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

October 09, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3904529, issued to PANTHER, 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 penalities 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: SHONK 13
Farm Name: SHONK LAND CO.
API Well Number: 47-3904529
Permit Type: Plugging
Date Issued: 10/09/2013

Promoting a healthy environment.

3904529P

WW-4B
Rev. 2/01

1) Date Oct. 3 , 2013
2) Operator's
Well No. Shonk 13
3) API Well No. 47-039-04529

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 ____

5) Location: Elevation 1,229' Watershed Coal Fork Creek
District Cabin Creek 2 County Kanawha Quadrangle Sylvester 630

6) Well Operator Panther, LLC
Address 500 Lee Street, East Suite 900
Charleston, WV 25301

7) Designated Agent Gary Acord
Address 500 Lee Street, East Suite 900
Charleston, WV 25301

8) Oil and Gas Inspector to be notified
Name Terry Urban
Address P.O. Box 1207
Glendenin, WV 25045

9) Plugging Contractor
Name CJ's Well Service
Address P.O. Box 133
Rowe, VA 24646

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

SEE Changes ON prognosis

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OCT 08 2013
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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 [signature] Date 10-8-13

$100.
ck# 12745

3904529P

PLUGGING PROGNOSIS

Well #Shonk 13
API# 47-039- 04529
Cabin Creek District, Kanawha County

Current Status

Elevation: 1,229'
Total Depth: 2,950'
Active: Yes
Plugged: No

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Procedure for Plugging

1) Notify state inspector, Terry Urban, @ 304-549-5915, before starting.
2) Cleanout hole to 2950' (Original T.D.)
3) Pump Class "A" Cement from 2950' – 2587' (T.D. to 100' above Lower Weir Sand producing formation)
4) Pump Class "A" Cement or "Gel" from 2587' – ~~1220'~~ 1100 ft
5) Pump Class "A" Cement from 1229' – 1100' (above Salt Sand)
6) Locate freepoint, cut casing, and pull from hole
7) Pump Class "A" Cement or "Gel" from 1100' – 200' below coal seam (Approx 909')
8) Plug well from 200' below coal seam (Approx 909') – surface using 101C Petition Standards
9) Perforate casing (if Applicable) to 101C standards to 200' below the Eagle seam
10) Set 300' expanding cement plug 200' below the Eagle seam to 100' above.
11) Cement will be set to the surface.
12) Depending on site conditions, plugging procedures may be modified after approval of the inspector.
13) All changes to the plugging procedures will be noted in the plugging affidavit.
14) Erect permanent monument with API number.
15) Reclaim the site and access road.

Terry Urban 10-8-13

WELL SHONK #13 3904529P

IV-35
Rev 8-81

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JAN 20 1988
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Energy
Oil and Gas Division

Date December 11, 1987
Operator's
Well No. Shonk #13
Farm
API No. 47 - 039 - 4529

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: 1221.60' Watershed Coal Fork of Cabin Creek
District: Cabon Creek County Kanawha Quadrangle Sylvester

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COMPANY TXO Production Corp.
ADDRESS 600 Charleston National Plaza
Charleston, WV 25301
DESIGNATED AGENT Kenneth W. Tatarzyn
ADDRESS 600 Charleston National Plaza
Charleston, WV 25301
SURFACE OWNER Shonk Land Company
ADDRESS P. O. Box 969, Chas., WV 25324
MINERAL RIGHTS OWNER
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Carlos Hively ADDRESS
PERMIT ISSUED September 10, 1987
DRILLING COMMENCED 11-12-87
DRILLING COMPLETED 12-10-87
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	20'	20'	
9 5/8			
8 5/8	1219'KBM	1219'KBM	260 sx
7			
5 1/2			
4 1/2	2904'KBM	2904'KBM	160 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Weir Depth 2950' feet
Depth of completed well 2950' feet Rotary X / Cable Tools
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Weir Pay zone depth 2695-2749' feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 700 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 400 psig (surface measurement) after 72 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

(Continue on reverse side)

FORM IV-35
(REVERSE)

3904529P

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

Dmp 250 gal 15% Fe acid + Cla Sta. Perf Weir w/3-1/8" csg gun, 1 SPF fm 2695, 96, 2707, 14, 21, 25, 35, 38, 44, 45, 46, 47, 48, 49, & 2750.

Pmp 4 bbl 15% Fe acid + Cla Sta + 26 balls. Pmp 14 bbl 2% KCl to B/D Weir @ 1850 psi. Frac Weir w/33M gal 60% Q foam + 42.5M# 20/40 sd dn tbg.

