



**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 18, 2013

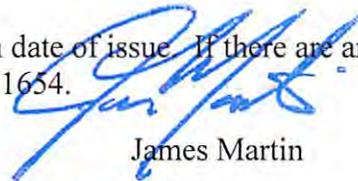
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3300126, issued to DOMINION TRANSMISSION 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: 5117  
Farm Name: MCDONALD, SHARON S.  
**API Well Number: 47-3300126**  
**Permit Type: Plugging**  
Date Issued: 10/18/2013

**Promoting a healthy environment.**

## 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

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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.

## API Well 47-033-00126 Plugging Permit Application

Gentlemen:

I have attached well records for the original drilling of this well in 1918, along with a record from 1944 when the well was drilled deeper (from 2070' to 2264'). You may find this information helpful during the plugging process.

During the drilling process the records indicate the following depths where water and gas were encountered:

Fresh Water	273'	
Gas	1241'	Maxon
Gas	1447'	Big Injun
Salt Water	1805'	Fifty Foot
Gas	2061'-2017'	Gordon
Gas	2136'	Fourth
Gas	2200'	Fifth

The records also indicate that none of the casing strings were cemented, so retrieving the casing may be possible. Therefore I would like to see the following manner of plugging attempted:

Pull 2264' of 2" and set a Class A Cement Bottom Hole Plug from 2264'-2000'.

6% Gel spacer from 2000' – 1841' and try to pull 1841' of 5 3/16" casing.

Set a 100' Class A Cement plug from 1841' – 1741' to isolate salt water.

6% Gel spacer from 1741'-1450' and try to pull 1398' of 6 5/8" casing.

Set a Class A Cement plug from 1450' – 1200' to cover gas zones.

Try to remove 8 1/4" casing and 10" casing. 6% Gel spacer from 1200' – 300'.

Set 300 feet of Class A Cement to surface. Set monument with API number.

OK  
J W M

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. W-5117  
3) API Well No. 47-\_\_\_\_-\_\_\_\_

Reassigned: 47-033-01432

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 1,120' Watershed Two Lick Creek  
District Union County Harrison 33 Quadrangle West Milford 7.5' 669

6) Well Operator Dominion Transmission Inc. 7) Designated Agent James Blasingame  
Address 445 West Main Street Address 445 West Main Street  
Clarksburg, WV 26301 Clarksburg, WV 26301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Waco Oil & Gas  
Address P.O. Box 2327 Address 1595 US Highway 33 E  
Buckhannon, WV 26201 Glenville, WV 26351

10) Work Order: The work order for the manner of plugging this well is as follows:  
Try to retrieve casing, if possible. Cement to surface. 1) Will set 100' Class A cement plug over Gordon 2100' - 2000'. 2) Will set 6% gel plug from 2000' - 1700' bottom Gantz. 3) Will set 200' Class A cement plug over Gantz 1700' - 1500'. 4) Will set 6% gel plug from 1500' - 1400'. (5) Try to pull out 6 5/8" pipe and set 100' Class A plug at bottom of pipe. 6) Will set 6% gel plug from 1400' - 1200'. 7) Will set 200' Class A cement 1200' - 1000'. 8) Will set 6% gel plug from 1000' to bottom of 8 1/4" pipe - 870'. 9) Will set 100' Class A cement plug at bottom of 8 1/4" pipe 870' - 770'. 10) Will set 6% gel plug from 770' - 200'. 11) Will set 200' Class A cement plug from 200' to surface. 12) P.S. - will perforate all zones behind pipe and cement.

Received  
SEP 26 2013  
Office of Oil and Gas  
Dept. of Environmental Protection

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

Work order approved by inspector [Signature] Date 9/23/2013

3300126 P



Reassigned: 47-033-01432

Fee: Mar 1432

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. 126 Oil or Gas Well Gas  
(KIND)

