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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 07, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1502351, issued to ROUZER OIL CO., 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: HARVEY SAMPLES #3  
Farm Name: SAMPLES, DARRELL A. JR.  
**API Well Number: 47-1502351**  
**Permit Type: Plugging**  
Date Issued: 08/07/2014

**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.

1) Date May 19, 2014  
2) Operator's  
Well No. Harvey Samples No. 3  
3) API Well No. 47-015 - 02351

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 X / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 657 feet Watershed Elk River  
District Union 5 County Clay Quadrangle Elkhurst 334

6) Well Operator Rouzer Oil Company 7) Designated Agent same  
Address P. O. Box 987 Address \_\_\_\_\_  
Spencer, WV 25276

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Ed Gainer Name Shreve Well Service  
Address P. O. Box 821 Address 3473 Triplett Road  
Spencer, WV 25276 Spencer, WV 25276

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

RECEIVED  
Office of Oil and Gas

JUN 13 2014

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

WV Department of  
Environmental Protection

Work order approved by inspector  Date 5/21/14

Rouzer Oil Company  
Spencer, WV

Plugging Procedure for Harvey Samples No. 3

1. Notify WVDEP inspector a minimum of 24 hours in advance of commencing work.
2. Mobilize rig and tankage to well site and rig up.
3. TIH w/ rig tools to verify TD.
4. Attempt to pull 5-3/16" casing string w/ 1.5x string-weight tension.
5. POOH 5-3/16" casing string by frepointing & cutting string, if required.
6. Attempt to pull 6-5/8" casing string w/ 1.5x string-weight tension.
7. POOH 6-5/8" casing string by frepointing & cutting string, if required.
8. TIH w/ 2-3/8" work string to 1,500'.
9. MIRU pump equipment and pump/drop 25 bbl. of 6% gel/water mixture.
10. If casing strings were not frepointed, pull work string up to 1,495' and pump 39 sks. of Class A cement mixture to 1,300' & displace cement in work string w/ 5.8 bbl. of 6% gel/water mixture.
11. If casing strings were frepointed, pump sufficient quantity of Class A cement mixture to place plug 50 ft. above highest frepoint and displace w/ 5.8 bbl. of 6% gel/water mixture.
12. TOOH w/ work string.
13. After 8 hr. curing period, TIH w/ rig tools & tag bottom-hole plug to verify top depth.
14. If top of plug is acceptable, TIH w/ work string & pump sufficient quantity of 6% gel/water mixture to 410'.
15. TIH w/ work string to 400', pump 37 sks. of Class A cement mixture to 310' & displace cement in work string w/ 1.6 bbl. of 6% gel/water mixture.
16. TOOH w/ work string.
17. After 8 hr. curing period, TIH w/ rig tools & tag surface string plug to verify top depth.
18. TIH w/ work string to 300' and place 16.5 bbl. of 6% gel/water mixture.
19. TOOH w/ work string.
20. Attempt to pull 10" conductor string w/ 1.5x string-weight tension.
21. POOH 10" conductor string by frepointing & cutting string, if required.
22. TIH w/ work string to 90' and circulate Class A cement mixture to surface.
23. TOOH w/ work string & fill hole to surface with Class A cement mixture.
24. Set monument in accordance with applicable governmental regulations.
25. RDMO equipment and tankage.
26. Reclaim disturbed areas.
27. This work shall provide a minimum of 100-foot cement mixture plugs at all casing points, 50 feet inside and 50 feet outside in the vicinity of freshwater zones. Plugs spacing shall be completely filled with 6% gel/water mixture.

Work order approved by Inspector



RECEIVED  
Office of Oil and Gas  
Date 5/21/14

WV Department of  
Environmental Protection

DEPARTMENT OF ENERGY  
Oil and Gas Division

Farm Harvey Samples  
API No. 47 - 015 - 02351 P

1502351P

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production xx / Underground Storage     / Deep     / Shallow xx /)

LOCATION: Elevation: 600' Watershed Upper Birch Run  
District: Union County Clay Quadrangle Elkhurst

COMPANY Petroleum Development Corp.

ADDRESS P.O. Box 26 Bridgeport, WV 26330

DESIGNATED AGENT Steven R. Williams

ADDRESS same

SURFACE OWNER Harvey Samples Et. Al.

