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

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 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: 1
Farm Name: McMILLAN, CLYDE S.
API Well Number: 47-1701626
Permit Type: Plugging
Date Issued: 05/18/2015

Promoting a healthy environment.

1701626P

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.

1701626P

V-4B
ev. 2/01

CK # 8053
100.00

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

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

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

6) Well Operator Emax Oil Company
Address PO Box 907
Jane Lew, WV 26378

7) Designated Agent John T. Haskins
Address PO Box 907
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Douglas Newlon
Address 4060 Dutchman Road
Macfarlan, WV 26148

9) Plugging Contractor
Name R. L. Wharton Enterprises, Ltd.
Address 261 Shiloh Lane
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.

275 ~~125'~~ cement plug at 275' to surface ~~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 pluggin

otification must be given to the district oil and gas inspector 24 hours before permitt
ork can commence.

ork order approved by inspector Douglas Newlon Date 5-20-2015

1701626P

Form OG-10

39-30
4-54

RECEIVED
SEP 22 1971
OIL & GAS DIVISION
DEPT. OF MINES

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

Rotary ☒
Spudder ☐
Cable Tools ☐
Storage ☐

Quadrangle Centerpoint

Permit No. DOD-1626

WELL RECORD

Oil or Gas Well Gas (KIND)

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			
16			Kind of Packer
13			
10			Size of
8¼	213	213	
6⅝			Depth set
5 3/16			
4½	1993	1993	
3			Perf. top 1987
2			Perf. bottom 1993
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 4½" 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
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			

(over)

1701626P

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			

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 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Philip M. and Sheila C. McMillan
Address: 54 McMillan Farm Road ✓ waived
West Union, WV 26456

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name: None
Address

(b) Coal Owner(s) with Declaration
Name: None
Address

Name
Address

(c) Coal Lessee with Declaration
Name: None of Declaration
Address

6) Inspector: Douglas Newlon
Address: 4060 Dutchman Road
Macfarlan, WV 26148
Telephone: (304) 932-8049

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
Its: President
Address: PO Box 907
Jane Lew, WV 26378
Telephone: (304) 884-7156

OFFICIAL SEAL
COMMISSIONER, STATE OF WEST VIRGINIA
DALE LEE THORNE
16 S. TENNEY DR.
BUCKHANNON, WV 26201
MY COMMISSION EXPIRES AUGUST 1, 2015

Subscribed and sworn before me this 15th 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 depprivacyoffier@wv.gov.

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 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.

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.

Signature Date 3/26/15

Sheila McMillan 3/26/15

FOR EXECUTION BY A CORPORATION, ETC.

Name

By

Its

Date

Signature Date

Received
Office of Oil & Gas
APR 17 2015

1701626 P

WW-9
Rev. 05/10

Page _____ of _____

API NUMBER 47- 017 - 01626

Operator's Well No. MCMILLAN NO. 1

STATE OF WEST VIRGINIA
DIVISION 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 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.? ~~10~~ 20 MI.

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.