Company	Hope Natural Gas Company	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	445 W. Main St. Clarksburg, W. Va.	Size			
Farm	M. G. Law Acres 183	16			Kind of Packer
Location (waters)	Two Lick Run	18			5 3/16 x 6 5/8
Well No.	5117 Elev.	10	<del>159</del> 159	<del>159</del> 159	Size of
District	Union County Harrison	8 1/4	<del>892</del> 892	<del>892</del> 892	B. H.
The surface of tract is owned in fee by	Address	6%	1398	1398	Depth set 1841
Mineral rights are owned by	Address	5 3/16	1841	1841	<del>1841</del>
Drilling commenced	Jan. 15, 1918	8			Perf. top
Drilling completed	Mar. 12, 1918	2			Perf. bottom
Date Shot	Not shot From To	Liners Used			Perf. top
With					Perf. bottom
Open Flow	/10ths Water in Inch				
Volume	22 7/8 on spring gauge thru 4" Cu. Ft.				
Rock Pressure	835 lbs. 24 hrs.				
Oil	----- bbls., 1st 24 hrs.				
Fresh water	273 feet				
Salt water	1805 feet				

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Not cemented \_\_\_\_\_  
COAL WAS ENCOUNTERED AT None FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Dunkard			348	416	Water	273	
Big Dunkard			469	539			
Gas Sand			660	745			
First Salt			760	955			
Second Salt			986	1062			
Mexon			1224	1276	Gas	1241	
Little Lime			1278	1300			
Pencil Cave			1300	1328			
Big Lime			1328	1383			
Big Injun			1383	1500	Gas	1447	
Gantz			1688	1712			
Fifty Foot			1790	1831	Water	1855	
Thirty Foot			1876	1890	Gas 1881	1881	
Gordon Stray			1989	2023			
Gordon			2029	Gas-2061-	Gas	2061-2070	
Total depth				2070			

