



**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

September 03, 2014

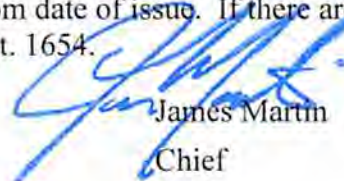
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8502427, issued to RITCHIE PETROLEUM CORP., 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 (PIERCE)  
Farm Name: PIERCE, EARL  
**API Well Number: 47-8502427**  
**Permit Type: Plugging**  
Date Issued: 09/03/2014

## 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.

WW-4B  
Rev. 2/01

- 1) Date \_\_\_\_\_, 20\_\_\_\_
- 2) Operator's  
Well No. L. E. Pierce 1
- 3) API Well No. 47-085-02427

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  / Liquid injection  / Waste disposal   
(If "Gas, Production  or Underground storage  ) Deep  / Shallow
- 5) Location: Elevation 969 Watershed Bear Run  
District Union County Ritchie Quadrangle Holbrook
- 6) Well Operator Ritchie Petroleum Corp 7) Designated Agent Kevin Snider  
Address P.O. Box 545 Address 203 Masonic Ave  
Pennsboro, WV, 26415 Pennsboro, WV 26415
- 8) Oil and Gas Inspector to be notified Name Dave Cowan  
Address 1597 Devilhole Rd  
Harrisville, WV 26362-7543
- 9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

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

*Pull pipe and fill with cement plugs and Gel as recommended by OOG inspector. ENTIRE WELL-BORE MUST BE FILLED WITH EITHER CLASS A CEMENT PLUGS OR GEL. GEL IS DEFINED AS FRESH WATER WITH A MINIMUM OF 6% BENTONITE (BY WEIGHT) AND NO OTHER ADDITIVES.*

*JWH*

*SEE ATTACHED PROCEDURE!*

Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

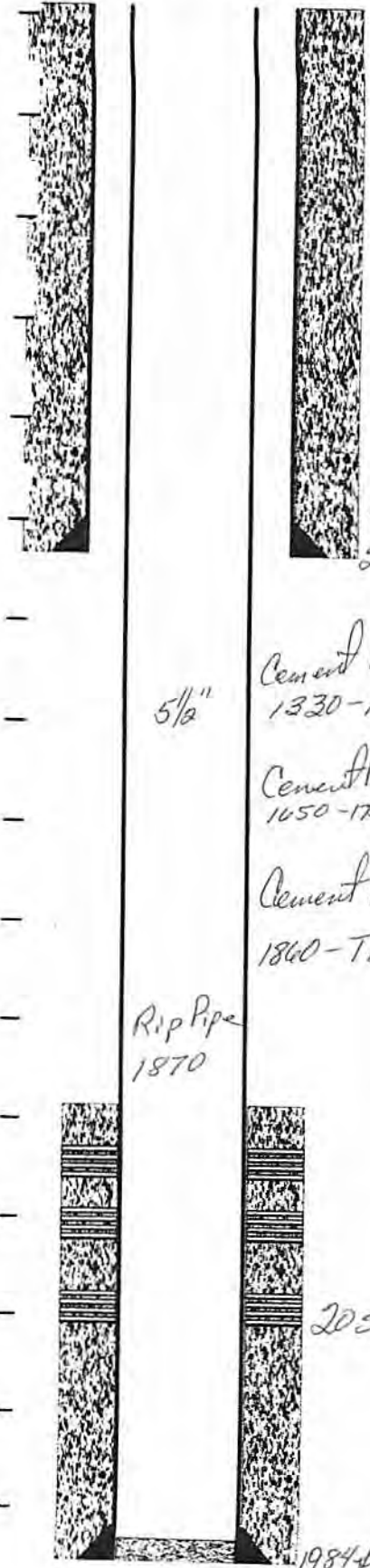
Work order approved by inspector *Daniel* Date 7-24-14



L.E. Pierce #1 47-085-02427  
 PLUGGING PROCEDURE

Proposed  
 As is

	Size	WT	Grade	Thrd	Depth	Skls/Cmt
CONDUCTOR SURFACE	16"				205ft	None
INTERMEDIATE LINER						
PRODUCTION TUBING	5 1/2"				1984ft	20 sks



Perforation Information

Casing and Tubing Information

Date	Work-Over Information
	Manuement for well will be 5 1/2 pipe and will strike up at least 36" with tag showing API # + Date Plugged

