



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, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9700866, issued to EXCO RESOURCES (PA), 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: 1-TD
Farm Name: POST, JOHN
API Well Number: 47-9700866
Permit Type: Plugging
Date Issued: 10/09/2015

Promoting a healthy environment.

10/09/2015

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date June 15, 2015
2) Operator's
Well No. POST 1-TD
3) API Well No. 47-087-00866

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1500' Watershed Buckhannon
District Buckhannon County Upshur Quadrangle Philippi

6) Well Operator EXCO Resources (PA), LLC 7) Designated Agent Diana Stamper/C.T. Corp Systems
Address PO Box 8 Address 5400 D Big Tyler Road
Ravenswood, WV 26164 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Bryan Harris
Address PO Box 157
Volga, WV 26238
9) Plugging Contractor Name _____
Address _____

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

Pull all tubing & rods. *USE AS MANY SACKS OF CEMENT AS NECESSARY TO ACHIEVE CEMENT PLUG LENGTH. JEM*
RIT to TD 4506' Gel hole
Cement 4506' - 4306' ~~40~~ sks, pull tubing to 2175' : *WOG 4 HOURS, CHECK TOL & ADD CEMENT IF NECESSARY.*
Cement 2175' - 2075' ~~10~~ sks, pull tubing to 1640' ← *Perf + squeeze if 4" NOT cemented*
Set plug 1640' - 1540' ~~10~~ sks. Cut & pull 4 1/2' at 500'
RIT cement 550' - 400' ~~75~~ sks ← *perft + squeeze 4"*
Cement 100' to surface ~~50~~ sks *Attempt to pull 10" casing*
Set monument with proper API #. Reclaim.

Receiver
Office of Oil & Gas
AUG 20 2015

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

Work order approved by inspector Bryan O'Hara Date 8-11-15



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Phillippi

Permit No. Ups 866

WELL RECORD

Oil or Gas Well Gas

Company JUMBO OIL & GAS, INC.
Address 2405 Station St., Indianapolis, Ind.
Farm John H. & June R. Post Acres 58
Location (waters) Buckhamnon
Well No. 1 Tract #D Elev. 1500
District Warren County Upshur
The surface of tract is owned in fee by John H. & June R. Post Address Buckhamnon, W. Va.
Mineral rights are owned by Same as above

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	96'	96'	Size of
8 1/4			
6 3/8			Depth set
5 3/16			
3 4"	4385'	4385'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced 12-1-64
Drilling completed 12-25-64
Date Shot 1-9-65 From 4342' To 4359'
With 9 shots
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 6 Million open flow mercury Cu. Ft.
Rock Pressure 1530 lbs. 24 Hrs. hrs.
Oil show of oil bbls., 1st 24 hrs.
WELL ACIDIZED 300 Gal.
WELL FRACTURED Yes 780 bbls. water 50,000 pounds of sand

CASING CEMENTED 4 SIZE 4385 No. FD 12-25-64 Date
4385-3895, 2400'-1840', 0-790'
COAL WAS ENCOUNTERED AT 70 FEET _____ INCHES
118 FEET _____ INCHES 1104 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT 6 million open flow rock pressure 1530
ROCK PRESSURE AFTER TREATMENT 1530 pds.
Fresh Water None Feet _____ Salt Water None Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
CLAY & SHALE			0	70			
COAL			70	73			
SAND			73	118			
COAL			118	121			
Shale & SAND			121	320			
SAND			320	1104			
COAL DIRTY			1104	1108			
SAND			1108	2422			
SAND			2422	2440			
SANDY SHALE			2440	2700			
SHALE			2700	2770			
SAND			2770	2810			
SHALEY SAND			2810	3090			
SAND BALL TOWN			3090	3104			
SHALE			3104	3700			
SAND & SHALE (RILEY SEC.)			3700	3810			
SHALE			3810	3858			
SAND			3858	3870			
SHALE & SAND BROKEN			3870	4345			
SAND BENSON			4345	4371			
SAND			4371	4385			



10/09/2015
Received
Office of Oil & Gas
AUG 20 2015

256082
1000
1000

9700866P

1) Date: June 15, 2015
2) Operator's Well Number POST 1-TD
3) API Well No.: 47 - 097 - 00866