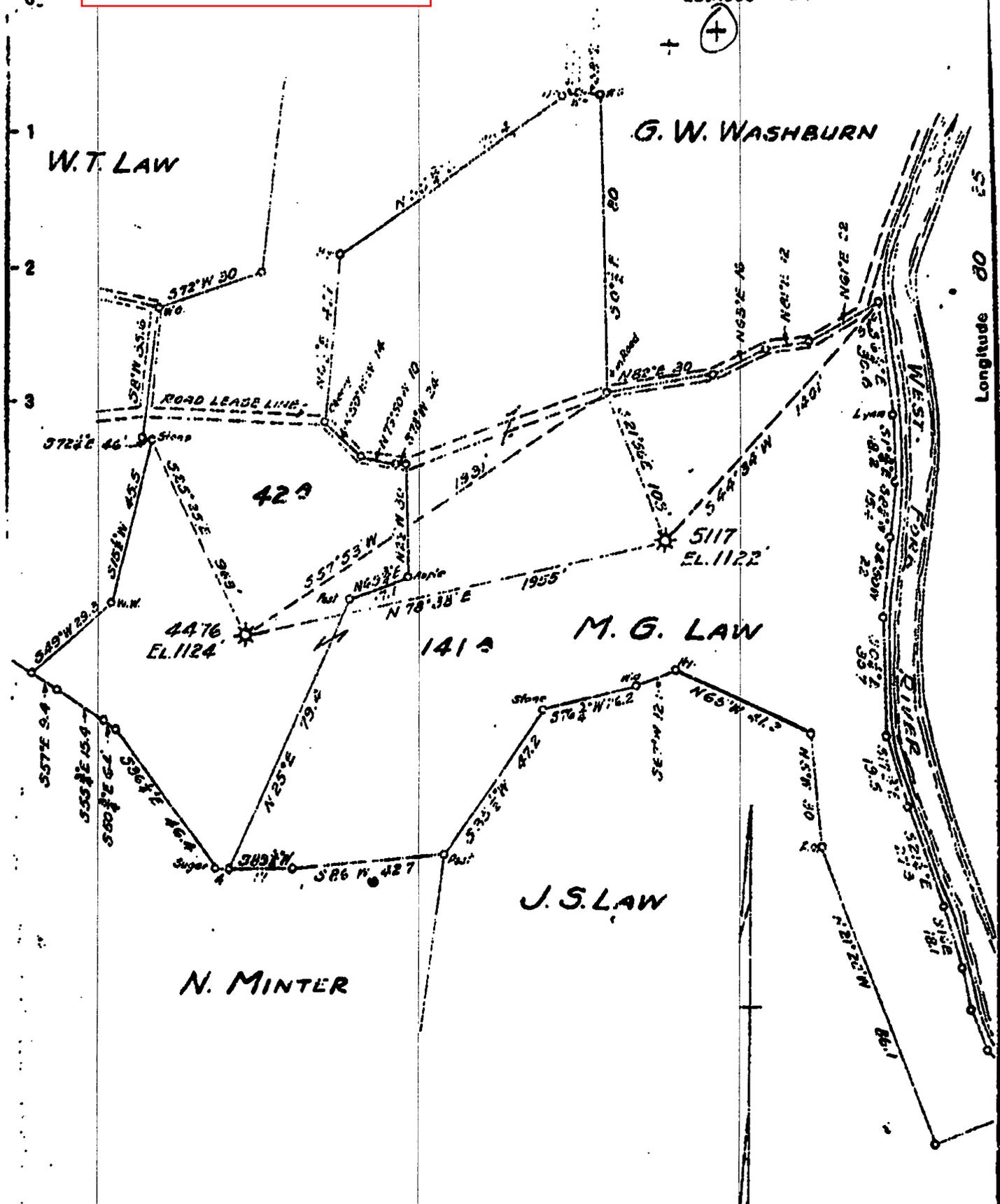
TO BE DRILLED DEEPER

189197  
↑  
OCT 1944  
WEST VIRGINIA  
DEPARTMENT OF MINES



Reassigned: 47-033-01432

Latitude 39 10



New Location...  
 Drill Deeper... X 5117  
 Abandonment...

MAP 31.58 SQ. S20 L-8 RE. 537 P. 5 17

Company	HOPE NATURAL GAS CO.	
Address	CLARKSBURG, W. VA.	
Farm	M. G. LAW	
Tract	Acres 183	Lease No. 27184
Well (Farm) No.	Serial No. AS SHOWN	
Elevation (Spirit Level)	AS SHOWN	
Quadrangle	WESTON	
County	HARRISON	District UNION
Engineer	W. M. Brown	
Engineer's Registration No.	900	
File No.	Drawing No.	
Date	10-7-40	Scale 1" = 600'

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

WELL LOCATION MAP  
 FILE NO. HAR-126 D

+ 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 lines of original tracing

33- 00126  
01432

Reassigned: 47-033-01432

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
W-5117 \_\_\_\_\_  
3) API Well No.: 47 - \_\_\_\_\_

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

Check # 17803  
\$ 200.00

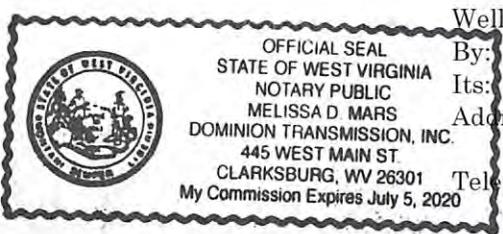
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Sharon S. McDonald</u> ✓	Name <u>N/A</u>
Address <u>P.O. Box 204</u>	Address _____
<u>Lost Creek, WV 26385</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Sharon S. McDonald</u> ✓
_____	Address <u>P.O. Box 204</u>
_____	<u>Lost Creek, WV 26385</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</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	<u>Dominion Transmission Inc.</u>
By:	<u>James Blasingame</u> <i>James O. Blasingame</i> <u>9/17/13</u>
Its:	<u>Designated Agent</u>
Address	<u>445 West Main Street</u>
	<u>Clarksburg, WV 26301</u>
Telephone	<u>304-669-4850</u>

Received

Subscribed and sworn before me this 17th day of September, 2013  
Melissa D. Mars Notary Public  
My Commission Expires July 5, 2020

SEP 26 2013  
Office of Oil and Gas  
Dept. of Environmental Protection

**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).

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. W-5117 \_\_\_\_\_

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 Dominion Transmission Inc. OP Code 307048

Watershed Two Lick Creek Quadrangle West Wilford 7.5'

Elevation 1,120' County Harrison District Union

Description of anticipated Pit Waste: Rock cuttings/drilled solids, drilling and completion fluids

Will a synthetic liner be used in the pit? Yes \_\_\_\_\_ 20 MIC

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 \_\_\_\_\_ )

