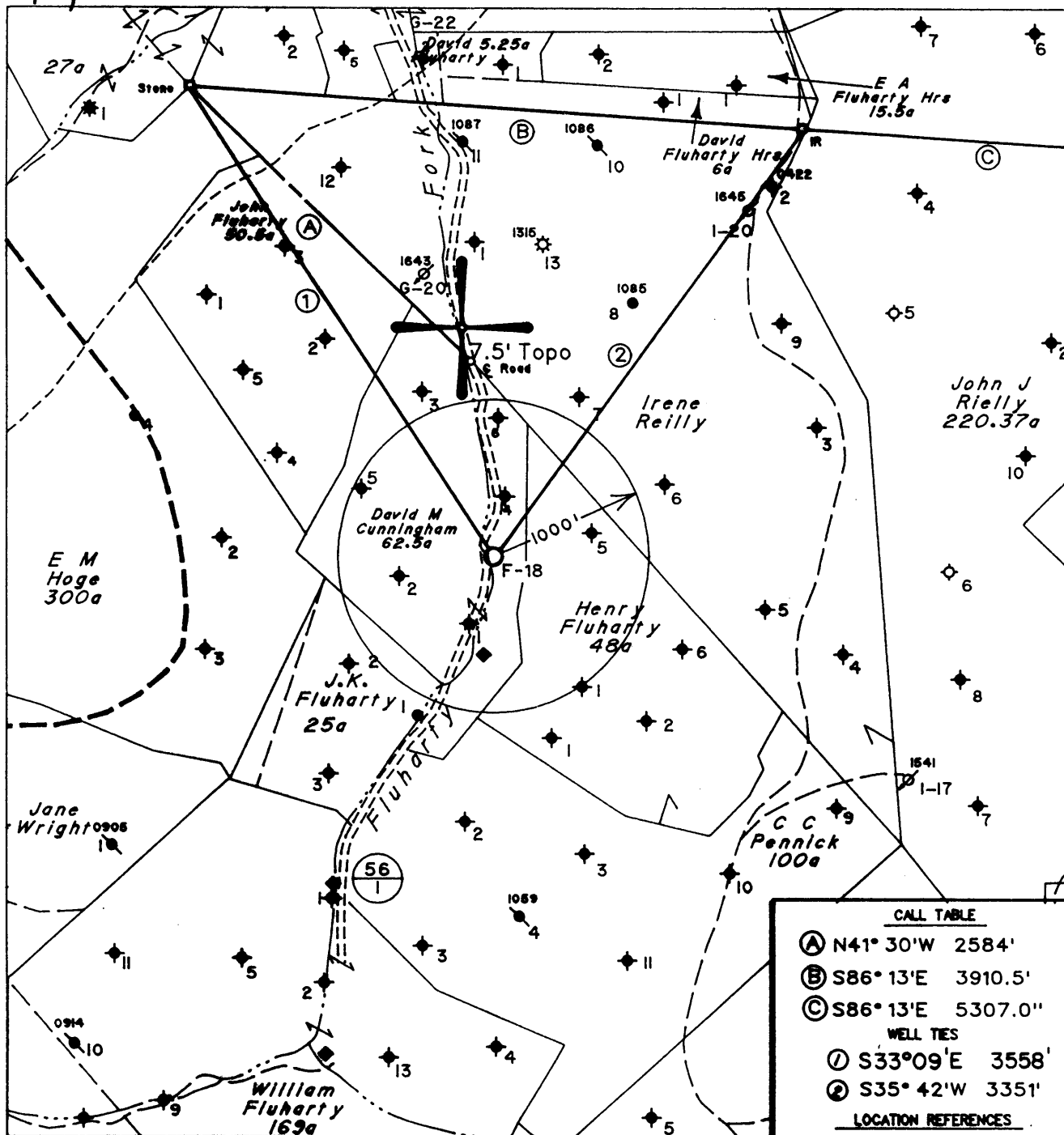


GS 4/10/95

8,600'

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



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

◆ Denotes a Water Supply Source

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

CALL TABLE

- Ⓐ N41° 30'W 2584'
- Ⓑ S86° 13'E 3910.5'
- Ⓒ S86° 13'E 5307.0'

WELL TIES

- ① S33°09'E 3558'
- ② S35° 42'W 3351'

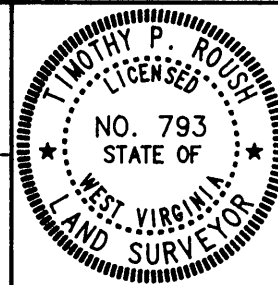
LOCATION REFERENCES

- N57° 15'E 88' 3" Hornbeam
- N21° 13'E 132' 8" Chestnut Oak
- S2° 53'W 187' 20" Hickory