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>C J Martin II</u>	Name _____
Address <u>75 Turkey Run Rd</u>	Address _____
<u>Buckhannon, WV 26201</u>	_____
(b) Name <u>Martin C J II Family Gift Trust c/o Sherree Martin</u>	(b) Coal Owner(s) with Declaration
Address <u>158 Turkey Run Rd</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 157</u>	Name _____
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-553-6087</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

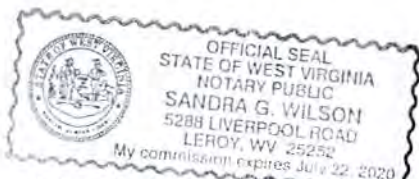
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 EXCO RESOURCES (PA), LLC
 By: Mike Scarbrough *Mike Scarbrough*
 Its: Surface Landman
 Address PO Box 8
Ravenswood, WV 26164
 Telephone 304-273-5371

Received
Office of Oil & Gas
AUG 20 2015



Subscribed and sworn before me this 15th day of June, 2015
7/22/2020 Sandra G. Wilson Notary Public
My Commission Expires 7/22/2020

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.

10/09/2015

SURFACE OWNER WAIVER

Operator's Well
Number

POST 1-TD

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

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.

Received
Office of Oil & Gas

VOLUNTARY STATEMENT OF NO OBJECTION

AUG 20 2015

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,


Signature

Date 7-8-15

Name 
By _____
Its _____

JUL 13 2015

Signature

Date
10/09/2015
Date

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EXCO Resources (PA), LLC OP Code 307860

Watershed (HUC 10) Buckhannon Quadrangle Phillipi

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: surface tank will be used

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

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 _____)

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.

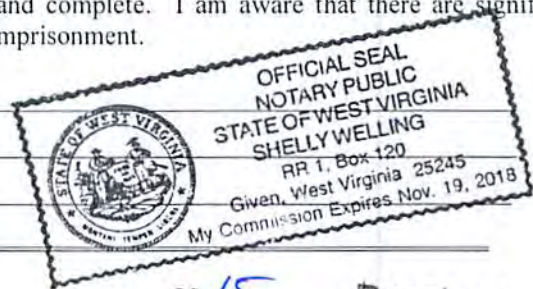
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Mike Scarbrough

Company Official (Typed Name) Mike Scarbrough

Company Official Title Surface Landman



Subscribed and sworn before me this 31 day of July, 20 15

Shelly Welling

Notary Public

My commission expires 11/19/18

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Office of Oil & Gas

AUG 20 2015
10/09/2015

EXCO Resources (PA), LLC

Proposed Revegetation Treatment: Acres Disturbed >1 Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre	Seed Type	lbs/acre
KY 31 Fescue	40	same as Area I	
Alsike Clover	5		
Annual Rye	16		

