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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

August 27, 2013

**WELL WORK PERMIT**

**Vertical Well**

This permit, API Well Number: 47-8510059, issued to BUCKEYE OIL PRODUCING CO, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: MILLER #30  
Farm Name: ROSS, MIKE , INC.  
**API Well Number: 47-8510059**  
**Permit Type: Vertical Well**  
Date Issued: 08/27/2013

**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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.

WW - 2B  
(Rev. 8/10)

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

85 03 612

1) Well Operator: <u>Buckeye Oil Producing Co.</u>	306103	Ritchie	Murphy	Smithville
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: Miller #30      3) Elevation: 1125

4) Well Type: (a) Oil X or Gas X  
(b) If Gas: Production      / Underground Storage       
Deep      / Shallow X

5) Proposed Target Formation(s): Big Injun Proposed Target Depth: 2400'  
6) Proposed Total Depth:      Feet Formation at Proposed Total Depth:       
7) Approximate fresh water strata depths: 60'  
8) Approximate salt water depths: 1130'

9) Approximate coal seam depths: N/A

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Drill new well - run 250' 7" casing and cement to surface. Drill to 2400' and run 4-1/2" casing. Perf and frac all productive zones.

13) CASING AND TUBING PROGRAM

	TYPE			SPECIFICATIONS		FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)		
Conductor	9-5/8"			30'				
Fresh Water	7"	New		250'	250'	cement to surface		
Coal								
Intermediate								
Production	4-1/2"	J-55	10.5	2400'	2400'	cement up over Salt Sand		
Tubing								
Liners								

Received

Packers: Kind:       
Sizes:       
Depths Set     

*Jul*  
*8-7-13*

WW-2A  
(Rev. 6-07)

1.) Date: August 5, 2013  
2.) Operator's Well Number Miller #30  
State County Permit  
3.) API Well No.: 47-085 - 10059

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Check #89254  
\$650.00

4) Surface Owner(s) to be served: (a) Name Mike Ross, Inc. W Address PO Box 219 Coalton, WV 26257 (b) Name Address (c) Name Address  
5) (a) Coal Operator Name N/A Address (b) Coal Owner(s) with Declaration Name Address (c) Coal Lessee with Declaration Name Address  
6) Inspector Dave Cowen Address Rt. 1, Box 202 Harrisville, WV 26362 Telephone 304-389-3509

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties by:

- X Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

Well Operator Buckeye Oil Producing Co.  
By: Steven W. Sigler  
Its: President  
Address P.O. Box 129 Wooster, OH 44691  
Telephone 330-264-8847

Subscribed and sworn before me this 5th day of August, 2013

Cheryl R. Beckw

Received Notary Public

My Commission Expires November 4, 2017

Oil and Gas Privacy Notice

AUG 12 2013

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)

8510059

WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 085 - \_\_\_\_\_  
Operator's Well No. \_\_\_\_\_ Miller #30 \_\_\_\_\_

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

**FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name Buckeye Oil Producing Co. OP Code 306103

Watershed (HUC 10) Crab Run Quadrangle Smithville

Elevation 1125 County Ritchie District Murphy

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

Will a pit be used for drill cuttings? Yes ✓ No \_\_\_\_\_

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes X No \_\_\_\_\_ If so, what ml.? 6 or 10 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 \_\_\_\_\_)

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Freshwater & Air

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Soap, KCL and or Claystay

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) dirt

-Landfill or offsite name/permit number? \_\_\_\_\_

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 *Steven W. Sigler*

Company Official (Typed Name) Steven W. Sigler

Company Official Title President

Subscribed and sworn before me this 5<sup>th</sup> day of August, 2013

Cheryl K. Becken

Notary Public AUG 12 2013

My commission expires Nov. 4, 2017

**Received**  
Office of Oil and Gas  
WV Dept. of Environmental Protection

Form WW-9

Operator's Well No. Miller #30

Proposed Revegetation Treatment: Acres Disturbed +/- 2 acres Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 90 bales/acre Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	30	Orchard Grass	30
Rye Grass (Ann & BT)	35	Rye Grass (Ann & BT)	35
Timothy (Climax)	25	Timothy (Climax)	25
Clover (Med. Red)	10	Clover (Med. Red)	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: [Signature]

