

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 530'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION TOPOGRAPHIC

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) James S. Tiller  
 R.P.E. 1886 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE MAY 19, 1992  
 OPERATOR'S WELL NO. MMA  
 API WELL NO. 47-077-0278-P  
 STATE COUNTY PERMIT

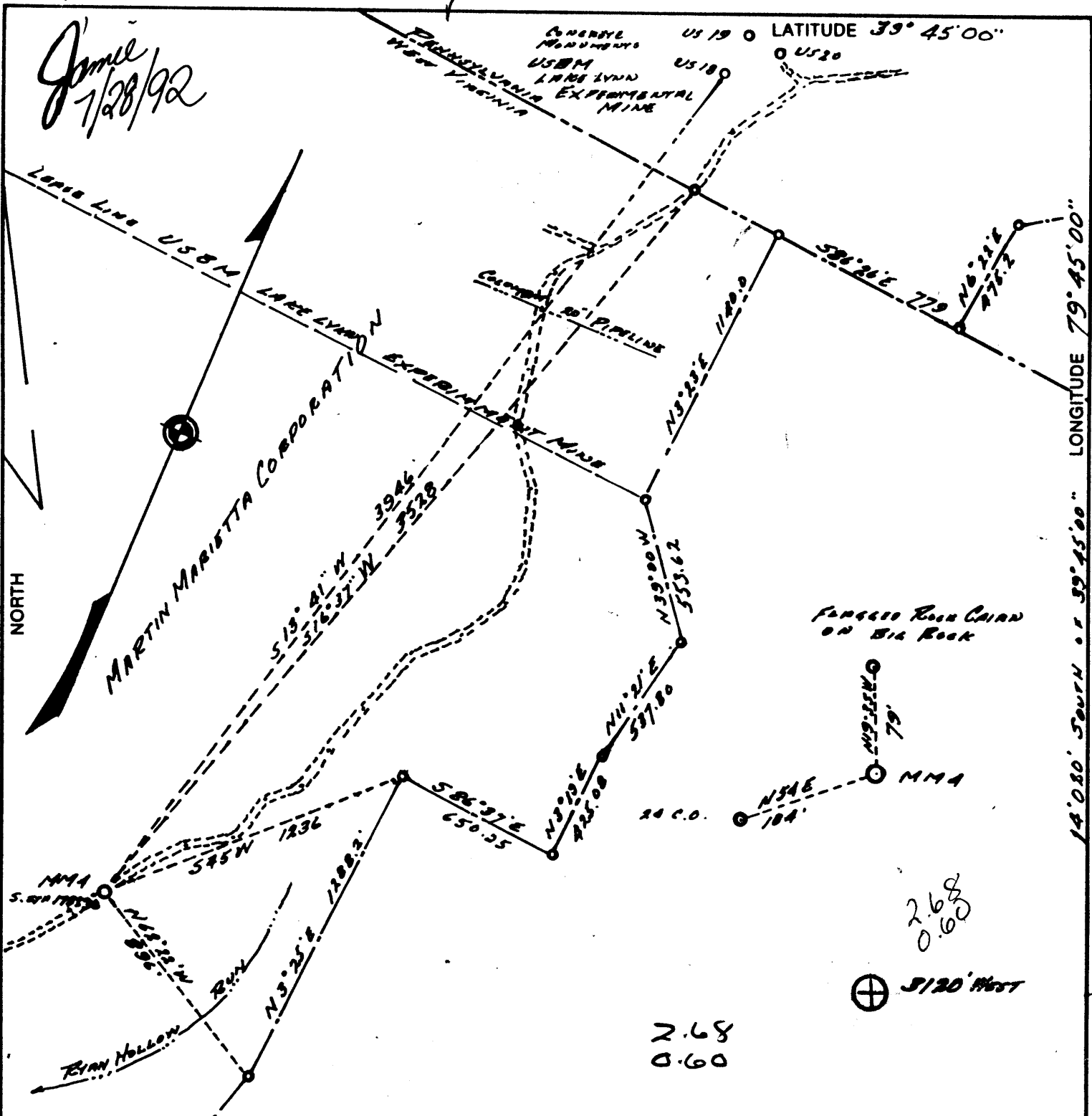
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 2356 WATERSHED RYAN HOLLOW RUN  
 DISTRICT GRANT COUNTY FREESTON  
 QUADRANGLE LAKE LYNN  
 SURFACE OWNER MARTIN MARIETTA CORPORATION ACREAGE 1,339.79  
 OIL & GAS ROYALTY OWNER MARTIN MARIETTA CORP. LEASE ACREAGE "  
R. SANNA LEASE NO. LEA-151  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ 8/10/93  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8000'  
 WELL OPERATOR R.E. FOX & ASSOCIATES DESIGNATED AGENT ROBIN LEE STIVALOTTA  
 ADDRESS 370 LEDNARD AVE., WASHINGTON, PA 15310 ADDRESS P.O. Box 3621 Morgantown, WV 26505-3621