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: Bryan O'Hara

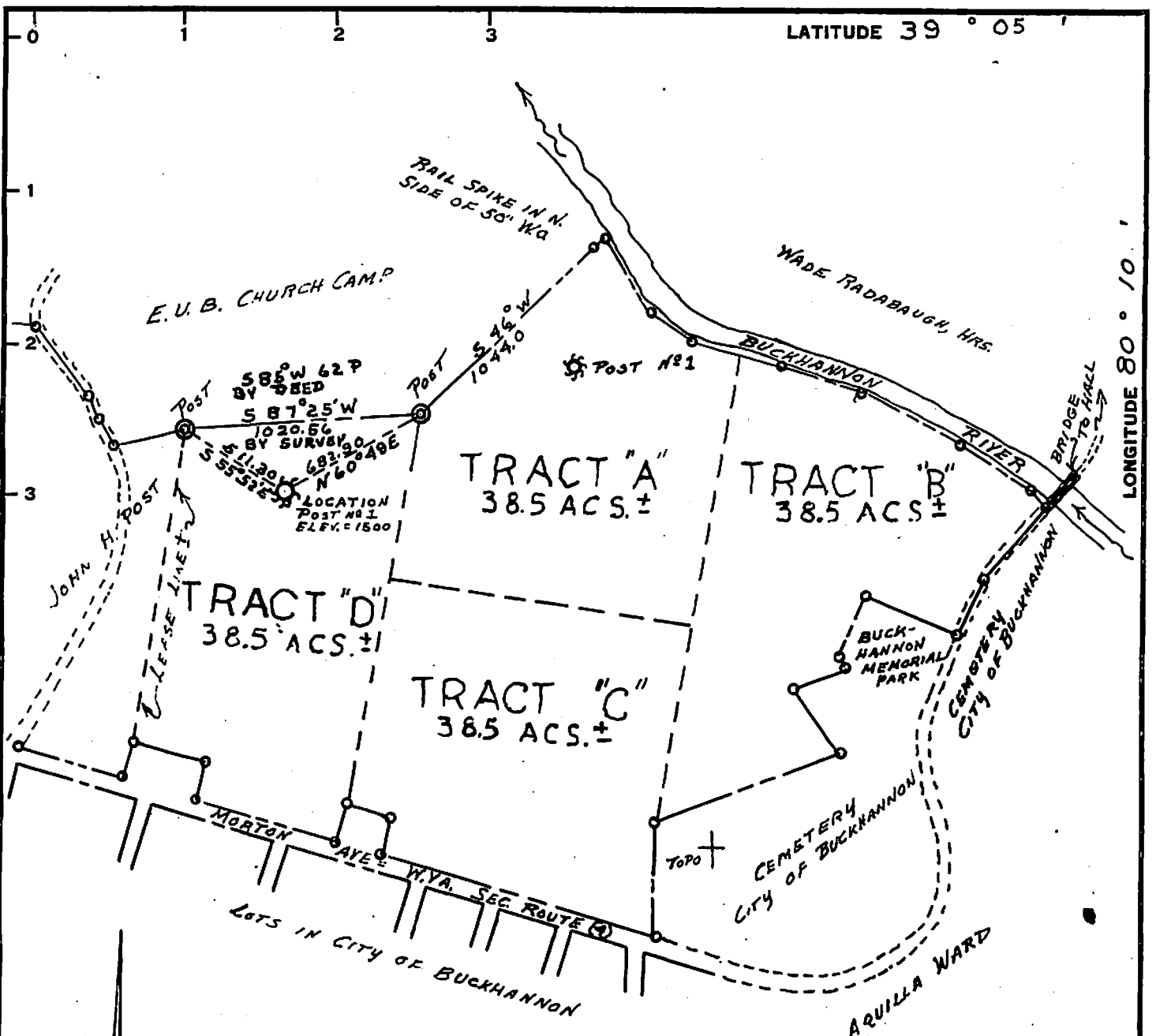
Comments: _____

Title: Oil & Gas Inspector

Date: 8-11-15

Field Reviewed? () Yes (X) No

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Office of Oil & Gas
AUG 20 2015



I, THE UNDERSIGNED HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA.

By Paul S. Dean Received
Office of Oil & Gas
AUG 20 2015

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

B.M. SEE INTERSECTION OF SEC 3 & 4
MIN. ERROR OF CLOSURE 1/20000

Company	JUMBO OIL & GAS INC.
Address	2405 STATION STREET INDIANAPOLIS INDIANA
Farm	JOHN H. POST
Tract	D Acres 38.5 Lease No. _____
Well (Farm) No.	CNE Serial No. _____
Elevation (Spirit Level)	1500
Quadrangle	PHILIPPI PH 7-52
County	UPSHUR District BUCKHANNON
Engineer	<u>Paul S. Dean</u>
Engineer's Registration No.	1856
File No.	136-5 PG 50 Drawing No. _____
Date	OCTOBER 15, 1964 Scale 1" = 40 FEET