Received
Office of Oil & Gas
APR 17 2015

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 15th day of April, 20 15

Dale Lee Thorne (Dale Lee Thorne) ~~Notary Public~~ commissioner

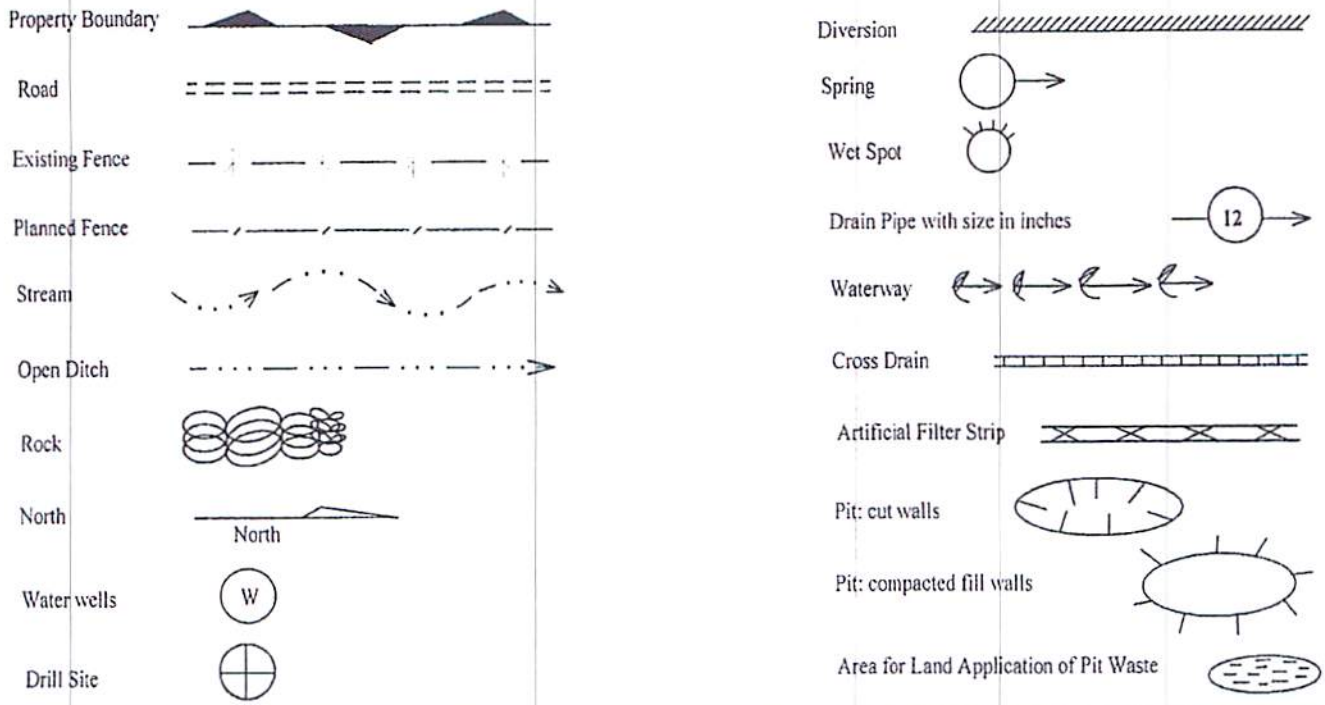
My commission expires Aug 1, 2015

OFFICIAL SEAL
COMMISSIONER, STATE OF WEST VIRGINIA
DALE LEE THORNE
16 S. TENNEY DR.
BUCKHANNON, WV 26201
MY COMMISSION EXPIRES AUGUST 1, 2015

OFFICIAL SEAL
COMMISSIONER, STATE OF WEST VIRGINIA
DALE LEE WYGRAM
16 S. TEMPLEY DR
BUCKHANNON, WV 26201
MY COMMISSION EXPIRES AUGUST 1, 2016

1701626P

LEGEND



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.