DEEP WELL 5-0 unnamet (cool) attempt offset Mon. 9/32

FORM WW-6 H.T. HALL 48673

COUNTY NAME PERMIT

*Jamil*  
1/28/92



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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 (SIGNED) James S. Telfer  
 R.P.E. 2886 L.L.S. \_\_\_\_\_



PLACE SEAL HERE

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



DATE MAY 29, 1992  
 OPERATOR'S WELL NO. MMA  
 API WELL NO. 47-077-0278  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 2356 WATER SHED RYAN HOLLOW RUN  
 DISTRICT GRANT COUNTY PRESTON

QUADRANGLE LAKE LYNN Mynd NE  
 SURFACE OWNER MARTIN MARIETTA CORPORATION ACREAGE 1.339.79  
 OIL & GAS ROYALTY OWNER MARTIN MARIETTA CORP. LEASE ACREAGE "  
K. SHARPE  
 LEASE NO. 1-FAY-15-1

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
AUG 3 1992

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8000'  
 WELL OPERATOR R.E. Fox & Associates DESIGNATED AGENT ROBIN LEE STIVALOTTA  
 ADDRESS 370 LEONARD RD., WASHINGTON PA 15310 ADDRESS P.O. Box 3621 Morgantown, WV 26505-3621

LATITUDE 39° 45' 00"  
 LONGITUDE 79° 45' 00"  
 14° 08' SOUTH OF 39° 45' 00"

2.68  
0.60

2.68  
0.60

(+) 5120' West

FORM WW-6

COUNTY NAME PERMIT

4104



WR-35

State of West Virginia DEPARTMENT OF ENERGY Oil and Gas Division

Date July 8, 1993 Operator's Well No. 4 Farm Martin Marietta API No. 47 - 77 - 00278

plugged 09/16/93

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 2356 Watershed Ryan Hollow Run District: Grant County Preston Quadrangle Lake Lynn

COMPANY R. E. Fox & Associates, Inc. ADDRESS 370 Leonard Ave., Washington, PA 15301 DESIGNATED AGENT Robin Lee Stivaletta ADDRESS P. O. Box 3621, Morgantown, WV 26505-3621 SURFACE OWNER Martin Marietta Corp. ADDRESS P. O. Box 30013, Raleigh, NC 27622 MINERAL RIGHTS OWNER 1. Martin Marietta Corp. and 2. Kitty Smith et al ADDRESS 1. same as above 2. 57 East Main St., Uniontown, PA 15401 OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracey ADDRESS Rte. 2, Box 37-A, Montrose, WV 26283 PERMIT ISSUED 7/29/92 DRILLING COMMENCED 8/6/92 DRILLING COMPLETED 8/21/92 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2-3/8 and Liners used.

GEOLOGICAL TARGET FORMATION Oriskany Depth 8124 feet Depth of completed well 8299 feet Rotary X / Cable Tools Water strata depth: Fresh 120 feet; Salt Coal seam depths: None Is coal being mined in the area?

OPEN FLOW DATA Producing formation Oriskany Pay zone depth 8150-8226 8124-8299 feet Gas: Initial open flow 55 Mcf/d Oil: Initial open flow 0 Bbl/d After Treatment Final open flow 50 Mcf/d Oil: Final open flow 0 Bbl/d Time of open flow between initial and final tests N/A hours Static rock pressure 3000 psig (surface measurement) after 10 days shut in (If applicable due to multiple completion--)

(Continue on reverse side)

Recvd 9/17/93 from wva

Fracturing Data:

Zones Treated Oriskany 8150 - 8226 (76')  
 Type of Treatment FE Acid, 15,000 gal. acid, 15,000 gal. treated pan.  
 Pump Rate Avg 15 Bpm.  
 Results after treatment 50/mcfd, 10hrs, 3,000 psi.