ADDRESS 1917 Bona Vista Charleston, WV

MINERAL RIGHTS OWNER same

ADDRESS    

OIL AND GAS INSPECTOR FOR THIS WORK Carlos Hivley  
ADDRESS Elkview, WV

PERMIT ISSUED    

DRILLING COMMENCED 4/1/76

DRILLING COMPLETED 1/2/76

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON    

| Casing & Tubing  | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------|------------------|--------------|------------------------|
| Size 20-16 Cond. |                  |              |                        |
| 13-10"           | 47               | 47           | 47                     |
| 9 5/8            |                  |              |                        |
| 8 5/8            | 1356             |              |                        |
| 7                | 1356             | 1356         |                        |
| 5 1/2            | 1373             | 1373         | 9585                   |
| 4 1/2            |                  |              |                        |
| 3                |                  |              |                        |
| 2                |                  |              |                        |
| Liners used      |                  |              |                        |

GEOLOGICAL TARGET FORMATION Big Injun Depth 1600 feet

Depth of completed well 1479 feet Rotary     / Cable Tools    

Water strata depth: Fresh 112 feet; Salt 112 feet

Coal seam depths:     Is coal being mined in the area?    

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 110-72 feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d

Final open flow     Mcf/d Final open flow 3 Bbl/d

Time of open flow between initial and final tests     hours

Static rock pressure     psig (surface measurement) after     hours shut in

(If applicable due to multiple completion--)

Second producing formation     Pay zone depth     feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d

RECORD  
HARVEY SAMPLES # 3

LOCATION: NORTH SIDE BLK RIVER, UNION DISTRICT, CLAY COUNTY,  
WEST VIRGINIA, JUST BELOW HARNE.

COMMENCED SPUDDING JUNE 1ST, 1916  
COMPLETED JULY 5TH, 1916. SHOT JULY 6TH, 1916 WITH 60 QTS,  
12' SHELL, 7 1/2' ANCHOR. ELEVATION  
CASING RECORD: 10" 47 FEET, 8 1/2" --355', 6 5/8" 1356'

FORMATION

| SOIL           | 0        | 48 FEET                  |
|----------------|----------|--------------------------|
| GRAVEL         | 43       | 47                       |
| SAND           | 47       | 108                      |
| COAL           | 108      | 111                      |
| SAND           | 111      | 151                      |
| SLATE & SHELLS | 151      | 302                      |
| SAND           | 302      | 355                      |
| SLATE          | 355      | 358                      |
| SAND, BLACK    | 358      | 388                      |
| SLATE          | 388      | 490                      |
| LIME           | 490      | 530                      |
| SLATE & SHELLS | 530      | 560                      |
| GAS SAND       | 560      | 700                      |
| SLATE          | 700      | 735                      |
| SALT SAND      | 735      | 1070 SLATE BREAK 960-995 |
| CAVE           | 1070     | 1077                     |
| SAND, BOTTOM   |          |                          |
| STREAM, SALT   | 1077     | 1120                     |
| SLATE          | 1120     | 1127                     |
| SAND           | 1127     | 1150                     |
| RED ROCK       | 1150     | 1239                     |
| MARTON SAND    | 1239     | 1296                     |
| LITTLE LIME    | 1296     | 1328                     |
| SLATE          | 1328     | 1336                     |
| SHELLS         | 1336     | 1341                     |
| GENCIL         | 1341     | 1356                     |
| BIG LIME       | 1356 106 | 1451                     |
| KEENER SAND    | 1451     | 1478                     |
| BIG INJUN )    | 1478     | 1529 1/2 BOTTOM HOLE     |

OIL PAY 1510-1522, WHITE SAND 1510-1513, GRAY SAND 1513-1522  
BLUE SAND 1522-1529 1/2 NOTE: PACKER RUN ON BOTTOM 6 5/8 CASI  
SET THREE FEET IN LIME.

SEPTEMBER 1931 RUN 1573 FEET OF 5 3/16 CASING. Office of Oil and Gas H.  
FRACTURED SEPTEMBER 25, 1939: 5 1/2" CASING SET IN BIG INJUN A  
1465. CEMENTED IN WITH 9 BAGS CEMENT, 10 BAGS ZEOGEL, 20  
BAGS ZEOGEL PUMPED BEHIND CASING. RIGHT AND LEFT JOINT UP  
THE HOLE 220' AT 1265. 5 1/2" CASING WAS PAINTED TWO COATS WIT  
LIT CHEMICAL TARSET. BREAKDOWN AT 2800 - 500 BARRELS OF  
WATER, 55,000 POUNDS OF SAND, 500 GALLON OF HUD ACID, 1500  
POUNDS OF SALT.  
O. E. H AND G. S. D.