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, and Coal	0'	1184'	
Salt Sand	1184'	1648'	
Shale	1648'	1761'	
Ravencliff Sand	1761'	1787'	
Avis Limestone	1787'	1814'	
Shale	1814'	1884'	
Upper Maxon Sand	1884'	1889'	
Shale	1889'	1967'	
Middle Maxon Sand	1967'	2145'	
Shale	2145'	2221'	
Little Lime	2221'	2280'	
Pencil Cave Shale	2280'	2296'	
Big Lime	2296'	2550'	
Shale	2550'	2554'	
Injun Sand	2554'	2566'	
Shale	2566'	2687'	
Lower Weir Sand	2687'	2836'	Gas show.
Shale	2836'	2950'	
TD		2950'	

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DEPARTMENT OF ENERGY

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OCT 8 2013
WV Department of
Environmental Protection

(Attach separate sheets as necessary)

TXO Production Corp.
Well Operator

By: Kenneth W. Tatarzyn

Date: October 17, 1987

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."

58

3904529P

WW-4A
Revised 6-07

1.) Date: 10/3/2013
2.) Operator's Well Number
Shonk 13
3.) API Well No.: 47-039-04529

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Shonk Land Company W
Address P.O. Box 969
Charleston, WV 25324

(b) Name
Address

(c) Name
Address

6) Inspector Terry Urban
Address P.O. Box 1207
Clendenin, WV 25045
Telephone 304-549-5915

5) (a) Coal Operator
Name Speed Mining, LLC W
Address P.O. Box 99
Dawes, WV. 25054

(b) Coal Owner(s) with Declaration
Name Shonk Land Company W
Address P.O. Box 969
Charleston, WV 25324
Name
Address

(c) Coal Lessee with Declaration
Name Panther, LLC W
Address 500 Lee Street, East Suite 900
Charleston, WV 25301

RECEIVED
Office of Oil & Gas
OCT 08 2013
WV Department of
Environmental Protection

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
GARY JOE LANE
P. O. BOX 470
ALUM CREEK, WV 25003
My commission expires February 15, 2017

Well Operator Panther, LLC
By: Gary Acord
Its: Agent
Address 500 Lee Street, East Suite 900
Charleston, WV. 25301
Telephone 304-205-8847

Subscribed and sworn before me this 3rd day of October
Gary Joe Lane
My Commission Expires February 15, 2017

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.go

3904529P

SURFACE OWNER WAIVER

Operator's Well Number Shonk 13

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-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:

RECEIVED
Office of Oil & Gas
OCT 08 2013
WV Department of Environmental Protection

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston WV 25304
(304) 920-0450

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.

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION, LLC

Name Shonk Land Company
By
Its
Signature Special Asst to Manager Date 10/3/13

3904529P

WW-4B

API No. 47-039-04529
Farm Name Shonk Land Company
Well No. Shonk 13

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 then 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 _____/ 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: 10/3/13

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OCT 08 2013
WV Department of
Environmental Protection

Shonk Land Company
By: _____
Its _____

3904529P

WW-4B

API No. 47-039-04529____
Farm Name Shonk Land Company
Well No. _Shonk 13_____

INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

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WAIVER

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Date: 10-03-13

Speed Mining LLC__
By: ENGINEER
Its _____

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3904529P

WW-4B

API No. 47-039-04529
Farm Name Shonk Land Company
Well No. Shonk 13

INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

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WAIVER

The undersigned coal operator ___ ____/ 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: 10-03-13

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Panther LLC
By: GARY E. ACORD
Its AGENT

39 04529 P

WW-9
Rev. 5/13

API Number 47 -039 -04529
Operator's Well No. Shonk 13

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 PANTHER, LLC OP Code

Watershed (HUC 10) Coal Fork Creek Quadrangle Sylvester 630

Elevation 1,229' County Kanawha 39 District Cabin Creek 02

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

Will a pit be used for drill cuttings? Yes X No N

If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes X No Is so, wat ml.? ~~10~~ 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:
X Land Application
__Underground Injection (UIC Permit Number)
__Reuse (at API Number)
__Off Site Dispposal (Supply form WW-9 for disposal location)
__Other (Explain)

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Will closed loop system be used? Yes, if excess will be trucked to U-80-83 slurry cells
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Water
-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. Leave in pit
- If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement and cuttings
- Landfill or offsite name/ permit number? U-80-83

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 Gary E. Acord

Company Official (Typed Name) Gary Acord

Company Official Title Agent

Subscribed and sworn before me this 3rd day of October, 20 13

Gary Joe Lane Notory Public

My commission expires February 15, 2017

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
GARY JOE LANE
P. O. BOX 470
ALUM CREEK, WV 25003
My commission expires February 15, 2017

3904529P

Form WW-9 Operator's Well No. Shonk 13

Proposed Revegetation Treatment: Acres Disturbed _____ 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 2 Tons or 1000-1500 lbs Hydroseed Mulch Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	40 lbs./Ac.		
Clover	5 lbs./Ac.		
Ryegrass	5 lbs./Ac.		

