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**west virginia** department of environmental protection

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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

May 18, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1701626, issued to EMAX OIL COMPANY, 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  
Farm Name: McMILLAN, CLYDE S.  
**API Well Number: 47-1701626**  
**Permit Type: Plugging**  
Date Issued: 05/18/2015

**Promoting a healthy environment.**

**05/22/2015**

## 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.

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### CONDITIONS

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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.

1701626P

CK# 8653  
100<sup>00</sup>

1) Date April 15, 2015  
2) Operator's Well No. Clyde McMillan No.  
3) API Well No. 47-017 - 01626

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

1) Well Type: Oil  / Gas  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage  ) Deep  / Shallow

2) Location: Elevation 1043 Watershed Glade Run  
District Grant County Doddridge Quadrangle Centerpoint

3) Well Operator Emax Oil Company 7) Designated Agent John T. Haskins  
Address PO Box 907 Address PO Box 907  
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Douglas Newlon 9) Plugging Contractor Name R. L. Wharton Enterprises, Ltd.  
Address 4060 Dutchman Road Address 261 Shiloh Lane  
Macfarlan, WV 26148 Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
Mobilize equipment and rig up.  
Space all plugs with 6% gel. Plugs will be type 1 cement.  
200 foot cement plug at bottom of well from TD of 2098' to 1898'.  
Allow cement to set up overnight. Tag plug next day prior to proceeding.  
100' cement plug from 1600' to 1500' at estimated free point of 4 1/2 casing.  
125' cement plug from 975' to 1100' at elevation.  
<sup>275</sup>125' cement plug at 275' to <sup>surface</sup>150' above and below bottom of 8 5/8 casing.  
~~100' cement plug at 100' to 0' surface.~~ Erect monument with API number and date of plugging.

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

Work order approved by inspector Douglas Newlon Date 5-20-2015  
05/22/2015



1701626P

Form OG-10

39-30  
4-54



RECEIVED  
SEP 22 1971

STATE OF WEST VIRGINIA OIL & GAS DIVISION  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

Rotary   
Bladder   
Cable Tools   
Storage  WELL  
Oil or Gas Well Gas (KIND)

Quadrangle Centerpoint  
Permit No. DOD-1626

WELL RECORD

Company Warren Drilling Company  
Address 1215 United Founders Tower  
Oklahoma City, Oklahoma 73112  
Farm Clyde S. McMillan Acres 75  
Location (waters) \_\_\_\_\_  
Well No. #1 Elev. 1043  
District Grant County Doddridge  
The surface of tract is owned in fee by Cecil McMillan  
Address West Union, W. Va.  
Mineral rights are owned by Clyde S. McMillan  
Route 2 Address West Union, W. Va.  
Drilling commenced 7-20-71  
Drilling completed 7-24-71  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 10ths Water in \_\_\_\_\_ Inch  
10ths Merc. in \_\_\_\_\_ Inch  
Volume 516,000 Cu. Ft.  
Rock Pressure 485 lbs. 52 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) 750 bbls. of water with 32,000 lbs. of sand

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			Depth set
8 1/4	213	213	
6 3/4			
5 3/16			Perf. top <u>1987</u>
4 1/2	1993	1993	Perf. bottom <u>1993</u>
3			Perf. top _____
2			Perf. bottom _____
Liners Used			

Attach copy of cementing record.  
CASING CEMENTED 4 1/2" SIZE 1993 No. Ft 7-20-71 Date  
Amount of cement used (bags) 80  
Name of Service Co. Dowell  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 516,000  
ROCK PRESSURE AFTER TREATMENT 485 HOURS 52  
Fresh Water 80 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth 1987 - 1993