SDW  
9/23/2013

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_ )
- Swabbing
- Plugging

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 James D Blasingame 9/17/2013

Company Official (Typed Name) James Blasingame

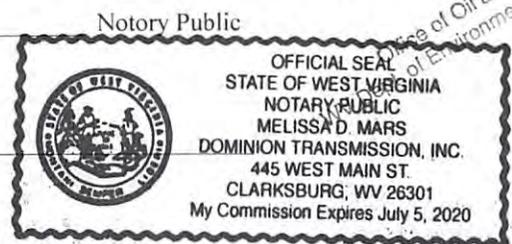
Company Official Title Designated Agent

Subscribed and sworn before me this 17th day of September, 20 13

Melissa D. Mars

My commission expires July 5, 2020

Received  
SEP 26 2013  
Office of Oil and Gas  
Department of Environmental Protection



LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2.58 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY-31		40	ORCHARD GRASS		15
ALSIKE CLOVER		5	ALSIKE CLOVER		5
ANNUAL RYE		15			

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Sgt. DWanabell

Title: Oil & Gas Inspector

Date: 9/23/2013

Field Reviewed? ( ) Yes ( X ) No

Received

SEP 26 2013

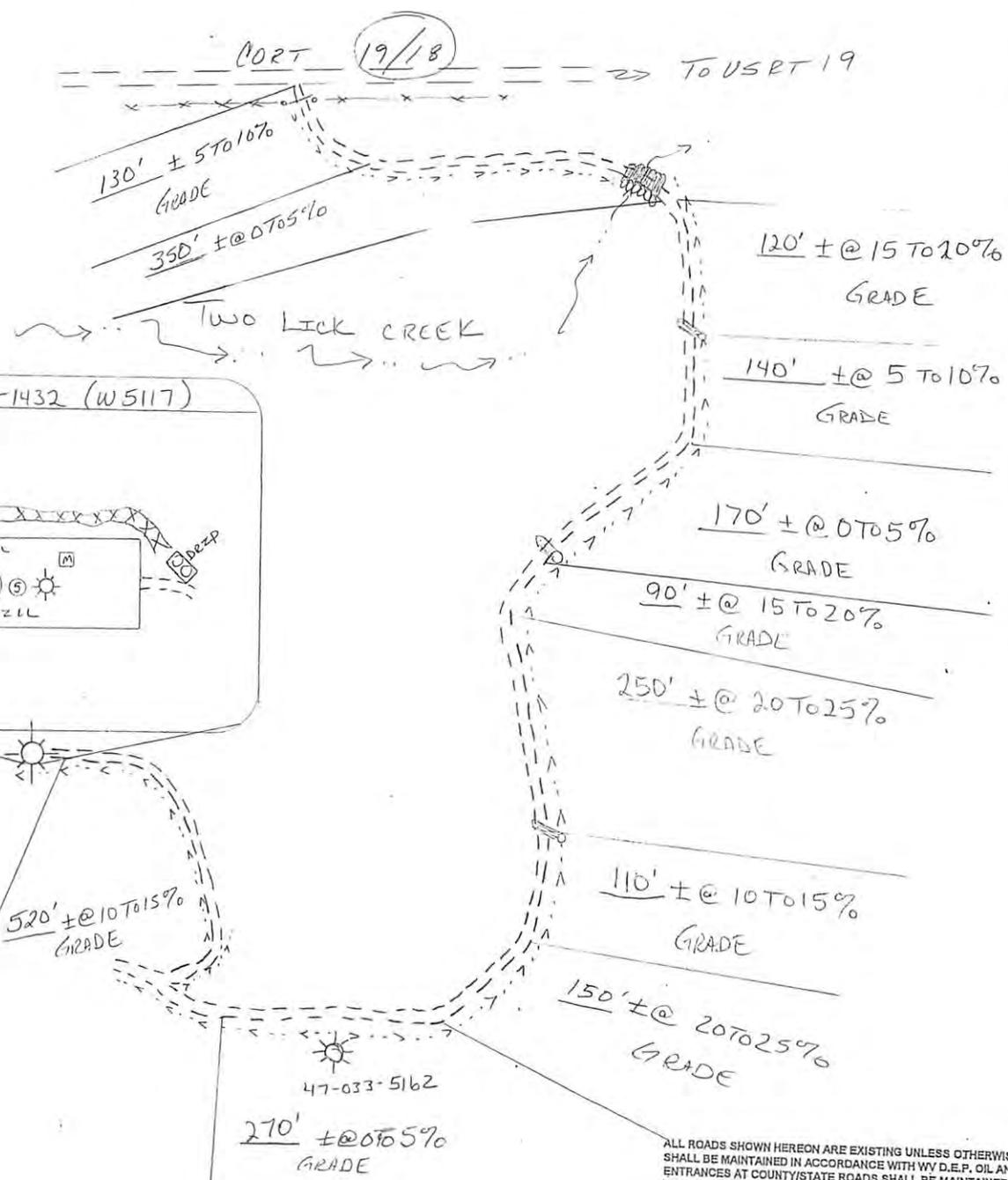
Office of Oil and Gas  
WV Dept. of Environmental Protection