FILE NO. 1055
 MAP NO. N57 N 3 S E W 5
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM - 902

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 March 23, 19 95
 FARM David M. Cunningham NO. F-18
 API WELL NO. 47-103-1674-S

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 915' WATERSHED Fluharty Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint

SURFACE OWNER Richard Heimbrod ACREAGE 64 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 64 Ac.
 LEASE NO. 47271-00

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

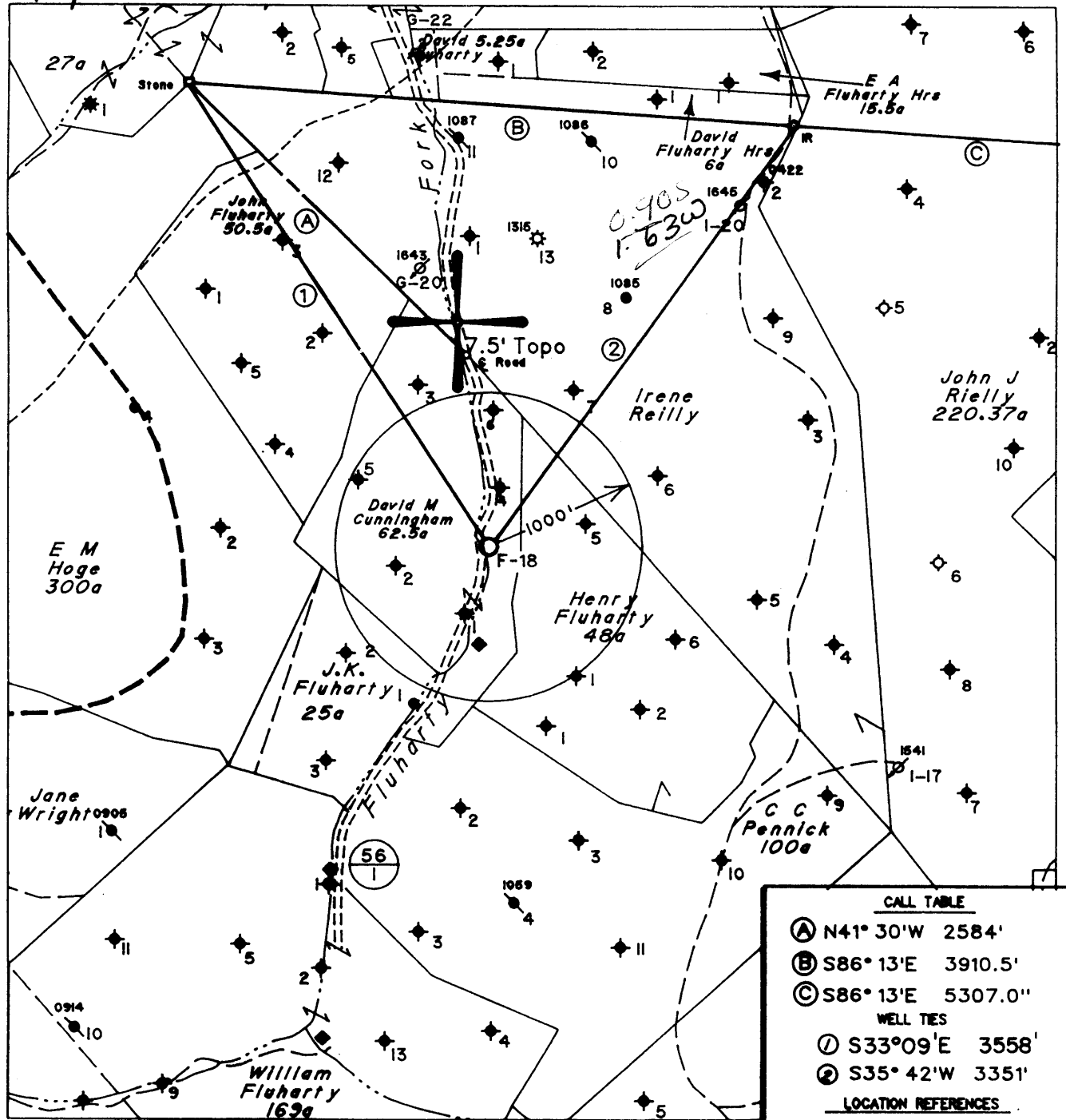
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 2900'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

NET 1674-S

GS 4/10/95

LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"



