

Note: All Known Water Supply Sources Located Within 1000' of Subject Well Are Shown
 (H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

| CALL TABLE | | |
|------------|-------------|---------|
| A. | S 44° 27' W | 384.4' |
| B. | S 28° 27' W | 231.9' |
| C. | S 43° 57' W | 583.2' |
| D. | S 40° 33' E | 148.5' |
| E. | S 44° 33' E | 74.3' |
| F. | S 18° 33' E | 495.0' |
| G. | S 18° 57' E | 208.6' |
| H. | N 56° 18' W | 1544.4' |

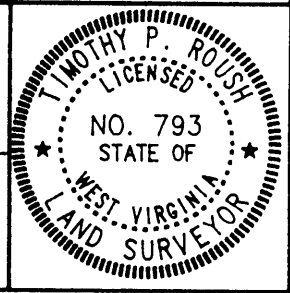
Unit Line & Property Line

| WELL TESTS | |
|------------|------------------|
| ① | S3° 15' W 3086' |
| ② | S13° 18' W 4059' |

FILE NO. 1280
 MAP NO. N47 N 1 S E W 4
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION F.R. Ball No. 9
(47-095-0548) = 1152'

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 MINES.

(SIGNED) Timothy P. Roush
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE August 1, 19 94
 FARM F.R. Ball NO. 2
 API WELL NO. 47-095-0547-S

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 846.33' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

SURFACE OWNER Ralph & Betty Hayes ACREAGE 171.5 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 228.75 Ac.
 LEASE NO. 15459-50

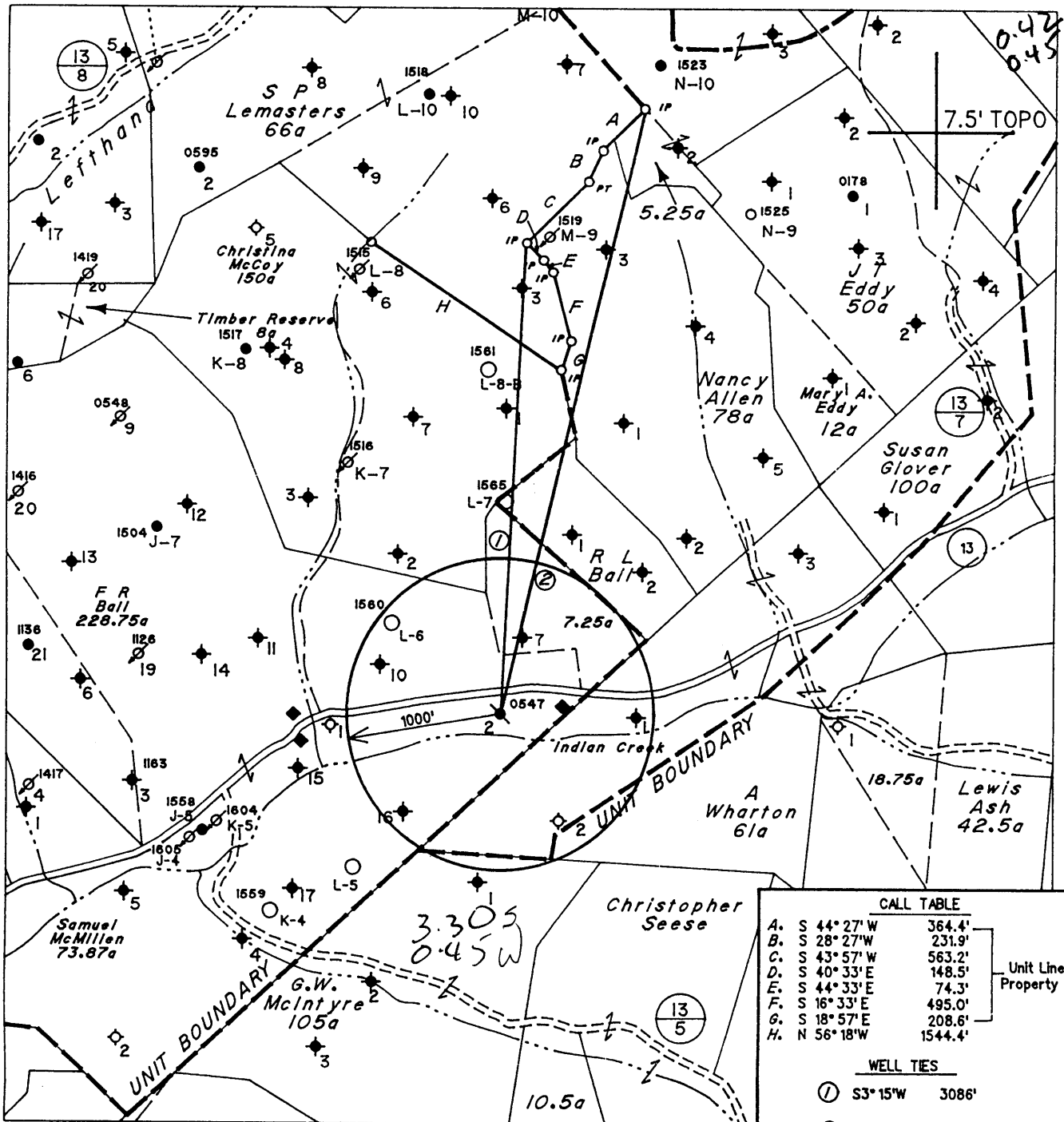
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Side-track Well