Received  
 JUL 31 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection


PREPARED BY <i>W.K. ...</i>	DATE: 7/29/14
--------------------------------	---------------

09/05/2014



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 16

Quadrangle Holbrook

Permit No. RIT-2427

WELL RECORD

Oil or Gas Well Oil & Gas  
(KIND)

Company C. A. Stricklin  
Address 5341 West Broward Blvd.  
Furn. Levis Earl Pierce Acres 81  
Location (waters) Bear Run  
Well No. 1 Elev. 969'  
District Union County Ritchie  
The surface of tract is owned in fee by L. E. Pierce  
Oxford, Address West Va.  
Mineral rights are owned by L. E. Pierce, et al  
Address Oxford, W. Va.  
Drilling commenced August 17, 1961  
Drilling completed September 11, 1961  
Date Shot Sep. 13 From 1973' To 1979'  
With 30 qts Nitro-Glycerine  
Open Flow /10ths Water in Small-Not measured Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure Not taken lbs. \_\_\_\_\_ hrs.  
Oil 5 bbls., 1st 24 hrs.  
WELL ACIDIZED No  
WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	20'	20'	Kind of Packer _____
18	319'	None	
10			Size of _____
8 3/4	1106'	None	
8 1/2			Depth set _____
6 3/16	1984'	1984'	
3			Perf. top _____
2	2017'	2017'	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED Yes SIZE 5 1/2" No. Ft. 1984' Date Sept. 4, 1961  
20 Sks.-cement, 2 sks. aquagel  
COAL WAS ENCOUNTERED AT No coal FEET Lawson INCHES  
FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT Minor increase in oil  
ROCK PRESSURE AFTER TREATMENT not taken.

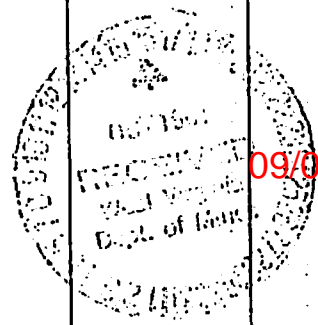
Fresh Water 1 8" baler 90 min. Feet 1385 Salt Water \_\_\_\_\_ Feet \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	50			
Sand			50	60			
Slate			60	100			
Lime			100	115			
Sand			115	125			
Red Rock			125	220			
Lime			220	250			
Red Rock			250	280			
Slate & Shells			280	360			
Red Rock			360	410			
Lime			410	455			
Slate & Shells			455	490			
Red Rock			490	520			
Slate			520	587			
Black Slate			587	595			
Slate & Shells			595	615			
Limo			615	635			
Red Rock			635	685			
Slate & Shells			685	700			
Red Rock			700	790			
Slate W			790	820			
Lime			820	860			
Slate & Shells			860	910			
Red Rock			910	955			
Slate & Shells			955	980			
Black Slate			980	1028			
Sand			1028	1063			
Slate			1063	1080			
Sand			1080	1110			

Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection



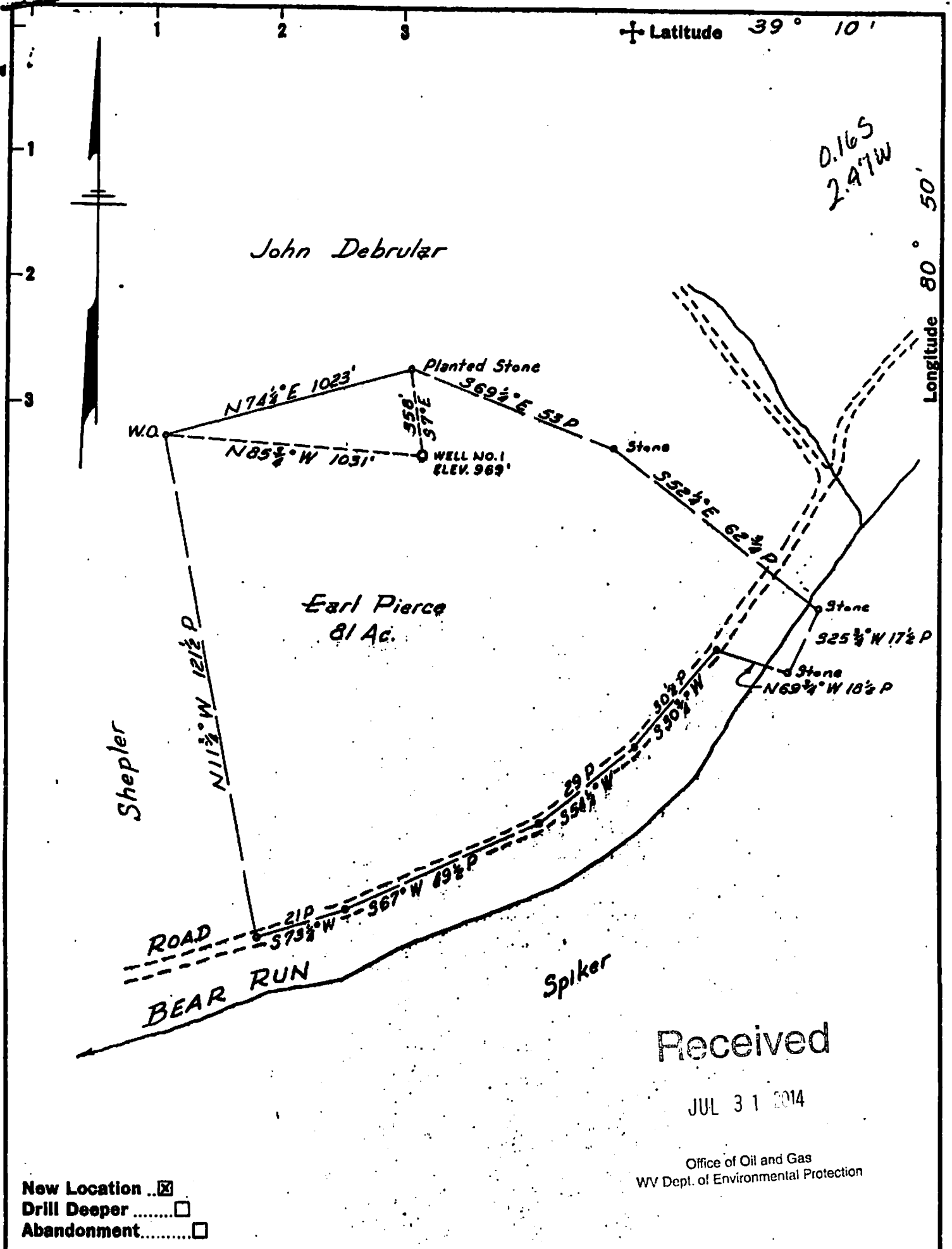
09/05/2014

RIT-2427

Formation	Color	Hard or Soft	Top 16	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1110	1120			
Slate & Shells			1120	1170			
Sand			1170	1205			
Black Slate			1205	1240			
Lime			1240	1263			
Slate W			1263	1285			
Sand			1285	1300			
Slate			1300	1310			
Sand			1310	1345			
Black Slate			1345	1350			
Gritty Lime			1350	1365			
Sand			1365	1478	Water	1385	1 baler 90 min.
Slate			1478	1485			
Sand			1485	1515			
Slate			1515	1525			
Sand			1525	1550			
Gritty Lime & Shells			1550	1570			
Slate & Shells			1570	1605			
Sand			1605	1681			
Slate			1681	1734			
Sand			1734	1745	Show oil	1734-1740	
Black slate			1745	1758			
Gritty Lime & Shells			1758	1773			
Sand			1773	1800			
Slate			1800	1816			
Sand			1816	1826			
Gritty Lime & Shells			1826	1860			
Slate			1860	1868			
Big Lime			1868	1947			
Sand			1947	1952			
Lime			1952	1962			
Sand			1962	1990	Small oil Oil	1962-1967 1973-1979	4 bal.
Lime			1990	1995			
Sand			1995	2014			
Slate			2014	2026			

09/05/2014

Date October 11, 1961APPROVED C. A. Stricklin, OwnerBy C. A. Stricklin, owner  
(Title)



Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

New Location   
 Drill Deeper   
 Abandonment

Company C. A. STRICKLIN, C. O. WISE AGT.

Address PULLMAN, W.VA.

Farm EARL PIERCE

Tract 3 Acres 81 Lease No. \_\_\_\_\_

Well (Farm) No. 1 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 969'

Quadrangle HOLBROOK NC C

County RITCHIE District UNION

Engineer Parker E. Peters

Engineer's Registration No. 485

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date JULY 22, 1961 Scale 1" = 30P

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

WELL LOCATION MAP

FILE NO. Pit. 2427

09/05/2014

+ 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.