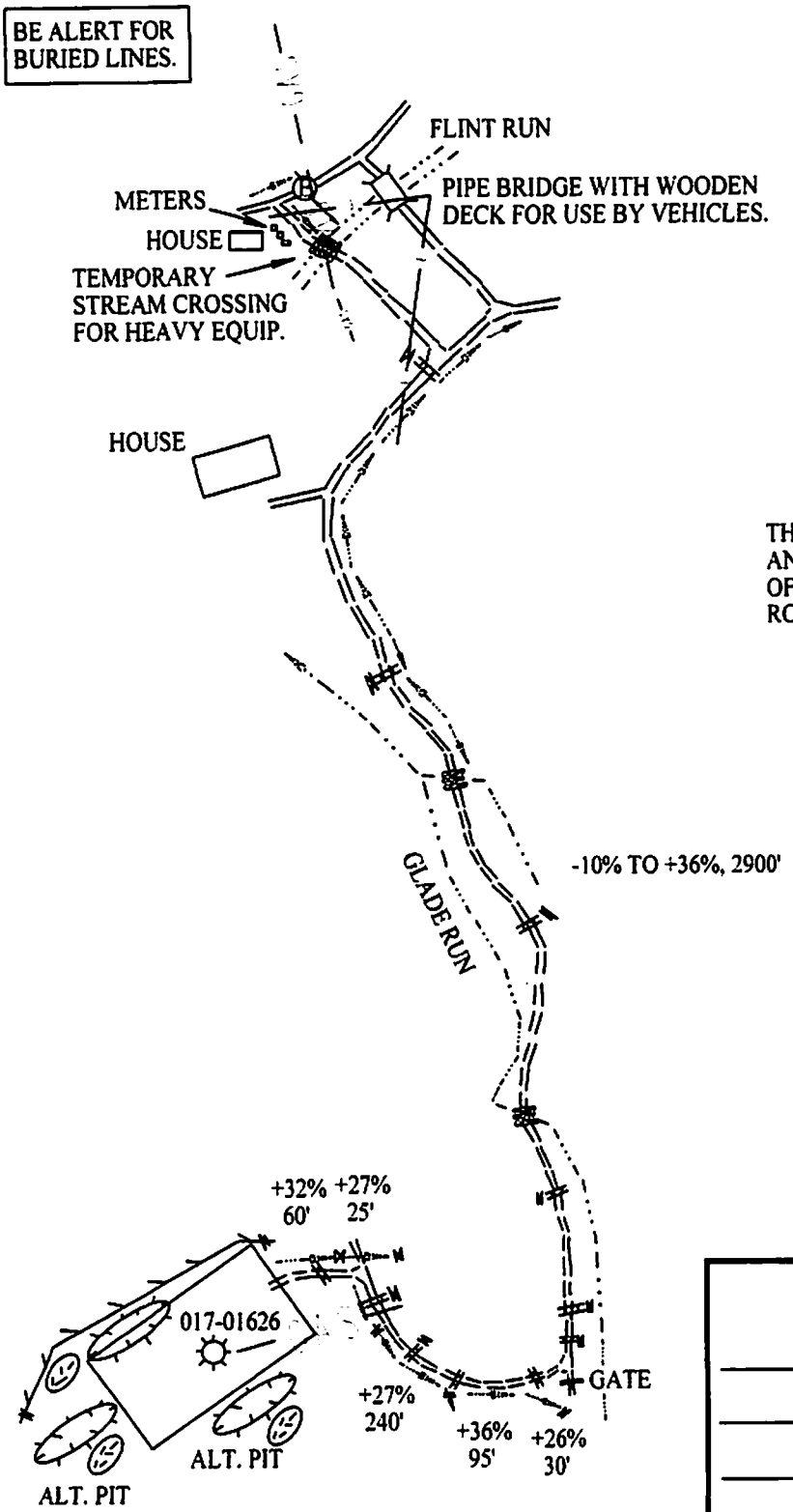
Plan Approved by: Douglas Newlon

Title: Oil & Gas Inspector Date: 5-20-2015

Field Reviewed? ( ) Yes (✓) No

1701626P

BE ALERT FOR BURIED LINES.



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

NOTE: ALL GRADES OVER 20% ARE INDICATED.