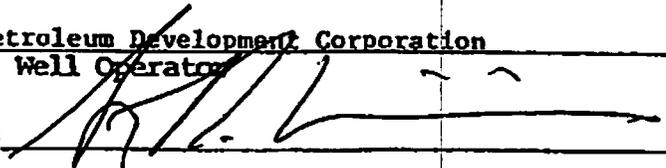
Office of Oil and Gas H.  
JUN 13 2017  
WV Department of  
Environmental Protection

WELL LOG

| FORMATION                 | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS   |
|---------------------------|-------|--------------|----------|-------------|---|
|                           |       |              |          |             | Including indication of all fresh and salt water, coal, oil and gas |
| Sand, Shale, and red rock |       |              | 1239     | 1239        |   |
| Maxton Sand               |       |              | 1239     | 1296        |   |
| sand, shale               |       |              | —        | —           |   |
| Little lime               |       |              | 1196     | 1318        |   |
| Sand shale                |       |              | 1328     | 1396        |   |
| Big Lime                  |       |              | 1396     | 1451        |   |
| Sand, Shale               |       |              | —        | —           |   |
| Keener                    |       |              | 1451     | 1478        |   |
| Big Injun                 |       |              | 1478     | 1529        |   |
| Shale                     |       |              | —        | —           |   |
| T.D.                      |       |              | 1529     |             |   |

(Attach separate sheets as necessary)

Petroleum Development Corporation  
Well Operator

By: 

Date: 10/3/86

WW-4A  
Revised 6-07

1) Date: May 18, 2014  
2) Operator's Well Number  
Harvey Samples No. 3

3) API Well No.: 47 - 015 - 02351

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

CK 2543  
10000

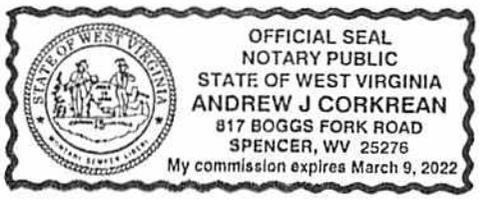
|   |                                    |
|---|------------------------------------|
| 4) Surface Owner(s) to be served:         | 5) (a) Coal Operator               |
| (a) Name <u>Darrell A. Samples, Jr. W</u> | Name <u>None</u>                   |
| Address <u>1476 Elk River Road</u>        | Address _____                      |
| <u>Procious, WV 25164</u>                 | _____                              |
| (b) Name _____                            | (b) Coal Owner(s) with Declaration |
| Address _____                             | Name _____                         |
| _____                                     | Address _____                      |
| (c) Name _____                            | Name _____                         |
| Address _____                             | Address _____                      |
| _____                                     | _____                              |
| 6) Inspector <u>Ed Gainer</u>             | (c) Coal Lessee with Declaration   |
| Address <u>P. O. Box 821</u>              | Name _____                         |
| <u>Spencer, WV 25276</u>                  | Address _____                      |
| Telephone <u>304-389-7582</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 Rouzer Oil Company  
 By: [Signature]  
 Its: President  
 Address P.O. Box 614  
Spencer, WV 25276  
 Telephone 304-927-4574

RECEIVED  
Office of Oil and Gas  
JUN 13 2014

Subscribed and sworn before me this 29<sup>th</sup> day of MAY, 2014  
[Signature] Notary Public

My Commission Expires \_\_\_\_\_  
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).

WV Department of Environmental Protection



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 Rouzer Oil Company OP Code 43250

Watershed Elk River Quadrangle Elkhurst

Elevation 657 feet County Clay District Union

Description of anticipated Pit Waste: None, steel tankage will be used to contain waste fluid

Will a synthetic liner be used in the pit? N/A

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 land apply at Bell No. 2 well location)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- N/A
- 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 [Signature]