WW-4A  
Revised 6-07

1) Date: July 14, 2014  
2) Operator's Well Number  
L.E. Pierce 1  
3) API Well No.: 47 - 085 - 02427

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

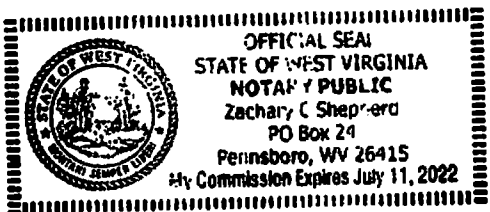
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Richard F. Pierce</u>	Name <u>None</u>
Address <u>337 Pleasant Hollow Rd.</u>	Address _____
<u>West Union, WV 26456</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Dave Cowan</u>	(c) Coal Lessee with Declaration
Address <u>1597 Devilhole Rd</u>	Name <u>None</u>
<u>Harrisville, WV 26362-7543</u>	Address _____
Telephone _____	_____

**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 Ritchie Petroleum  
 By: W Kevin Snider  
 Its: President  
 Address P.O. Box 545  
Pennington, WV - 26415-0545  
 Telephone 1-304-659-2223

**Received**

JUL 31 2014

Subscribed and sworn before me this 14th day of July

My Commission Expires July 11th, 2022

Notary Public  
Office of Oil and Gas  
WV 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).



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <i>x Richard F. Pierce</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <span style="float: right;">C. Date of Delivery 8-6-14</span></p>
<p>1. Article Addressed to:</p> <p><i>Richard F. Pierce  337 Pleasant Hollow Rd  West Union, WV  26456  CK 42152  10000</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center;"><b>RECEIVED</b>  <b>Office of Oil and Gas</b></p> <p>3. Service <i>ABC 11 2014</i></p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured <input type="checkbox"/> Collect on Delivery</p> <p><b>WV Department of Environmental Protection</b> <input type="checkbox"/> Yes</p>
<p>2. Article (Trace) <b>7012 3050 0000 3071 6643</b></p>	
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	

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 Ritchie Petroleum Corp OP Code 308319

Watershed Bear Run Quadrangle Holbrook

Elevation 969 County Ritchie District Union

Description of anticipated Pit Waste: Brine

Will a synthetic liner be used in the pit? Yes 20 mil.

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 \_\_\_\_\_)

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 W Kevin Snider

Company Official (Typed Name) W Kevin Snider

Company Official Title President

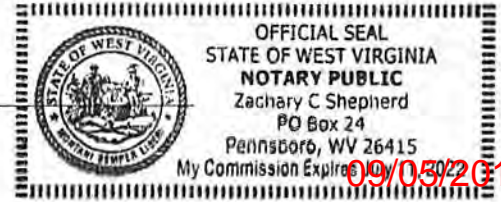
Received

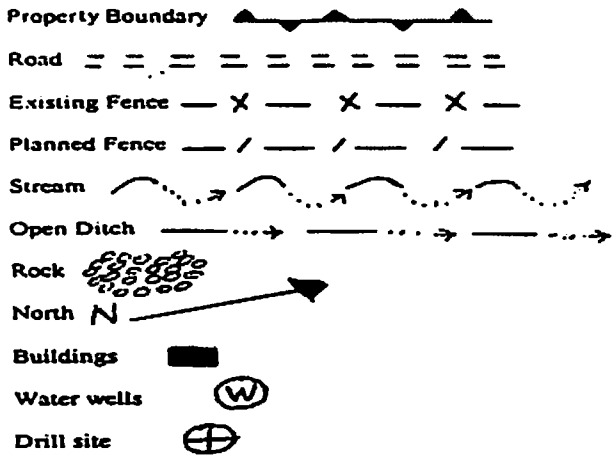
JUL 31 2014

Subscribed and sworn before me this 14<sup>th</sup> day of July, 2014 Office of Oil and Gas  
Dept. of Environmental Protection