# M. G. LAW LEASE WELL NO. W-5117

Reassigned: 47-033-01432

Form WW-9

page of



SDW  
9/23/2013

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION. CUT & STACK ALL MARKETABLE TIMBER.

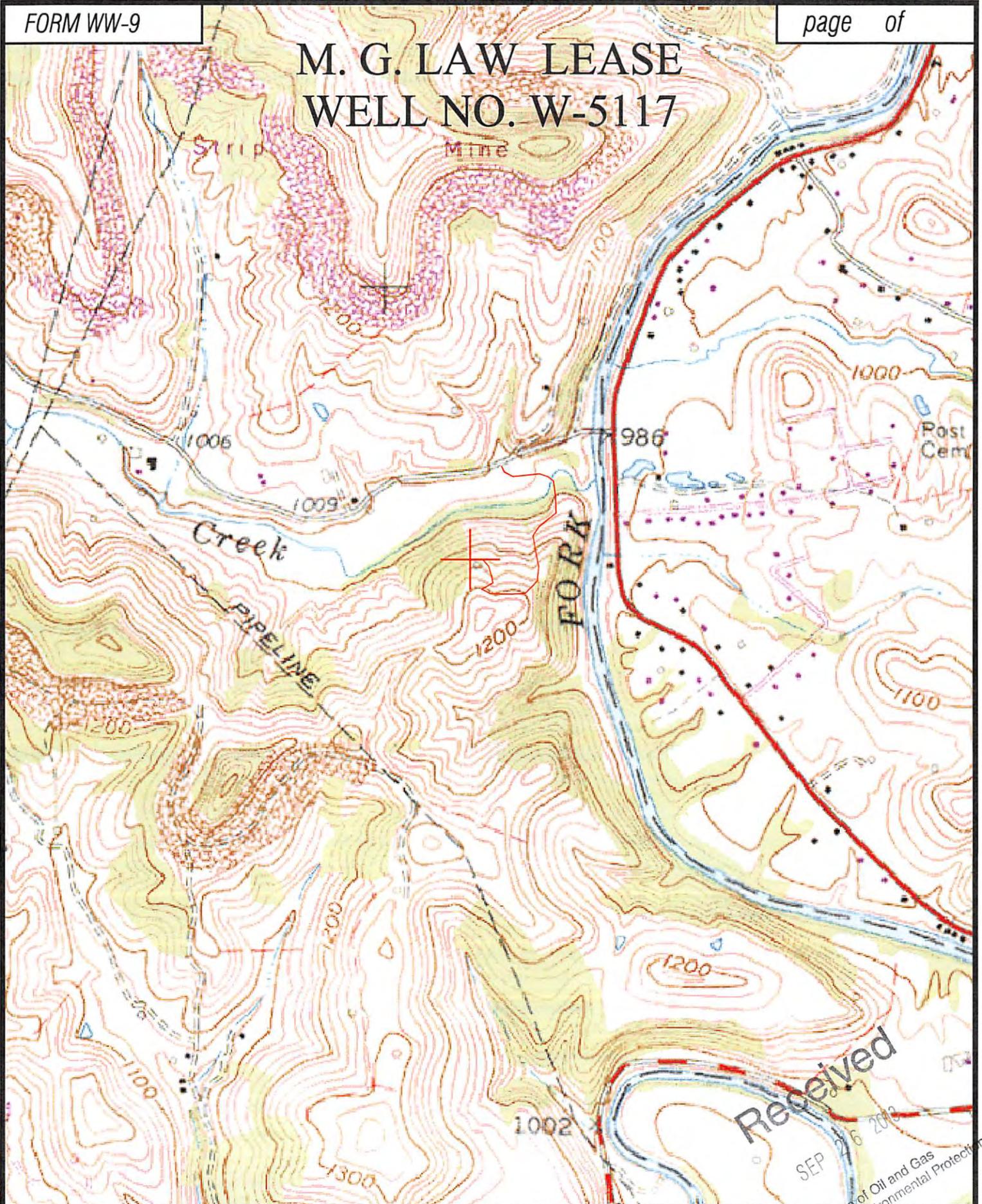
STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