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 3,800'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

AUG 9 1995

FORM IV-6

TYLER 0547-S



Note: All Known Water Supply Sources Located Within 1000' Of Subject Well Are Shown

◆ Denotes a Water Supply Source

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

| CALL TABLE | | |
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| A. | S 44° 27' W | 364.4' |
| B. | S 28° 27' W | 231.9' |
| C. | S 43° 57' W | 563.2' |
| D. | S 40° 33' E | 148.5' |
| E. | S 44° 33' E | 74.3' |
| F. | S 16° 33' E | 495.0' |
| G. | S 18° 57' E | 208.6' |
| H. | N 56° 18' W | 1544.4' |

Unit Line & Property Line

| WELL TIES | | |
|-----------|------------|-------|
| ① | S3° 15' W | 3086' |
| ② | S13° 16' W | 4059' |

FILE NO. 1280

MAP NO. N47 N 1 S E W 4

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 in 200

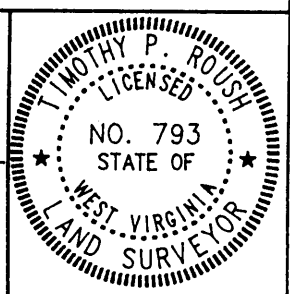
PROVEN SOURCE OF ELEVATION F.R. Ball No. 9

(47-095-0548) = 1152'

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(SIGNED) Timothy P. Roush

TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
DIVISION OF ENERGY
OIL AND GAS SECTION



DATE August 1, 19 94

FARM F.R. Ball NO. 2

API WELL NO. 47-095-0547-S

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

LOCATION: ELEVATION 846.33' WATERSHED Indian Creek

DISTRICT McElroy COUNTY Tyler

QUADRANGLE Centerpoint d 15 NW

SURFACE OWNER Ralph & Betty Hayes ACREAGE 171.5 Ac.

OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 228.75 Ac.