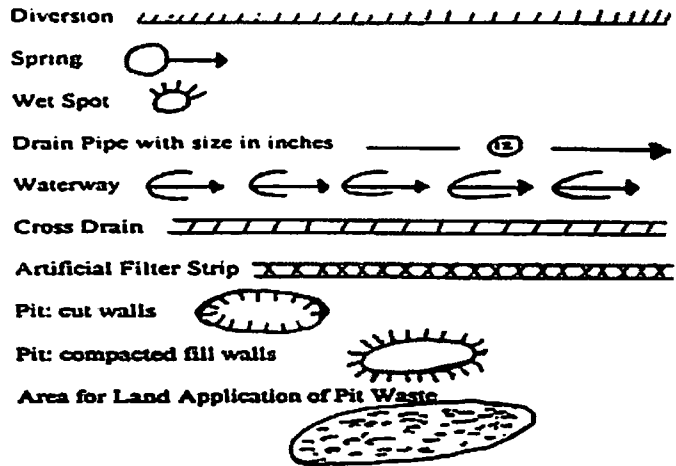
Zachary C Shepherd  
Notary Public

My commission expires July 11, 2022





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.8

Lime 2 Tons/acre or to correct to pH 7.0

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

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Clover	15/165/acre		
Halls #1 Pasture Mix	15/105/acre		

Received

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

JUL 31 2014

Photocopied section of involved 7.5' topographic sheet.

Office of Oil and Gas  
WV Dept. of Environmental Protection

Plan Approved by: David Selman

Comments: Reclaim set monument attach API 9A9

Title: air gas inspector Date: 7-24-14

Field Reviewed?  Yes  No



8502427P

# HALL'S #1 PASTURE MIXTURE

LOT # 0923-14-H#1P    DATE TESTED: 6/14    SELL BY: 2/15  
CONTAINS    PURE SEED    GERM ORIGIN

BESTFOR INTERMEDIATE RYEGRASS	29.99 %	80 %	OR
CLIMAX TIMOTHY	24.98 %	90 %	CAN
ANNUAL RYEGRASS	24.98 %	90 %	OR
POTOMAC ORCHARDGRASS	9.81 %	80 %	OR
MEDIUM RED CLOVER - COATED	8.58 %	75+15H9-S0	% OR
OTHER CROP SEEDS:	.10 %	* VARIETY NOT STATED	
INERT MATTER:	.38 %		
WEED SEEDS:	.02 %	AMS: 6143	
COATING:	3.40 %		

NOXIOUS WEED SEEDS: NONE FOUND    NET WT. 50 LBS  
CENTRAL FARM & GARDEN  
380 N. SMYSER RD  
WOOSTER, OH 44691

Seller makes no warranty, either expressed or implied, as to merchantability or fitness for a particular purpose. Seller's sole warranty is that seed sold is as shown on the label.