Company Official (Typed Name) J. B. Hildreth

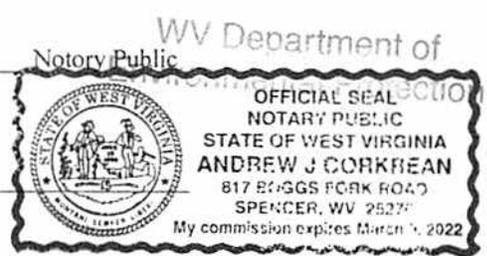
Company Official Title President

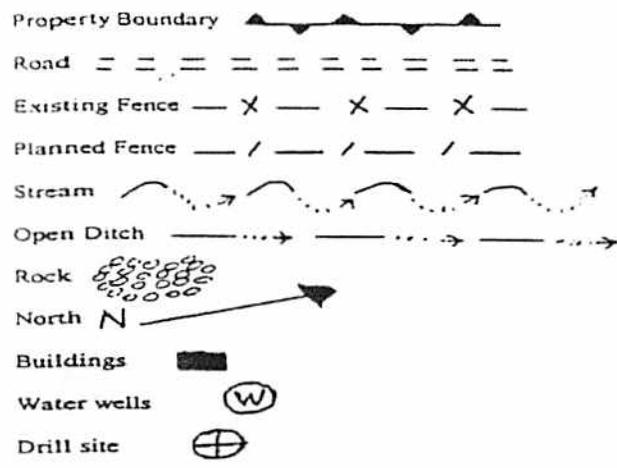
RECEIVED  
Office of Oil and Gas

Subscribed and sworn before me this 29<sup>th</sup> day of MAY, 20 14 JUN 13 2014

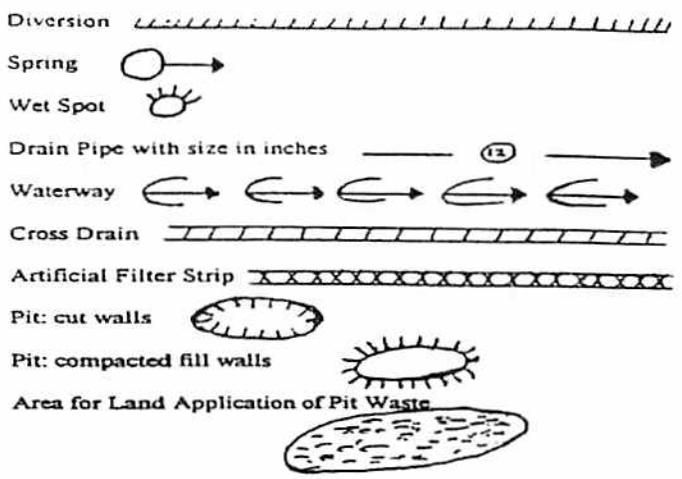
[Signature]

My commission expires \_\_\_\_\_





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.05 Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch 1.5 Tons/acre

Seed Mixtures

| Seed Type           | Area I<br>lbs/acre | Seed Type | Area II<br>lbs/acre |
|---------------------|--------------------|-----------|---------------------|
| <del>lawn mix</del> | <del>30</del>      |           |                     |
| Perennial Rye       | 10                 |           |                     |
| Blue Grass          | 10                 |           |                     |
| Lawn Fescue         | 10                 |           |                     |