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:

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OCT 08 2013
WV Department of
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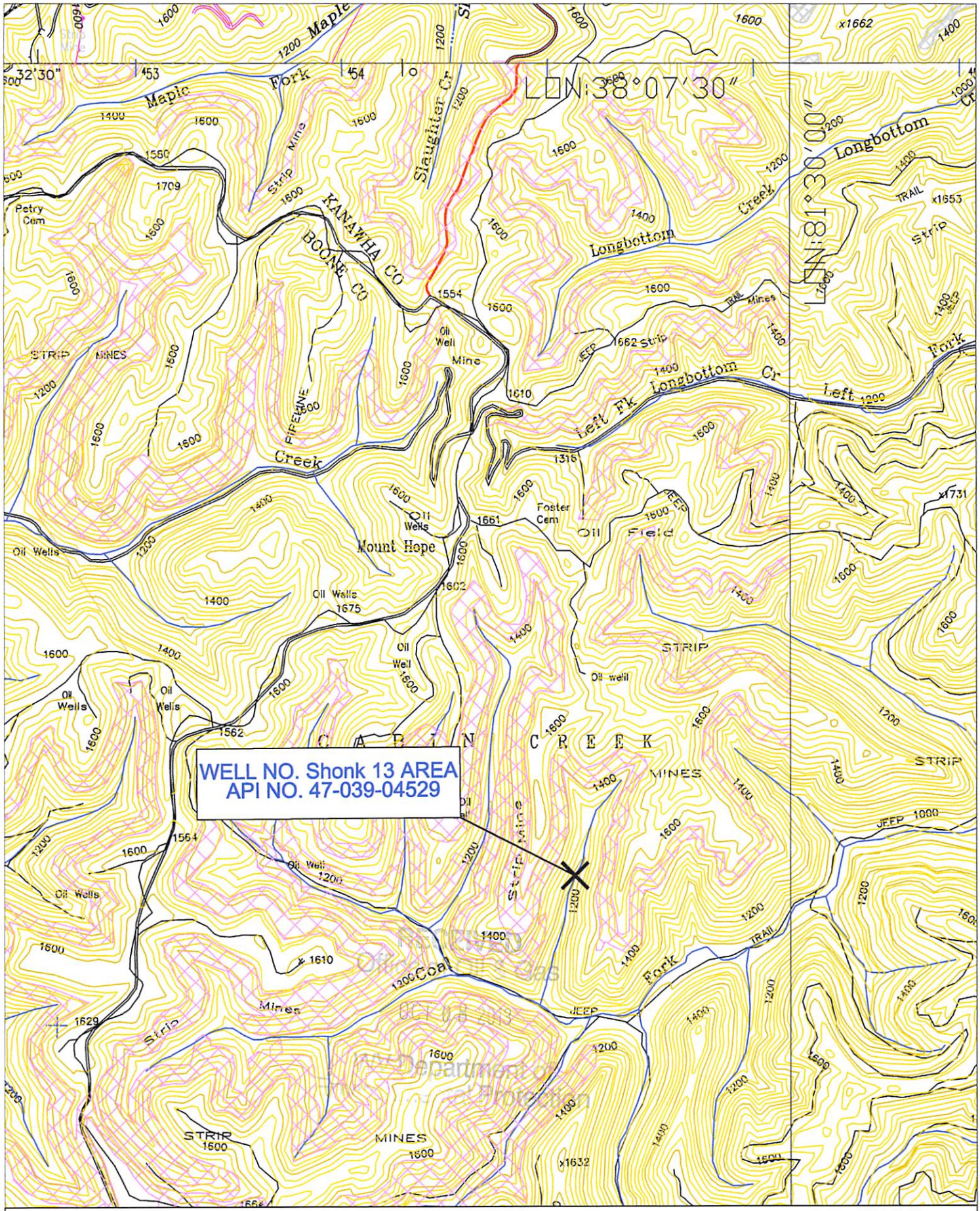
Title: Inspector Oil & Gas Date: 10-8-13

Field Reviewed? (✓) Yes ( ) No

3904529P



PANTHER, LLC.
AMERICAN EAGLE MINE
Well No. Shonk 13
Scale: 1"=2000'

SLYVESTER QUADRANGLE
WEST VIRGINIA – KANAWHA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 PEYTONA 15 MINUTE QUADRANGLE

3904529 P

WW-7
8-30-06

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

API: 47-039-04529 WELL NO.: Shonk 13
FARM NAME: Shonk Land Company
RESPONSIBLE PARTY NAME: Gary E. Acord
COUNTY: Kanawha DISTRICT: Cabin Creek
QUADRANGLE: Sylvester
SURFACE OWNER: Shonk Land Company
ROYALTY OWNER: Shonk Land Company
UTM GPS NORTHING: 4215923.449 meters
UTM GPS EASTING: 455123.085 meters GPS ELEVATION: 1,229 feet

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 _____
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.

Gary E. Acord — ENGINEER(PE)/AGENT — 10-03-13
Signature — Title — Date