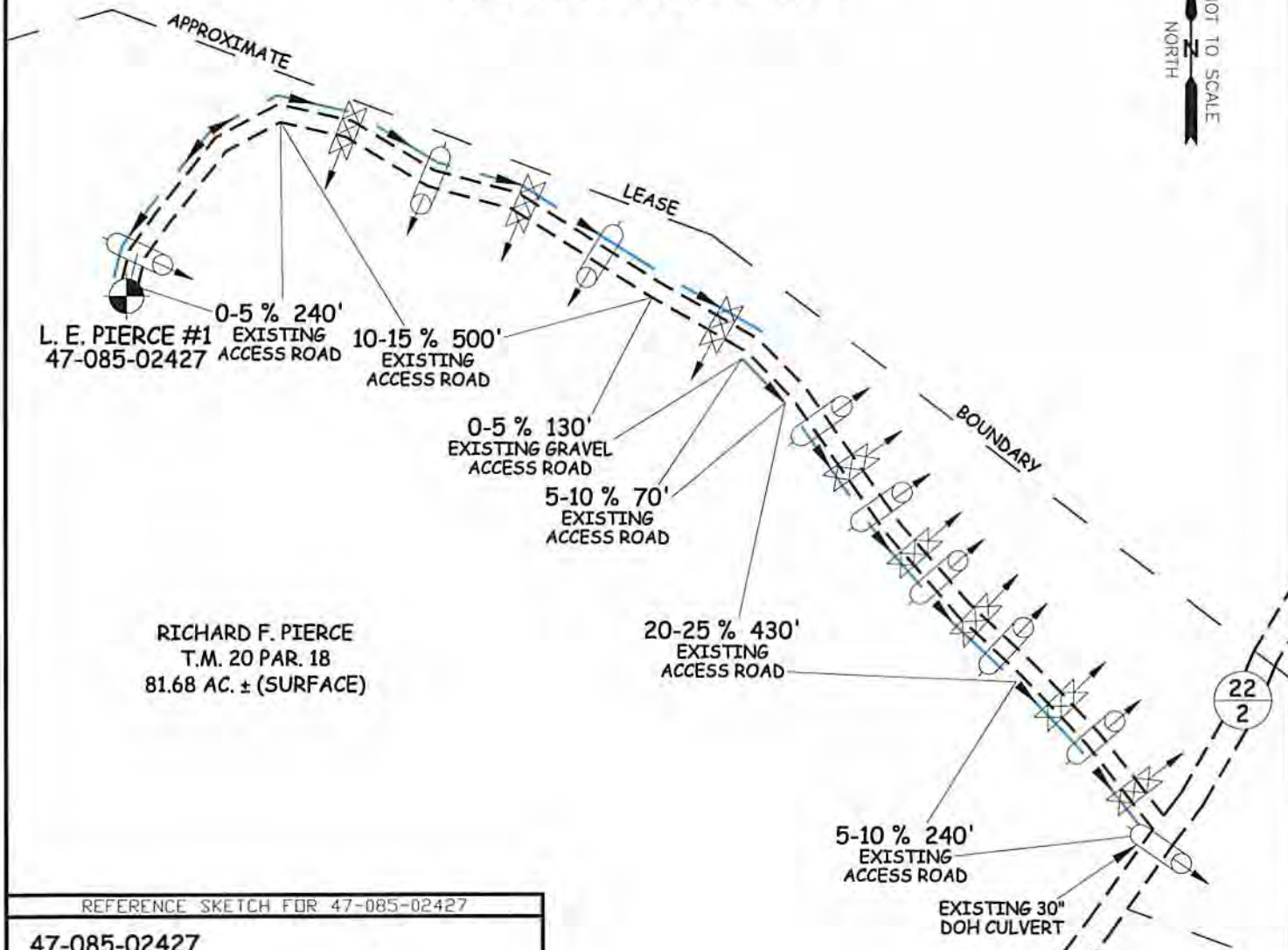
Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

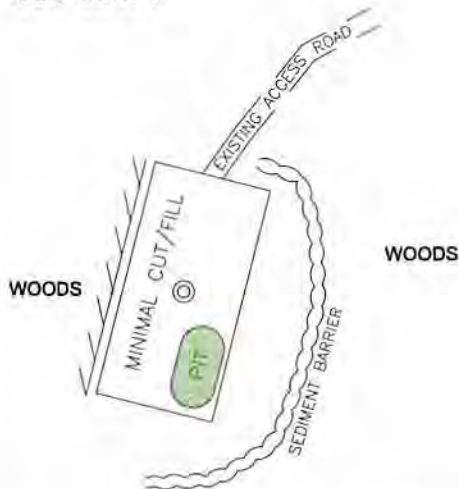
09/05/2014

# L. E. PIERCE #1 47-085-02427 RECLAMATION PLAN



REFERENCE SKETCH FOR 47-085-02427

47-085-02427



NOT TO SCALE

ALL ROADS SHOWN HEREON 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. SEPERATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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

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

PRE SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

BRUSH TO BE UTILIZED AS SEDIMENT BARRIER BELOW CONSTRUCTION AREAS.

## Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

### LEGEND

- PROPOSED 12" CULVERT
- WATER BREAK

**WILLOW LAND SURVEYING, PLLC**  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

DATE: 7.21.14

DRAWN BY: D.R.R.