Comments: proceed to mulch all out area no less than 2900  
per acre

Title: oil/gas inspector Date: 8-7-13

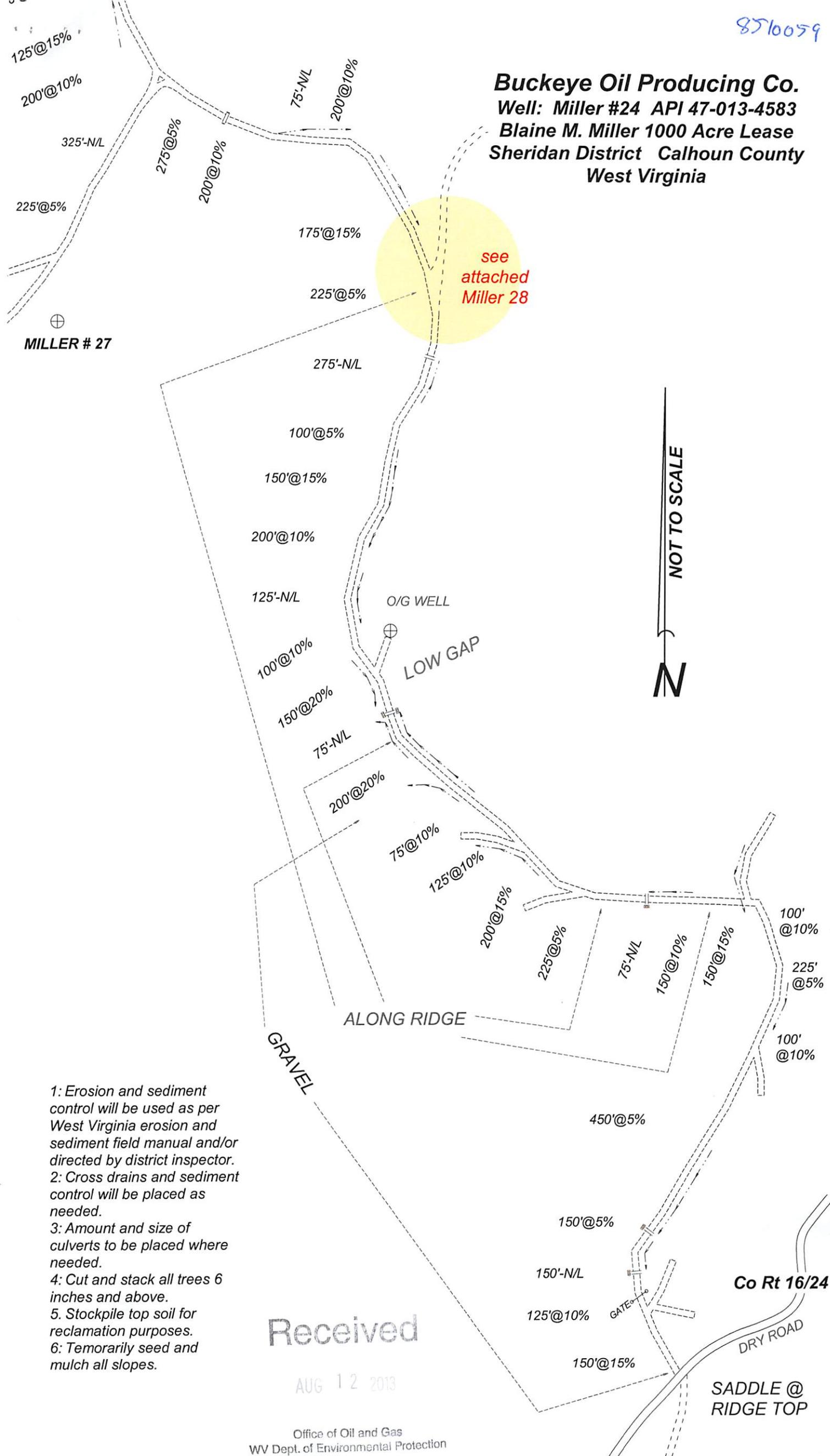
Field Reviewed?  Yes  No

Received

APR 12 2013

8510059

**Buckeye Oil Producing Co.**  
**Well: Miller #24 API 47-013-4583**  
**Blaine M. Miller 1000 Acre Lease**  
**Sheridan District Calhoun County**  
**West Virginia**



- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.

Received

AUG 12 2013

SADDLE @  
RIDGE TOP

# Buckeye Oil Producing Co.

Well: Miller #28

Blaine M. Miller 1000 Acre Lease

Murphy District Ritchie County

West Virginia

pit discharge area

100' NL

225' @10%

300' NL

see attached Miller 30

400' @5%

400' @10%

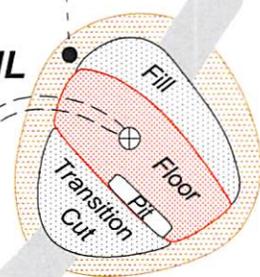
Ridge

200' NL

see attached Miller # 24 Rec. Plan

"new construction area"