Office of Oil and Gas  
West Virginia Department of Environmental Protection

**SLS** SMITH LAND SURVEYING, INC.  
P.O. BOX 150 GLENVILLE, WV. 26351

Phone: (304) 462-5634 Fax: 462-5656 email: [sls@slssurveys.com](mailto:sls@slssurveys.com)  
DRAWN BY JAS DATE 8/21/13 FILE NO. 8042

# M. G. LAW LEASE WELL NO. W-5117



Received  
SEP 26 2013  
Office of Oil and Gas  
West Virginia Dept. of Environmental Protection

**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING


 SURVEYORS  
PROJECT MANAGERS  
ENGINEERS  
ENVIRONMENTAL

328 5th Ave SE  
 P.O. Box 110  
 Newark, WV 26101  
 (304) 467-8034  
 Integrity. Integrity. Quality.

West Ohio Bureau Building  
 State Capitol Building  
 Charleston, WV 25305  
 (304) 557-9911

TOPO SECTION OF: WEST MILFORD 7.5'

FILE NO. 8042

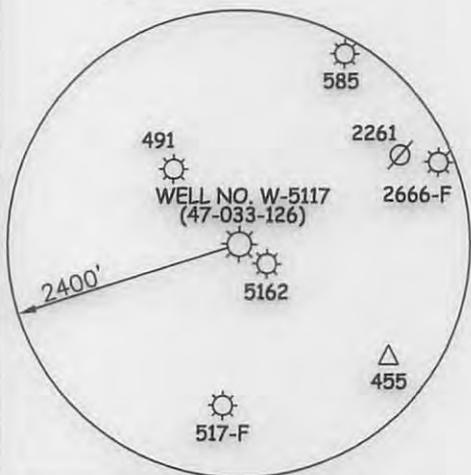
DATE: 8/29/13

SCALE: 1"=1,000'

Reassigned: 47-033-01432

# M. G. LAW LEASE 183 ACRES± WELL NO. W-5117

LONGITUDE 80°52'08"



**WELL NO. W-5117  
(47-033-126)**  
**STATE PLANE COORDINATES  
(NORTH ZONE) NAD '27**

N. 242,095  
E. 1,728,995

LAT=(N) 39.16074  
LONG=(W) 80.45573

**UTM (NAD83)(METERS)**  
 N. 4,334,765  
E. 547,038

### NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 1377 AT PAGE 58.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBFOOT MAPPING GRADE).



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 13, 20 13  
 OPERATORS WELL NO. W-5117  
 API WELL NO. 47-033-00126P  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8042PW-5117 (460-64)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBFOOT MAPPING GRADE) SCALE 1" = 500'

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



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,120' WATERSHED TWO LICK CREEK  
 DISTRICT UNION COUNTY HARRISON QUADRANGLE WEST MILFORD 7.5'

SURFACE OWNER SHARON S. McDONALD ACREAGE 190.31±  
 ROYALTY OWNER M. G. LAW HEIRS /OR ASSIGNS ACREAGE 183±  
 PROPOSED WORK: LEASE NO. 27184

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION 5TH AND GORDON SANDS  
 ESTIMATED DEPTH 2,264'

WELL OPERATOR DOMINION TRANSMISSION INC. DESIGNATED AGENT JAMES BLASINGAME  
 ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET  
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY NAME PERMIT