WELL LOG

| FORMATION          | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS<br>Including indication of all<br>and salt water, coal, oil a |
|--------------------|-------|--------------|----------|-------------|---|
| Topsoil            |       |              | 0        | 10          |   |
| Sand               |       |              | 10       | 20          |   |
| Sand               |       |              | 20       | 110         |   |
| Sand & Shale       |       |              | 110      | 178         | Stream of fresh water<br>at 120'                                      |
| Sand               |       |              | 178      | 196         |   |
| Shale              |       |              | 196      | 259         |   |
| Sand & Shale       |       |              | 259      | 304         |   |
| Sand & Shale       |       |              | 304      | 345         |   |
| Shale              |       |              | 345      | 373         |   |
| Sand & Shale       |       |              | 373      | 707         |   |
| Shale              |       |              | 707      | 725         |   |
| Sand & Shale       |       |              | 725      | 1193        |   |
| Redrock (Catskill) |       |              | 1193     | 1270        |   |
| Sand & Shale       |       |              | 1270     | 1343        |   |
| Redrock            |       |              | 1343     | 1466        |   |
| Sand & Shale       |       |              | 1466     | 1753        |   |
| Shale & Redrock    |       |              | 1753     | 1780        |   |
| Sand & Shale       |       |              | 1780     | 1920        |   |
| Redrock & Shale    |       |              | 1920     | 2143        |   |
| Sand & Shale       |       |              | 2143     | 2275        |   |
| Shale              |       |              | 2275     | 2403        |   |
| Sand & Shale       |       |              | 2403     | 5102        |   |
| Sand & Shale       |       |              | 5102     | 6923        |   |
| Limestone (Tully)  |       |              | 6923     | 7003        |   |
| Shale              |       |              | 7003     | 7006        |   |
| Shale (Marcellus)  |       |              | 7600     | 7796        |   |
| Shale (Onondaga)   |       |              | 7796     | 7816        |   |
| Chert              |       |              | 7816     | 8124        |   |
| Oriskany           |       |              | 8124     | 8299        | Natural gas show 55/mcfd<br>at TD                                     |
| T.D.               |       |              | 8299     |             |   |

(Attach separate sheets as necessary)

R. E. Fox & Associates, Inc.

Well Operator

By:

R. E. Fox, President

Date:

November 1, 1992

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic  
 detailed geological record of all formations, including  
 all, encountered in the drilling of a well."

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION**

Page 3 of 4  
Issued 7/29/92  
Expires 7/29/94

- 1) Well Operator: R. E. Fox & Associates, Inc. 18055 (1) 425
- 2) Operator's Well Number: #4 Martin Marietta 3) Elevation: 2356
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Oriskany
- 6) Proposed Total Depth: 8,000 feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill & Stimulate New Well

**RECEIVED**  
Office of Oil & Gas  
Permitting  
  
0592  
  
WV Division of  
Environmental Protection

**CASING AND TUBING PROGRAM**

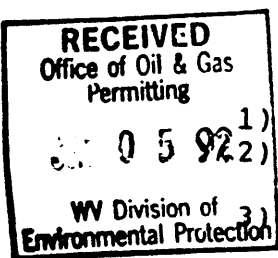
| TYPE         | SPECIFICATIONS |       |                | FOOTAGE INTERVALS |              |                               |
|--------------|----------------|-------|----------------|-------------------|--------------|-------------------------------|
|              | Size           | Grade | Weight per ft. | For drilling      | Left in well | Fill-up (cu. ft.)             |
| Conductor    | 16"            | H-40  | 65#            | 20'               | 20'          | Sanded In                     |
| Fresh Water  | 11-3/4"        | H-40  | 42#            | 120'              | 120'         | To Surface<br>120 cu. ft.     |
| Coal         |                |       |                |                   |              | 385918 11.3<br>385918 11.2, 2 |
| Intermediate | 8-5/8"         | ERW   | 23#            | 1400'             | 1400'        | To Surface<br>250 cu. ft.     |
| Production   | 4-1/2"         | M-75  | 11.6#          | 8000' or          | 8000' or     | 200 cu. ft.                   |
| Tubing       | 2-3/8"         | J-55  | 4.7#           | TD<br>7950'       | TD<br>7950'  | None                          |
| Liners       |                |       |                |                   |              |                               |

Note: If fresh water is not encountered 11-3/4" will not be run.