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

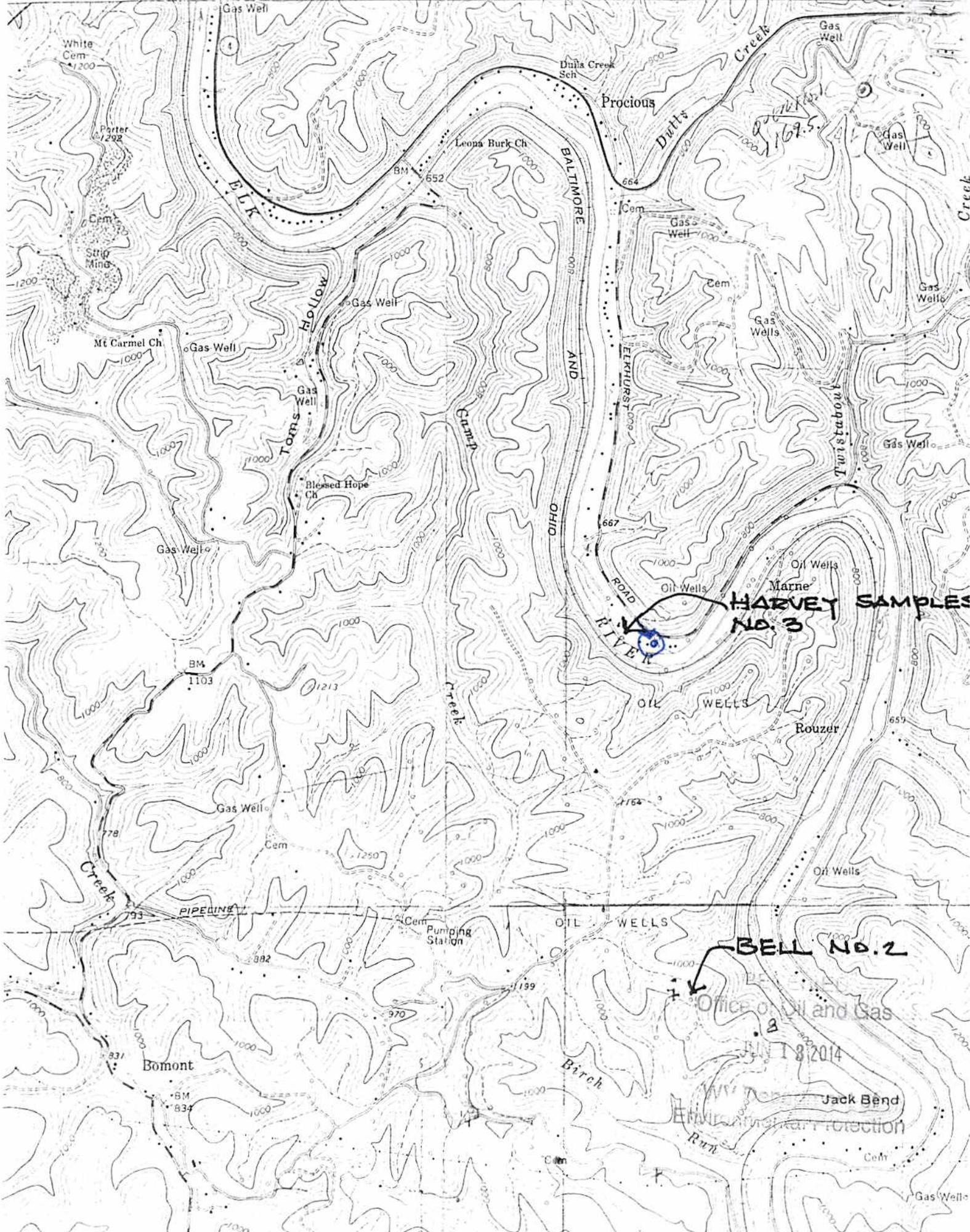
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: \_\_\_\_\_