Miller # 28

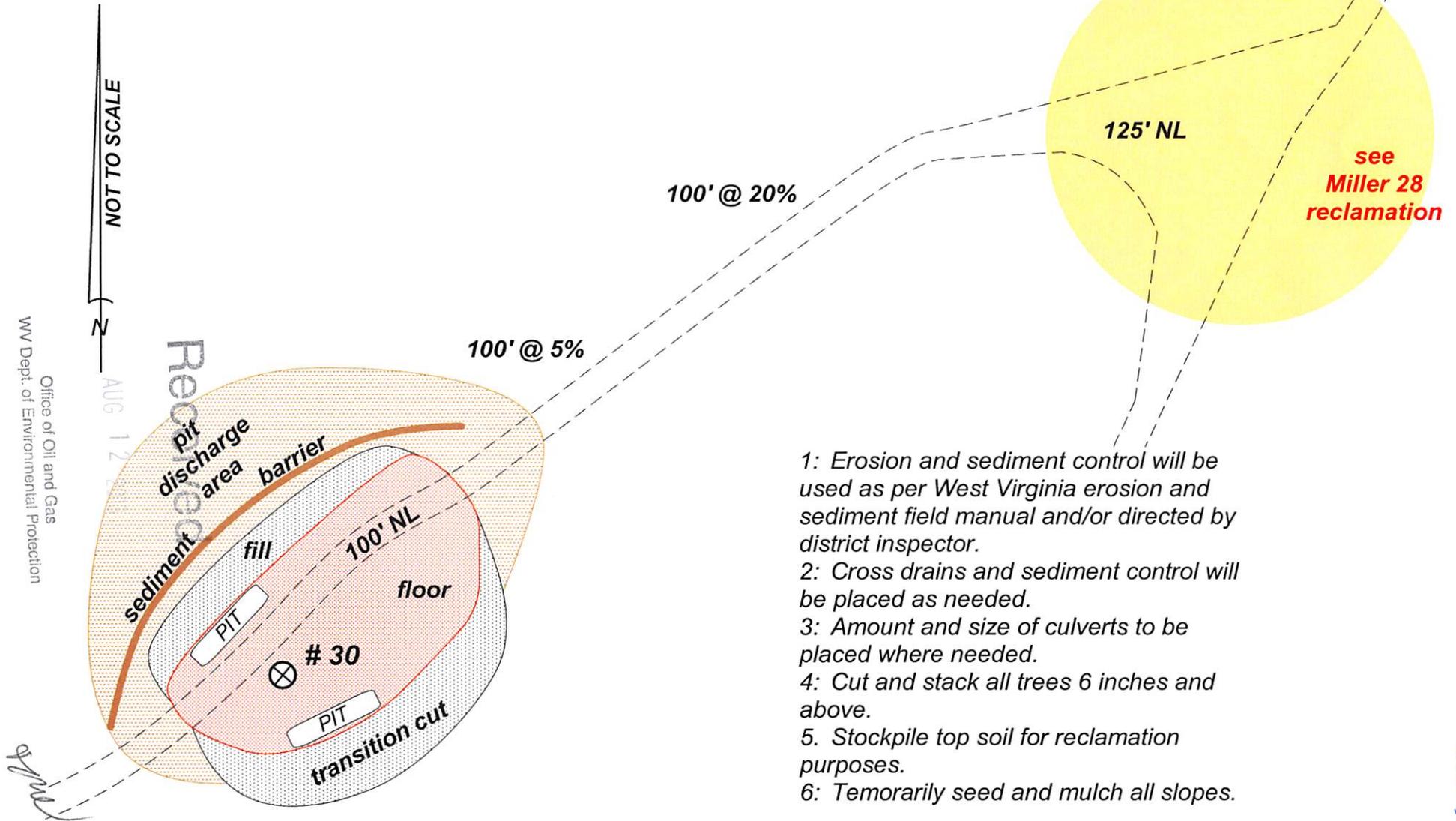


- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
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Received