FILE: 4708502427RECPLAN

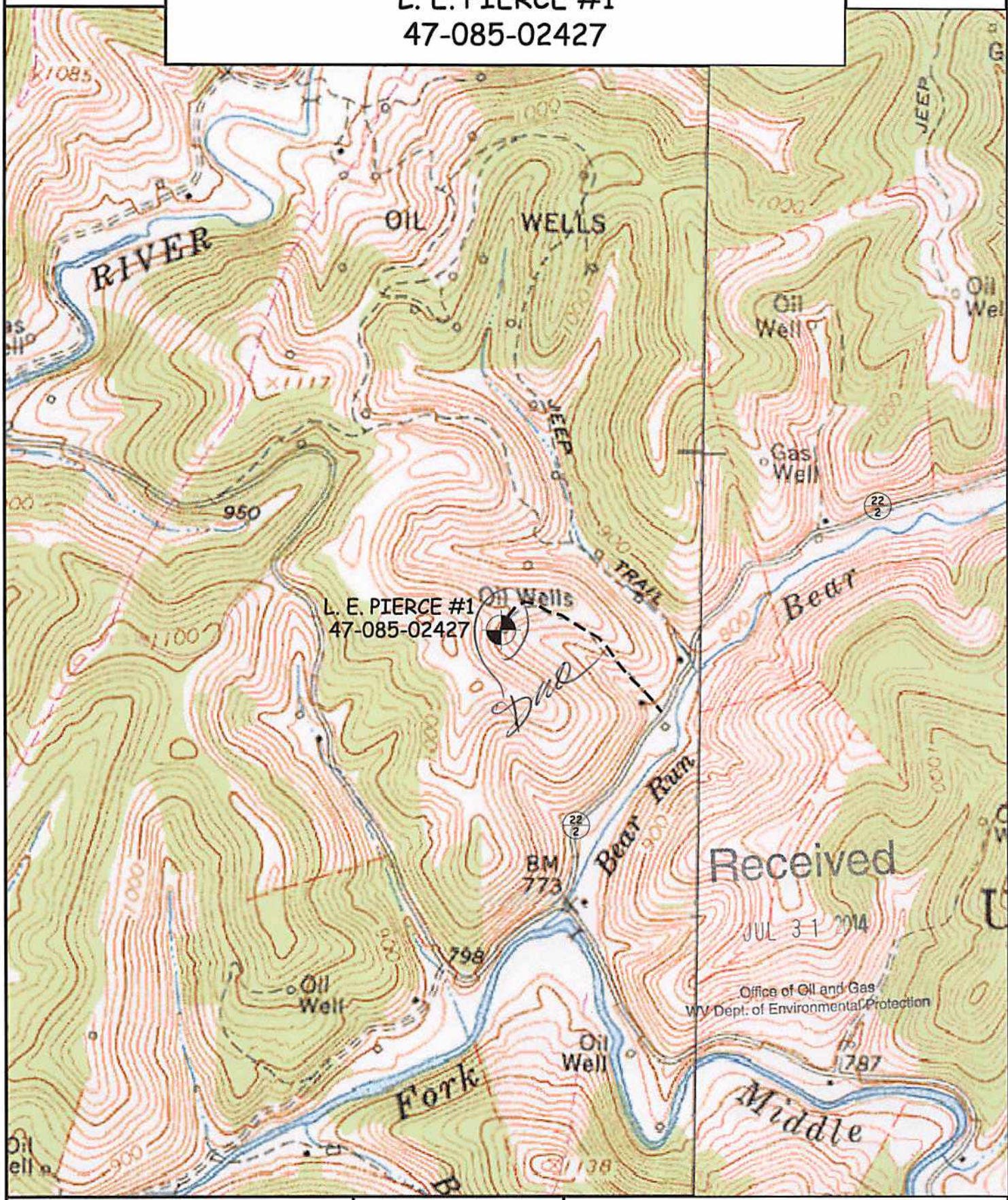
JOB #: 140905/2014



FORM WW-9

L. E. PIERCE #1  
47-085-02427

PAGE OF



L. E. PIERCE #1  
47-085-02427

Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

WILLOW LAND SURVEYING, PLLC  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

TOPO SECTION(S) OF :  
PULLMAN 7.5' QUAD.  
OXFORD 7.5' QUAD.

SCALE : 1-INCH = 1000-FEET

0' 1000' 2000' 3000'



09/05/2014

DATE: 7.21.14

DRAWN BY: D.R.R.

JOB #: 14-072WR  
FILE: 4708502427TOPO



WW-7  
8-30-06



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

API: 47-085-02427 WELL NO.: 1

FARM NAME: L.E. Pierce

RESPONSIBLE PARTY NAME: \_\_\_\_\_

COUNTY: Ritchie 95 DISTRICT: Union 4

QUADRANGLE: Pullman 7.5' 562

SURFACE OWNER: Richard F. Pierce

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4334872

UTM GPS EASTING: 510352 GPS ELEVATION: 997'

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 \_\_\_ : Post Processed Differential \_\_\_

Real-Time Differential \_\_\_

Mapping Grade GPS X : Post Processed Differential \_\_\_

Real-Time Differential X

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.

WK  
Signature

President  
Title

8/29/14  
Date

Received

JUL 31 2014

Office of Oil and Gas  
Department of Environmental Protection