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

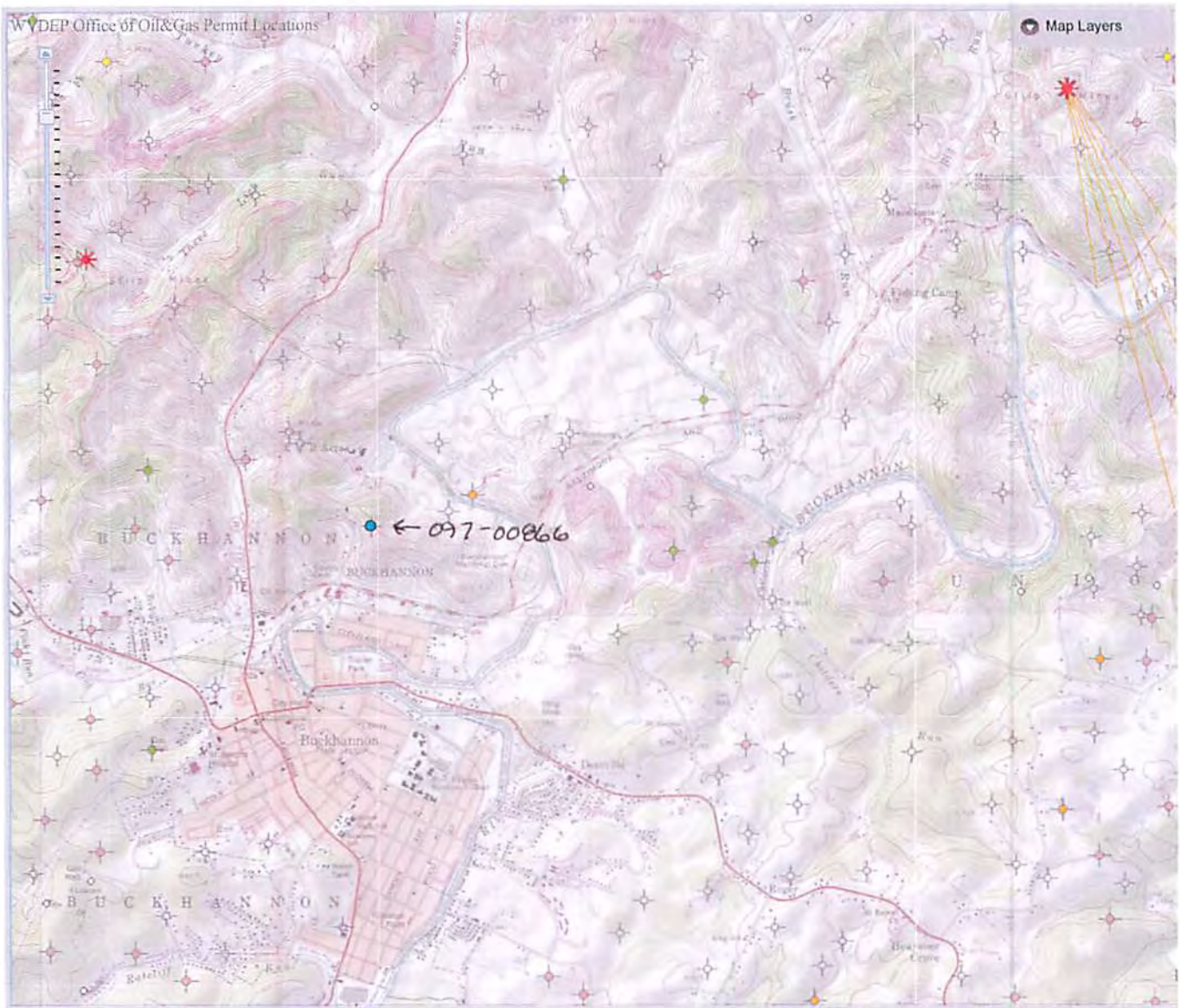
WELL LOCATION MAP
FILE NO. UPS-866

+ 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.

10/09/2015

M-B.

S. Ups 866



Attribute Search Results Legend Location Search About

API	Permit Type	Received	Issued	Completa	Operator	Formation	Well Status	Well Type	Well Use	Farm Name
097-00866	Other Well	NA	1964-12-25	NA	MOUNTAIN V OIL & GAS, INC.	Not Available	Abandoned Well	Not Available	Not Available	POST, JOHN

Received
Office of Oil & Gas
AUG 20 2015

10/09/2015

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-097-00866 WELL NO.: POST 1-TD

FARM NAME: JOHN H POST

RESPONSIBLE PARTY NAME: EXCO RESOURCES (PA), LLC

COUNTY: UPSHUR DISTRICT: BUCKHANNON

QUADRANGLE: PHILIPPI

SURFACE OWNER: CJ MARTIN II & MARTIN C J II FAMILY GIFT TRUST

ROYALTY OWNER: ALLIANCE PETROLEUM

UTM GPS NORTHING: 4317652

UTM GPS EASTING: 567400 GPS ELEVATION: 1500'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
Real-Time Differential

- 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 Scarborough
Signature

Surface Landman
Title

8/24/15
Date

Received
AUG 24 2015
Office of Oil and Gas
WV Dept. of Environmental Protection