AUG 12 2013

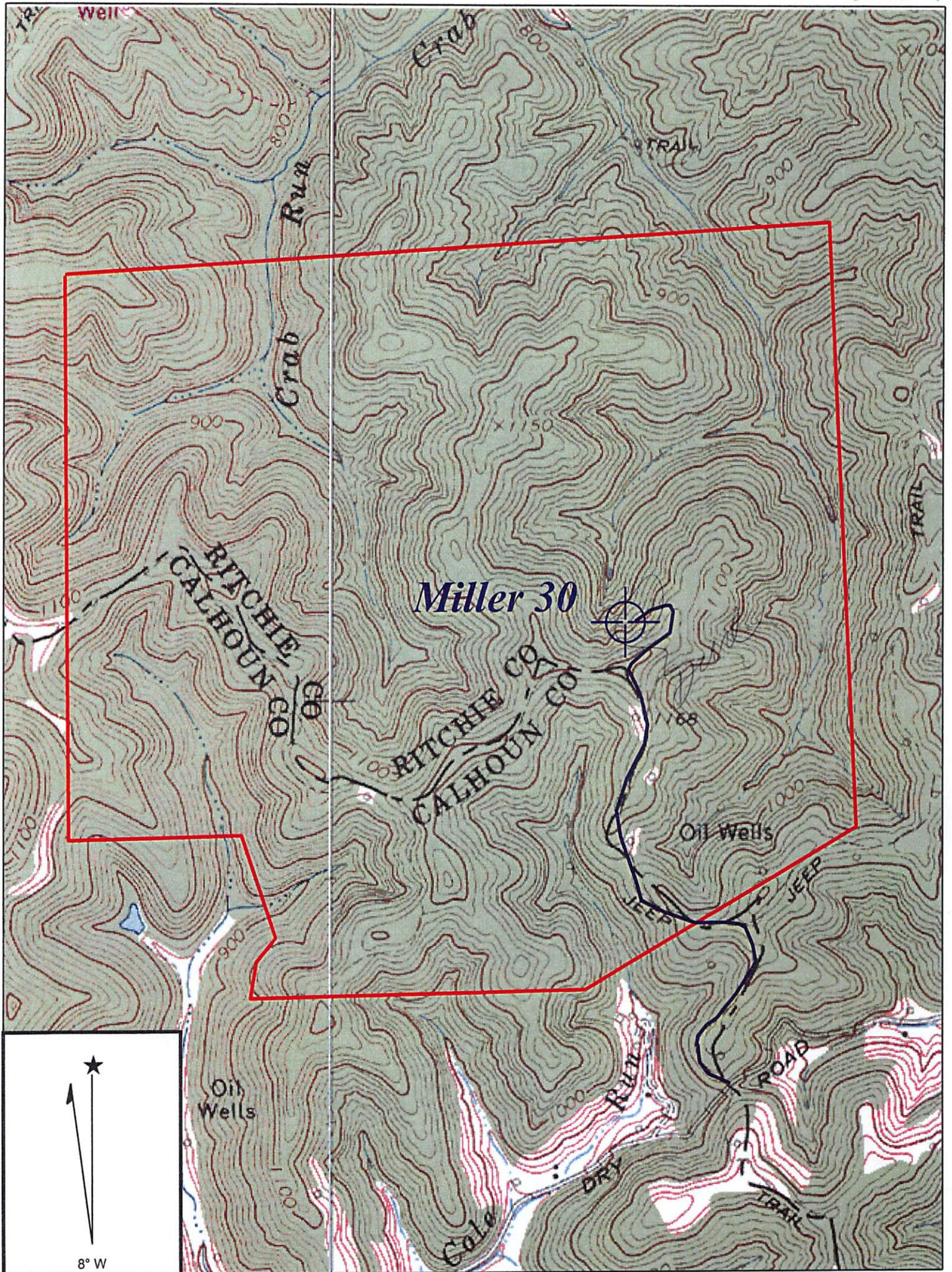
**BUCKEYE OIL**  
**Well: Miller # 30**  
**Blaine M. Miller 1000 Acre Lease**  
**Murphy District Ritchie County West Virginia**



- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
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Office of Oil and Gas  
 WV Dept. of Environmental Protection

8/0018



Copyright (C) 1997, Maptech, Inc.

**SMITHVILLE QUADRANGLE**

SCALE 1" = 1000'

**BUCKEYE OIL PROD.**

**WELL: MILLER 30  
BLAINE M. MILLER 1000 ACRE LEASE**

**MURPHY DISTRICT RITCHIE COUNTY WEST VIRGINIA**

Received

AUG 12 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

81°06' 55.91" (81.115530)

9230'

LATITUDE

39°05' 00"

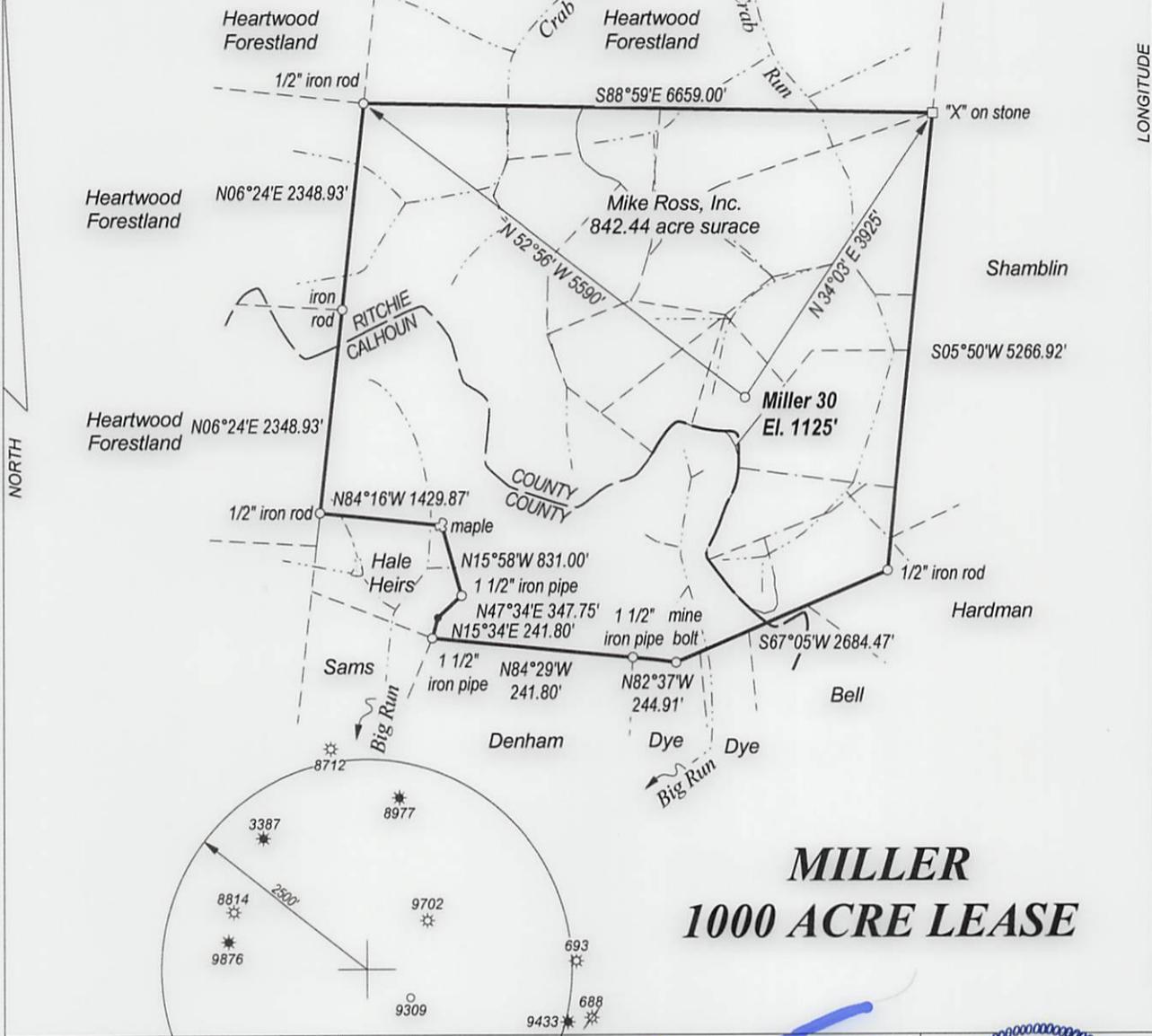
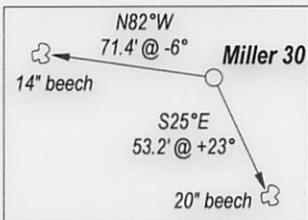
UTM NAD 83  
N: 4321610  
E: 490002

81°05' 00"

LONGITUDE

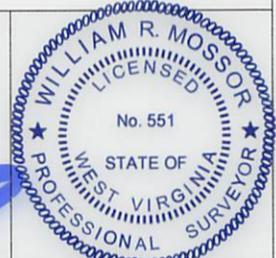
14440'

39°02' 36.58" (39.043495)



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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 DEPARTMENT OF ENERGY.  
 (SIGNED) \_\_\_\_\_  
 PROFESSIONAL SURVEYOR: 551



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 DIVISION OF OIL AND GAS

DATE JULY 3RD, 2013  
 OPERATORS WELL NO. MILLER 30

**API 47 - 085 - 10059**  
 STATE COUNTY PERMIT

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

LOATION: ELEVATION 1125' WATER SHED CRAB RUN  
 DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE

SURFACE OWNER MIKE ROSS, INC. ACREAGE 842.44 (lot 6 19.07 acres)  
 OIL & GAS ROYALTY BLAINE M. MILLER LEASE AC. 1000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL   
 FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2300'

WELL OPERATOR BUCKEYE OIL PROD. DESIGNATED AGENT HENRY W. SINNETT  
 ADDRESS P. O. BOX 129 ADDRESS RT. 1, BOX 150A  
WOOSTER, OH 44691 BIG SPRINGS, WV 26136

FORM WW - 6

COUNTY NAME  
PREMIT