LEASE NO. 15459-50

PROPOSED WORK: DRILL ___ CONVERT X DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Side-track Well

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Gordon ESTIMATED DEPTH 3,800'

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews

ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519

Vienna, W.Va. 26105 ADDRESS Vienna, W.Va. 26105

SEP 20 1994

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

NOV 06 1995

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HAYES, RALPH & BETTY Operator Well No.: F.R. BALL #2

LOCATION: Elevation: 846.33 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2200 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 2350 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 09/09/94
Well work Commenced: 07/10/95
Well work Completed: 07/19/95
Verbal Plugging
Permission granted on: 07/19/95
Rotary Cable _____ Rig
Total Depth (feet) 2732
Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NA

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 5-3/16" | 2086' | 2086' | |
| | | | |
| | | | |
| | | | |
| | | | |

*Casing parted & sidetrack operation was aborted. Plugged well with inspector's approval.
OPEN FLOW DATA

Producing formation NA Pay zone depth (ft) NA
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY

By: *[Signature]*
Date: 11/2/95

NOV 13 1995

20021

F. R. BALL NO. 2 WELL.

No. 13 O.F.-Wetzel.

103 Tons?

Green District, Wetzel County, W. Va.
By South Penn Oil Co.
On Piney Fork, near *Lead* *head?*
Completed in 1897.

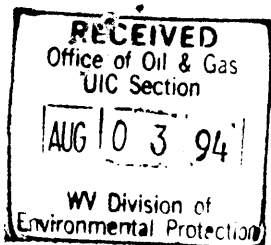
7/25/3
Tyler 095-
NOW: 547

7
1

| | Top. | Bottom. | |
|--|------|---------|-----------------------|
| Pittsburgh Coal | 650 | | <i>platiniferous</i> |
| Big Injun Sand (oil, 2050') | 1960 | 2110 | <i>comp</i> |
| Stray Sand | 2690 | 2706 | <i>07/05/1897</i> |
| Gordon Sand (oil, 2712'; 2nd oil, 2720') | 2706 | | <i>095, 845</i> |
| Total depth | | 2732 | <i>Pnz1-</i> |
| | | | <i>lea 10/26/1998</i> |

10/91

19700



- 1) Date: August 1, 1994
- 2) Operator's Well No. F. R. BALL NO. 2
- 3) SIC Code _____
- 4) API Well NO. 47 State 095 County 0547 Permit LI
- 5) UIC Permit No. _____

Issued 09/01/94

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

Expires 09/09/96

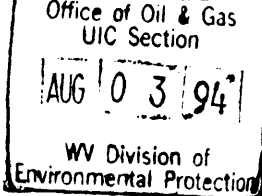
- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 846.33 Watershed: Indian Creek
District: McElroy County: Tyler Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Co. 37450
Address P. O. Box 5519
Vienna, WV 26105
- 9) DESIGNATED AGENT James A. Crews
Address P. O. Box 5519
Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
- 11) DRILLING CONTRACTOR:
Name _____
Address _____
- 12) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____
Plug off old formation _____ / Perforate new formation _____ / Convert /
Other physical change in well (specify) Sidetrack well approx. 30' in Southerly direct
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth _____ feet (top) to _____ feet (bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2800 ft.
- 15) Approximate water strata depths; Fresh, N/A feet; salt, N/A feet.
- 16) Approximate coal seam depths: 650'
- 17) Is coal being mined in the area? Yes _____ / No /
- 18) Virgin reservoir pressure in target formation 1260 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2332
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil
- 22) FILTERS (IF ANY): Cartridge filters and/or coal bed filters recovery.
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS |
|-----------------------|--------------------------|-------------|----------------|----------|------|-------------------|--------------|--------------------------------------|---|
| | Size | Grade | Weight per ft. | New | Used | For drilling | Left in well | | |
| Conductor | | | | | | | | | Kinds |
| Fresh water | See original well record | | | | | | | | |
| Coal | | | | | | | | | Sizes |
| Intermediate | | | | | | | | | |
| Production | <u>3 1/2"</u> | <u>J-55</u> | <u>9.2</u> | <u>x</u> | | <u>2800'</u> | <u>2800'</u> | <u>30 sks.</u> | Depths set |
| Tubing | <u>1 1/2"</u> | | | | | <u>2350'</u> | <u>2350'</u> | | <u>2350</u> |
| Liners | | | | | | | | | Perforations: Top _____ Bottom _____ |