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	40			
Slate			40	90			
Red rock			90	130			
Sand			130	180			
Slate			180	220			
Lime			220	275			
Red rock			275	320			
Slate			320	380			
Slate & shells			380	430			
Red rock			430	470			
Sand			470	550			
Lime			550	610			
Slate			610	675			
Sand			675	750			
Red rock			750	820			
Lime			820	910			
Lime & shells			910	980			
Sand			980	1030			
Slate			1030	1090			
Slate & shells			1090	1160			
Lime			1160	1240			
Red rock			1240	1320			
Sand			1320	1405			
Slate			1405	1500			
Red rock			1500	1560			
Sand			1560	1610			
Lime			1610	1670			
Slate			1670	1730			

05/22/2015

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red rock			1730	1770			
Slate			1770	1870			
Lime			1870	1968			
Sand			1968	2086			
T D				2086			

05/22/2015

Date September 21, 1971  
 APPROVED John R. Warren Owner  
 By James F. Scott, Agt.  
 (Title)

1701626P

WW-4A  
Revised 6-07

1) Date: 04/15/2015  
2) Operator's Well Number  
Clyde McMillan No. 1

3) API Well No.: 47 - 017 - 01626

**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>Philip M. and Sheila C. McMillan</u>	Name <u>None</u>
Address <u>54 McMillan Farm Road</u> <i>✓ waived</i>	Address _____
<u>West Union, WV 26456</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Douglas Newlon</u>	(c) Coal Lessee with Declaration
Address <u>4060 Dutchman Road</u>	Name <u>None of Declaration</u>
<u>Macfarlan, WV 26148</u>	Address _____
Telephone <u>(304) 932-8049</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 Emax Oil Company  
 By: John T. Haskins *[Signature]*  
 Its: President  
 Address PO Box 907  
Jane Lew, WV 26378  
 Telephone (304) 884-7156



Subscribed and sworn before me this 15<sup>th</sup> day of April  
Dale Lee Thorne, Dale Lee Thorne Notary Public  
 My Commission Expires Aug 1, 2015

Received  
Office of Oil & Gas  
APR 17 2015

**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](mailto:depprivacyofficer@wv.gov).

05/22/2015

OFFICE OF THE  
COMMISSIONER OF STATE OF WEST VIRGINIA  
DATE FILED: 05/22/2015  
16 S. TERRY DR.  
MARTINSBURG, WV 26101



1701626P

**SURFACE OWNER WAIVER**

Operator's Well  
Number

47-017-01626

**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 57<sup>th</sup> 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.

**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.

FOR EXECUTION BY A CORPORATION,

 Date 3/26/15 Name \_\_\_\_\_  
Signature By \_\_\_\_\_  
Its \_\_\_\_\_

 3/26/15  
Signature

Received  
Office of Oil & Gas  
APR 17 2015  
Date \_\_\_\_\_

Signature

05/22/2015



1701626 p

WW-9  
Rev. 05/10

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

Page \_\_\_\_\_ of \_\_\_\_\_  
API NUMBER 47- 017 - 01626  
Operator's Well No. MCMILLAN NO. 1

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name EMAX OIL COMPANY OP CODE 307743  
Watershed GLADE RUN Quadrangle SMITHBURG  
Elevation 1005.52' County DODDRIDGE District GRANT

Description of anticipated Pit Waste: FLUIDS ASSOCIATED WITH THE PLUGGING OF EXISTING GAS WELLS

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

Will a synthetic liner be used in the pit? YES If so, what ml.? + 20 ml.

Proposed Disposal Method For Treated Pit Wastes:

- X Land Application
- \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)
- \_\_\_\_\_ Off Site Disposal (Supply for WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain) \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR  
If oil based, what type? Synthetic, petroleum, etc. NOT OIL BASED  
Additives to be used? NONE  
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  
Landfill or offsite permit number? NONE

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 Division 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 [Signature]  
Company Official (Typed Name) JOHN HASKINS  
Company Official Title DESIGNATED AGENT

Subscribed and sworn before me this 15<sup>th</sup> day of April, 20 15  
Dale Lee Thorne (Dale Lee Thorne) Notary Public Commissioner

