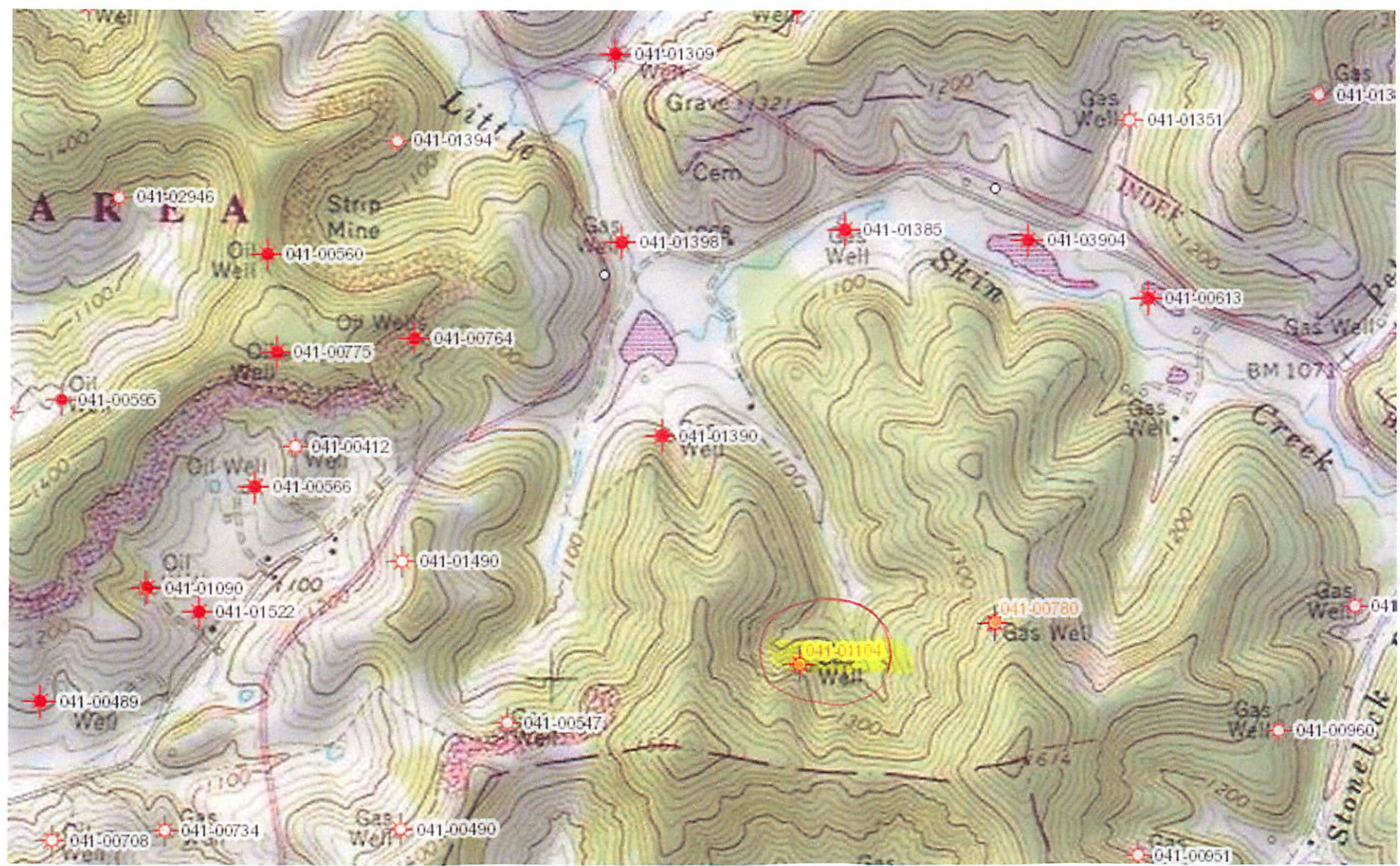
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Field Reviewed? Yes No

WV Department of
Environmental Protection

12/11/2015

4101104P



WW-7
8-30-06



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

API: 47-041-01104 WELL NO.: 1

FARM NAME: Hocus Hawkins

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Lewis DISTRICT: Skin Creek

QUADRANGLE: Roanoke 7.5

SURFACE OWNER: US Department of Interior, Bureau of Land Management

ROYALTY OWNER: Us Department of Interior, Bureau of Land Management

UTM GPS NORTHING: 4312361

UTM GPS EASTING: 551165 GPS ELEVATION: 1287

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.

Mike Ross
Signature

President
Title

11/2/15
Date