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

Denotes a Water Supply Source

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

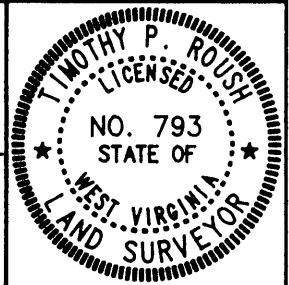
CALL TABLE

- (A) N41° 30' W 2584'
 - (B) S86° 13' E 3910.5'
 - (C) S86° 13' E 5307.0'
- WELL TIES
- (1) S33° 09' E 3558'
 - (2) S35° 42' W 3351'
- LOCATION REFERENCES
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FILE NO. 1055
 MAP NO. N57 N 3 S E W 5
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM - 902

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) [Signature]
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE March 23, 19 95
 FARM David M. Cunningham NO. F-18
 API WELL NO. 47-103-1674-S

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 915' WATERSHED Fluharty Fork
 DISTRICT Green COUNTY Wetzel
 QUADRANGLE Centerpoint

SURFACE OWNER Richard Heimbrod ACREAGE 64 Ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 64 Ac.
 LEASE NO. 47271-00

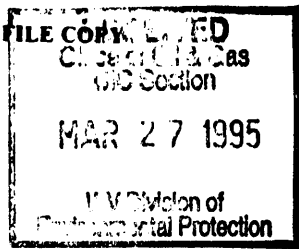
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Gordon ESTIMATED DEPTH 2900'
 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

MAY 5 1995

FORM IV-6

10/91



- 1) Date: March 24, 19 95
- 2) Operator's Well No. David M. Cunningham F-18
- 3) SIC Code _____
- 4 API Well NO. 47 - 103 - 1674-LI S
State County Permit
- 5. UIC Permit No. _____

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

Issued 05/03/95
Expires 05/03/95

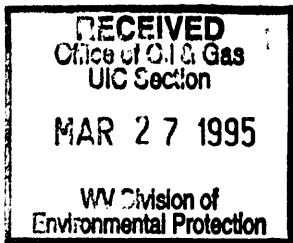
- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 915' / Watershed: Fluharty Fork
District: Green / County: Wetzel / Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Co. 37450
Address P. O. Box 5519 4670
Vienna, WV 26105
- 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) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon 419 Depth 2795 feet(top) to 2810 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2900 ft.
- 15) Approximate water strata depths; Fresh, 95 feet; salt, 1122 feet.
- 16) Approximate coal seam depths: 727
- 17) Is coal being mined in the area? Yes _____ / No
- 18) Virgin reservoir pressure in target formation 1400 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 & improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge and/or Coalbed Filters
- 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	8-5/8	L.S.	20	X		200	200	Cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		2900	2900	Cement over salt sand	Depths set
Tubing									
Liners									Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Vesta R. Holbert et vir
by deed _____ / lease / other contract _____ / dated December 5, 19 78, of record in the
Wetzel County Clerk's office in Lease Book 58-A at page 205

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



1) Date March 24, 1995
Operator's
2) Well No. David M. Cunningham F-18
3) SIC Code
4) API Well No. 47 - 103 - 1674
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>Richard Heimbrod</u>
Address <u>Box 25</u>
<u>Clarrington, OH 43915</u></p> <p>(ii) Name _____
Address _____</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 47-103-1674-LI

May 3 19 95
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 5-3-97 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>MS</i>	Casing: <i>MS</i>	Fee: <i>CK # 21499</i>
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Michael W. Lewis
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.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		" "	
Total depth reached		" "	
Well Record received		" "	
Reclamation completed		" "	

OTHER INSPECTIONS

Reason: _____

Reason: _____

STATE OF WEST VIRGINIA
DIVISION OF ENERGY
SECTION OF OIL AND GAS

Permitting
Office of Oil & 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: _____ Operator Well No.: David Cunningham F-18

LOCATION: Elevation: 915' District: _____ Quadrangle: Centerpoint
County: Wetzel
Latitude: 4700 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 8600 Feet West of 80 Deg. 40 Min. 00 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: Verbal

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Wood ss:

Richard A. Moore 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 16th day of August, 1995, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
50 sks.	300'	Surface	8-5/8" 0'	210'

Description of monument 8" CASING - 30' Above ground level
and that the work of plugging and filling said well was completed on the 16th day of August, 1995

And further deponents saith not.

Sworn and subscribe before me this 24 day of August, 1995

My commission expires: June 10, 1997
Richard A. Moore
Mike Underwood
Richard A. Moore
Notary Public

Oil and Gas Inspector: _____