My commission expires Aug 1, 2015

Received  
Office of Oil & Gas  
APR 17 2015



05/22/2015

OFFICIAL SEAL  
COMMISSIONER, STATE OF WEST VIRGINIA  
DATE: FEB 17 2015  
15 S. TERRY DR.  
BURLINGTON, WV 25801  
WV COMMISSION EXPIRES AUGUST 1, 2015

05/22/2015

1701626A

LEGEND

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe with size in inches	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Artificial Filter Strip	
North		Pit: cut walls	
Water wells		Pit: compacted fill walls	
Drill Site		Area for Land Application of Pit Waste	

Proposed Revegetation Treatment: Acres Disturbed 1.25 Prevegetation pH 6.5  
 Lime according to pH test Tons/acre or correct to pH 7.0  
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)  
 Mulch HAY OR STRAW 2 Tons/acre

Seed Mixtures

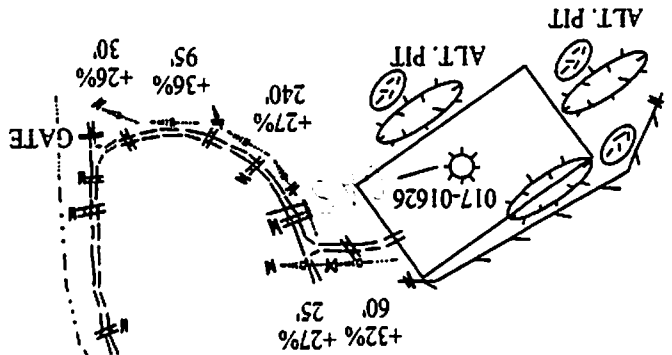
Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARDGRASS	25	ORCHARDGRASS	25
BIRDSFOOT TREFOIL	15	BIRDSFOOT TREFOIL	15
LADINO CLOVER	10	LADINO CLOVER	10

Attach:  
 Drawing(s) of road, location, pit and proposed area for land application.  
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Douglas Neuber*  
 Title: *Oil & Gas Inspector* Date: *5-20-2015*  
 Field Reviewed? (        ) Yes (        ) No



LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018 OR 5762



-10% TO +36%, 2900'

DATE: 03/27/15 PAGE \_\_\_\_\_ of \_\_\_\_\_

QUADRANGLE: SMITHBURG WELL NO.: NO. 1  
 MCMILLAN

DISTRICT: GRANT COUNTY: DODDRIDGE

WATERSHED: GLADE RUN

JANE LEW, WV 26378

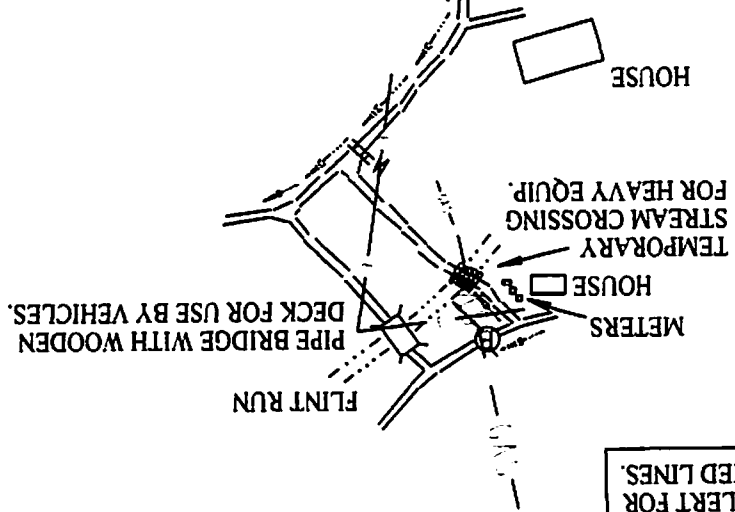
P. O. BOX 907

EMAX OIL COMPANY

DRAWINGS TO ACCOMPANY FORM WW-9

NOTE: ALL GRADES OVER 20% ARE INDICATED.  
 Received  
 Office of Oil & Gas  
 APR 17 2015

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.