Title: Inspector Date: 5/21/14

Field Reviewed?  Yes  No



**HARVEY SAMPLES No. 3**

**BELL No. 2**

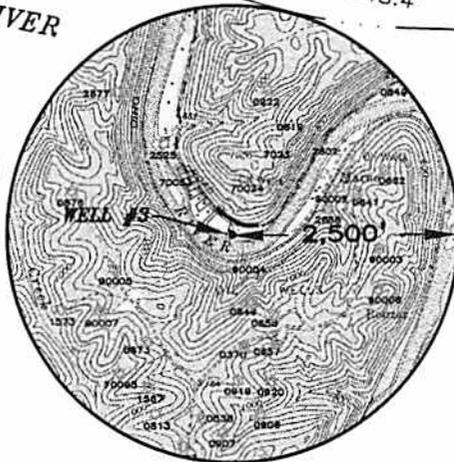
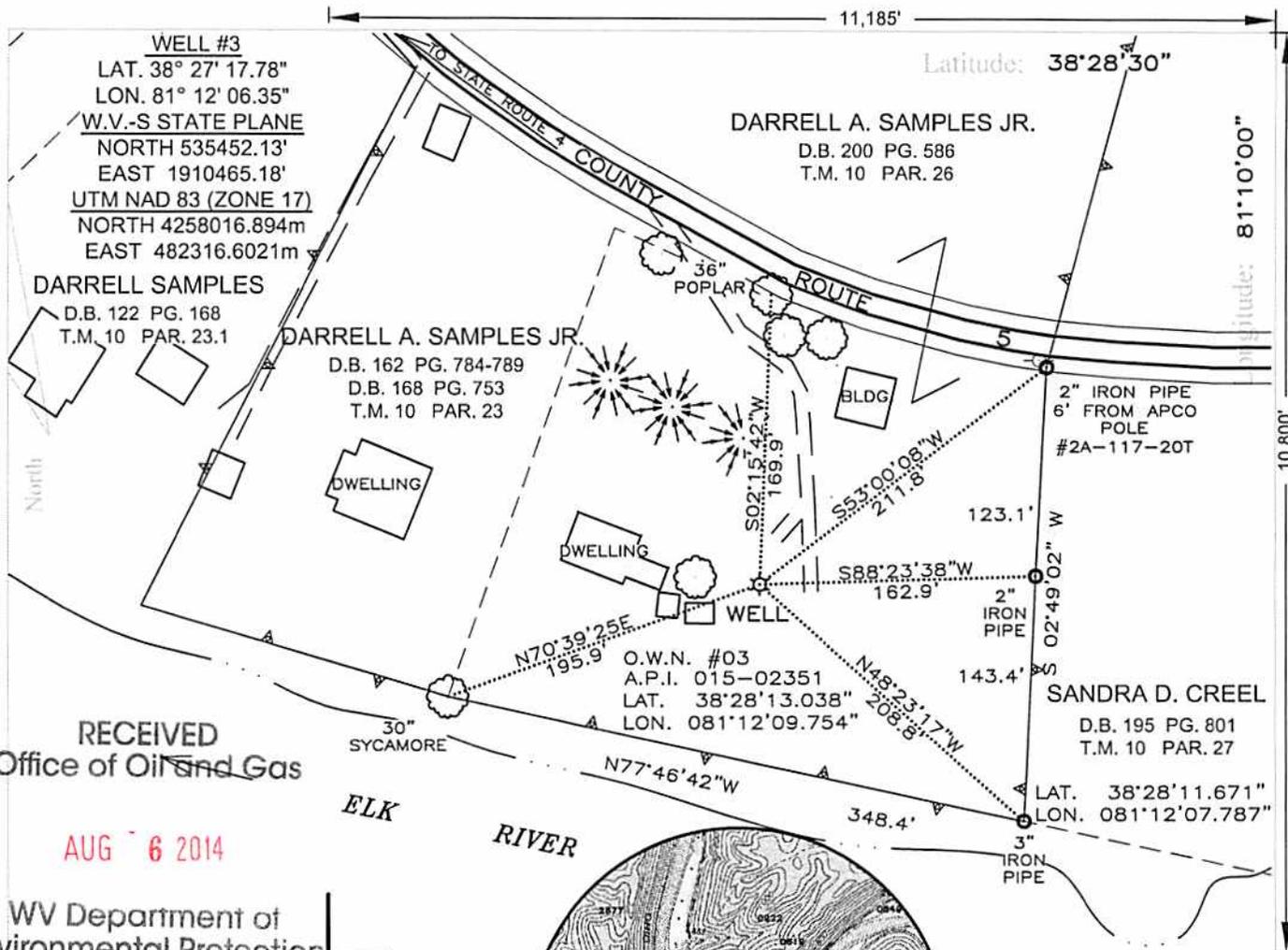
Office of Oil and Gas

JUN 18 2014

Jack Bend

Environmental Protection

Gas Wells



**HARVEY SAMPLES LEASE**

|  |  |                           |
|--|--|---------------------------|
| FILE #:                                | 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 ENVIRONMENTAL PROTECTION. |                           |
| DRAWING #:                             |  |                           |
| SCALE: 1"=100'                         |  |                           |
| MINIMUM DEGREE OF ACCURACY SUB METER   |  |                           |
| PROVEN SOURCE OF ELEVATION: WVDOT CORS | Signed:  | R.P.E.: 7719 L.L.S.: 1115 |
|  |  | 4-28-14                   |

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

DATE: APRIL 15 2014  
 OPERATOR'S WELL # HARVEY SAMPLES #3  
 API WELL #: **47 015 02351**  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: ELK RIVER ELEVATION: 657'  
 COUNTY/DISTRICT: CLAY / UNION QUADRANGLE: ELKHURST

SURFACE OWNER: DARRELL A. SAMPLES JR. ACREAGE: 140 ACRES  
 OIL & GAS ROYALTY OWNER: HARVEY SAMPLES HEIRS ACREAGE: 140 ACRES

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY):

TARGET FORMATION: BIG INJUN ESTIMATED DEPTH: 1530

WELL OPERATOR ROUZER OIL COMPANY DESIGNATED AGENT JAMES HILDRETH  
 Address P.O. BOX 987 Address P.O. BOX 614  
 City SPENCER State W.V. Zip Code 25276 City SPENCER State W.V. Zip Code 25276