- 25) APPLICANT'S OPERATING RIGHTS were acquired from F. R. Ball
by deed _____ / lease / other contract _____ / dated September 11, 1995, of record in the
Tyler County Clerk's office in Lease Book 27 at page 309

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



- 1) Date August 1, 1994
- Operator's _____
- 2) Well No. F. R. BALL NO. 2
- 3) SIC Code _____
- 4) API Well No. 47 - 095 - 0547-L

State County Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- | | |
|--|--|
| <p>6) SURFACE OWNER(S) OF RECORD TO BE SERVED</p> <p>(i) Name <u>Ralph & Betty Hayes</u> Address <u>HC 62, Box 43-A</u> <u>Jacksonburg, WV 26377</u></p> <p>(ii) Name <u>Jack Glover</u> Address <u>320 North First Street</u> <u>Paden City, WV 26159</u></p> <p>(iii) Name _____ Address _____</p> | <p>7 (i) COAL OPERATOR <u>N/A</u> Address _____</p> <p>7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD: Name _____ Address _____</p> <p>7 (iii) COAL LESSEE WITH DECLARATION ON RECORD: Name _____ Address _____</p> |
|--|--|

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____, 19____.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan 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 Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

PENNZOIL PRODUCTS COMPANY

Well Operator

By Timothy P. Roush Timothy P. Roush

Its Supervisor, Surveying/Mapping

Telephone (304) 422-6565

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-095-0547-LI

September 9th. 94
19

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires 9-9-96 unless well work is commenced prior to that date and prosecuted with due diligence.

| | | | | |
|---------|----------|-------|---------|--------------------|
| Bond: ✓ | Agent: ✓ | Plat: | Casing: | Fee: CL # 26382 |
|---------|----------|-------|---------|--------------------|

CHIEF, OFFICE OF OIL AND GAS

NOTE: Keep one copy of this permit posted at the drilling location.

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

| | <u>Date</u> | <u>Follow-up inspection(s)</u> | <u>Date(s)</u> |
|--------------------------|-------------|--------------------------------|----------------|
| Application received | | | |
| Well work started | | " " | |
| Total depth reached | | " " | |
| Well Record received | | " " | |
| Reclamation completed | | " " | |
| OTHER INSPECTIONS | | | |
| Reason: | _____ | | |
| Reason: | _____ | | |

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: HAYES, RALPH & BETTY Operator Well No.: F.R. BALL #2

LOCATION: Elevation: 846.33 Quadrangle: CENTER POINT
District: MCELROY County: TYLER
Latitude: 2200 Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 2350 Feet West of 80 Deg. 40 Min. 0 Sec.

Well Type: OIL _____ GAS _____ Liquid Injection X

Company: Pennzoil Products Company Coal Operator _____
P. O. Box 5519 or Owner _____
Vienna, WV 26105-5519

Agent: Phil Ondrusek Coal Operator _____
or Owner _____

Permit Issued: 08/02/95

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Wood ss:

DeWayne A. Allen and Mike Underwood 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 Mike Underwood Oil and Gas Inspector representing the Director, say that said work was commenced on the 10th day of August, 1995, and that the well was plugged and filled in the following manner:

| TYPE | FROM | TO | PIPE REMOVED | LEFT |
|-----------------|-------|---------|-------------------|-------|
| 200 sks. cement | 2728' | 2100' | 5-3/16" csg. 380' | 1706' |
| 20 sks. cement | 1070' | 970' | 4x4 1/2" liner 0' | 383' |
| 20 sks. cement | 700' | 600' | | |
| 40 sks. cement | 200' | 100' | | |
| 70 sks. cement | 50' | Surface | | |
| | | | | |
| | | | | |

9/5/95

Description of monument: 7" casing - 30" Above ground level
and that the work of plugging and filling said well was completed on the 15th day of August, 1995.

And further deponents saith not.

Sworn and subscribe before me this 22nd day of August, 1995
My commission expires: June 10, 1997

DeWayne A. Allen
Mike Underwood
Notary Public

Oil and Gas Inspector: _____