05/22/2015

1701626P

1701626P



Received  
Office of Oil & Gas  
Apr 27 2015

LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018 OR 5762

DRAWINGS TO ACCOMPANY FORM WW-9	
EMAX OIL COMPANY	
P. O. BOX 907	
JANE LEW, WV 26378	
WATERSHED:	GLADE RUN
DISTRICT:	GRANT COUNTY: DODDRIDGE
QUADRANGLE:	SMITHBURG WELL NO.: NO. 1
DATE:	03/27/15 PAGE ___ of ___

05/22/2015



1701626P

WW-7  
5-02



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


API: 47-017-01626 WELL NO.: MCMILLAN NO. 1  
FARM NAME: CLYDE S. MCMILLAN  
RESPONSIBLE PARTY NAME: EMAX OIL COMPANY  
COUNTY: DODDRIDGE DISTRICT: GRANT  
QUADRANGLE: SMITHBURG  
SURFACE OWNER: PHILIP M. MCMILLAN  
ROYALTY OWNER: PHILIP M. MCMILLAN, ET. AL.  
UTM GPS NORTHING: 4,354,032.90 METERS  
UTM GPS EASTING: 526,988.30 METERS GPS ELEVATION: 306.48 METERS (1005')

Received  
Office of Oil & Gas  
APR 17 2015

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 and Gas will not accept GPS coordinates that do not meet the following requirements:

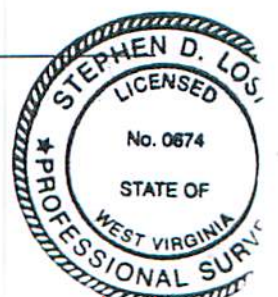
- Datum: NAD 1983, Zone: 17 Coordinate Units: meters Altitude: Height above mean sea level (MSL) - meters
- Accuracy to Datum - 3.05 meters
- Data Collection Method: Survey Grade GPS  : Post Processed Differential  Real-Time Differential   
Mapping Grade GPS  : Post Processed Differential  Real-Time Differential

I the undersigned hereby state this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulation issued and prescribed by the Office of Oil and Gas.

Signature   
Stephen D. Losh, PS #674

Title WV Professional Surveyor #674

Date 03/27/15



05/22/2015

EOC USE: NAD 27 WV NORTH SPC: MCMILLAN NO. 1 = 306,420.16' 1,664,255.00' ELEV. = 1005.52'



CK# 8053  
100.00  
1701626P

**EMAX OIL COMPANY**  
PO BOX 907  
Jane Lew, WV 26378

Phone (434) 978-1004

Fax (434) 978-1044

April 15, 2015

Department of Environmental Protection  
Office of Oil & Gas  
601 57<sup>th</sup> Street NE  
Charleston, WV 25304

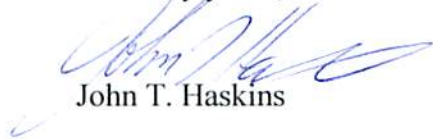
Re: Plugging Permit – API No. 47-017-01626

Dear Sir or Madam:

I enclose an “Application for a Permit to Plug and Abandon” for the Clyde McMillan well, API No. 47-017-01626. I also enclose a check made payable to the “WV DEP” in the amount of \$100.00.

Please do not hesitate to contact me should you have any questions about the enclosed application.

Sincerely yours,



John T. Haskins

Enclosures

cc (w/encls): Mr. Douglas Newlon

Received  
Office of Oil & Gas  
APR 17 2015

05/22/2015

Now

Operator: EMAX OIL COMPANY  
API: 1701626  
WELL No: 1  
Reviewed by: gwm Date: 5/15/15  
05 Day End of Comment: 04/22/15

### CHECKLIST FOR FILING A PERMIT

Plugging

CK # 8053  
\$100.00

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit) CK # 8053