**PACKERS** : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

23 For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blank Letter Agent  
 (Type)



Date: May 21, 1992  
Operator's well number 4  
API Well No: 47 - 077 - 0278  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Martin Marietta Corporation
  - Address Martin Marietta Aggregates Div
  - P.O. Box 30013, Raleigh, NC 27622
  - (b) Name \_\_\_\_\_
  - Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_
  - Address \_\_\_\_\_
- 5) (a) Coal Operator:
- Name \_\_\_\_\_
  - Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration
  - Name Martin Marietta Corporation
  - Address Martin Marietta Aggregates Div.
  - P. O. Box 30013, Raleigh, NC 27622
  - Name \_\_\_\_\_
  - Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration
  - Name \_\_\_\_\_
  - Address \_\_\_\_\_
- 6) Inspector Phillip Tracy
- Address Rte. 2, Box 37-A
  - Montrose, WV 26283
  - Telephone (304)- 636-8798

TO THE PERSON(S) 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 XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:

- K   Personal Service (Affidavit attached)
- ~~XX~~ Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

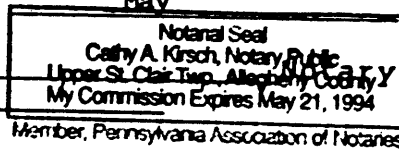
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and 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 R. E. Fox & Associates, Inc.  
By: [Signature]  
Its: President  
Address 370 Leonard Ave.  
Washington, PA 15301  
Telephone (412) 222-7620

Subscribed and sworn before me this 21st day of May 1992

My commission expires [Signature]



Public

Member, Pennsylvania Association of Notaries

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: MARTIN MARIETTA CORP Operator Well No.:4

LOCATION: Elevation: 2,356.00 Quadrangle: LAKE LYNN  
District: GRANT County: PRESTON  
Latitude: 14020 Feet South of 39 Deg. 45 Min. Sec.  
Longitude 3120 Feet West of 79 Deg. 45 Min. Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company: R. E. Fox & Associates  
370 Leonard Ave.  
Washington, PA 15310

Coal Operator Martin Marietta Corp.  
or Owner P. O. Box 30013  
Raleigh, NC 27622-0013

Agent: Robin Stivaletta

Coal Operator  
or Owner **RECEIVED**  
WV Division of  
Environmental Protection

Permit Issued: 08/11/93

AFFIDAVIT

OCT 25 93

Permitting  
Office of Oil & Gas

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_

ss:

A. B. Grindle and Lyle Smith being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Phillip Tracy Oil and Gas Inspector representing the Director, say that said work was commenced on the 14th day of September, 1993, and that the well was plugged and filled in the following manner:

| TYPE             | FROM | TO      | PIPE REMOVED | LEFT  |
|------------------|------|---------|--------------|-------|
| Bentonite Gel    | 8234 | 8112    |              |       |
| Class A Portland | 8112 | 8012    |              |       |
| Bentonite Gel    | 8012 | 7400    |              |       |
| Cast Iron Plug   | 7400 | 7399    | 4 1/2 7198'  | 1051' |
| Bentonite Gel    | 7399 | 7198    |              |       |
| Class A Portland | 7198 | 7098    |              |       |
| Bentonite Gel    | 7098 | 1407    |              |       |
| Class A Portland | 1407 | 1307    | 8 5/8        | 1297' |
| Bentonite Gel    | 1307 | Surface |              |       |

Description of monument: 2" vent fixed with tee and placard.

and that the work of plugging and filling said well was completed on the 16th day of SEPTEMBER, 1993.

And further deponents saith not.

*R E Fox*  
Richard E. Fox, PRESIDENT

Sworn and subscribe before me this 12th day of OCTOBER, 1993  
My commission expires: \_\_\_\_\_

*Cathy A. Kirsch*  
Notary Public

Notarial Seal  
Cathy A. Kirsch, Notary Public  
Upper St. Clair Twp., Allegheny County  
My Commission Expires May 21, 1994  
Member, Pennsylvania Association of Notaries

Oil and Gas Inspector: \_\_\_\_\_