Received
Office of Oil & Gas
APR 17 2015

DRAWINGS TO ACCOMPANY FORM WW-9

EMAX OIL COMPANY

P. O. BOX 907

JANE LEW, WV 26378

WATERSHED: GLADE RUN

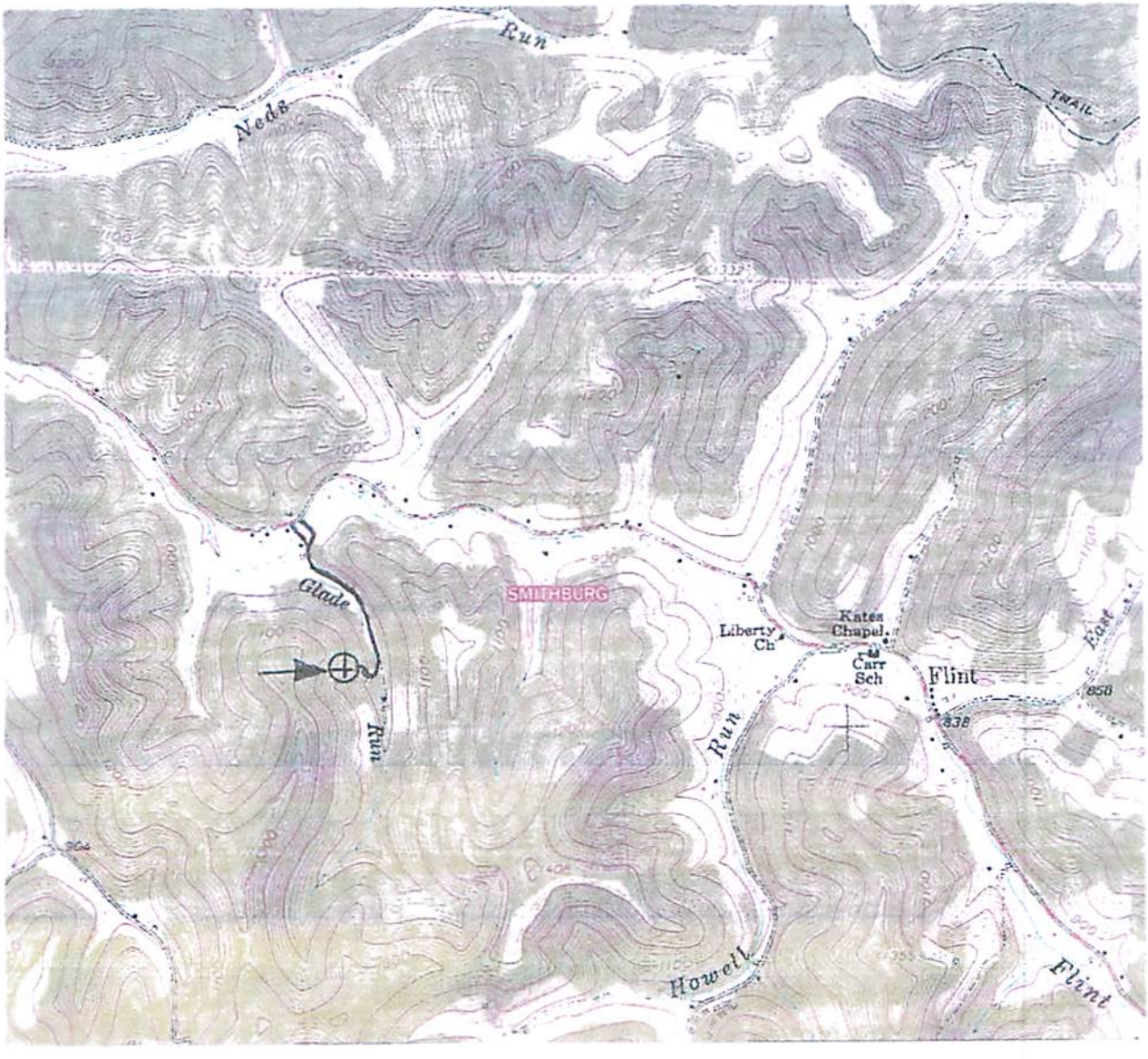
DISTRICT: GRANT COUNTY: DODDRIDGE

QUADRANGLE: SMITHBURG WELL NO.: MCMILLAN NO. 1

DATE: 03/27/15 PAGE ____ of ____

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

1701626P



Received
Office of Oil & Gas
Apr 17 2015

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.: MCMILLAN NO. 1

DATE: 03/27/15 PAGE ____ of ____

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

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 & Ga
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:

1. Datum: NAD 1983, Zone: 17 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 X : Post Processed Differential ____ Real-Time Differential X

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 _____ Title WV Professional Surveyor #674
Stephen D. Losh, PS #674

Date 03/27/15

STEPHEN D. LOSH LICENSED No. 0674 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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 57th 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

T

NOW

Operator: EMAX OIL COMPANY

API: 1701626

WELL No: 1

Reviewed by: gmm Date: 5/15/15

05 Day End of Comment: 04/22/15

CHECKLIST FOR FILING A PERMIT

Plugging

CK # 8053
$100.00

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

OR

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