

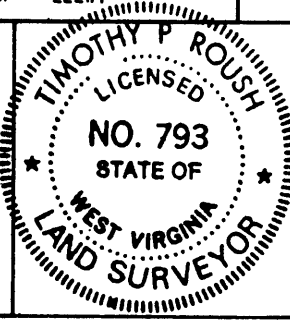
7.5' Topo	
CALL TABLE	
A. S 61° 57' E	1386.00'
B. S 60° 57' E	726.21'
C. N 74° 06' E	661.41'
D. N 34° 28' E	627.00'
E. N 47° 28' E	198.00'
F. N 3° 28' E	825.00'
G. S 17° 36' E	3052.50'

Unit Line & Property Line

FILE NO. 431  
 MAP NO. N47 N S E W  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Pennzoil Company Records

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



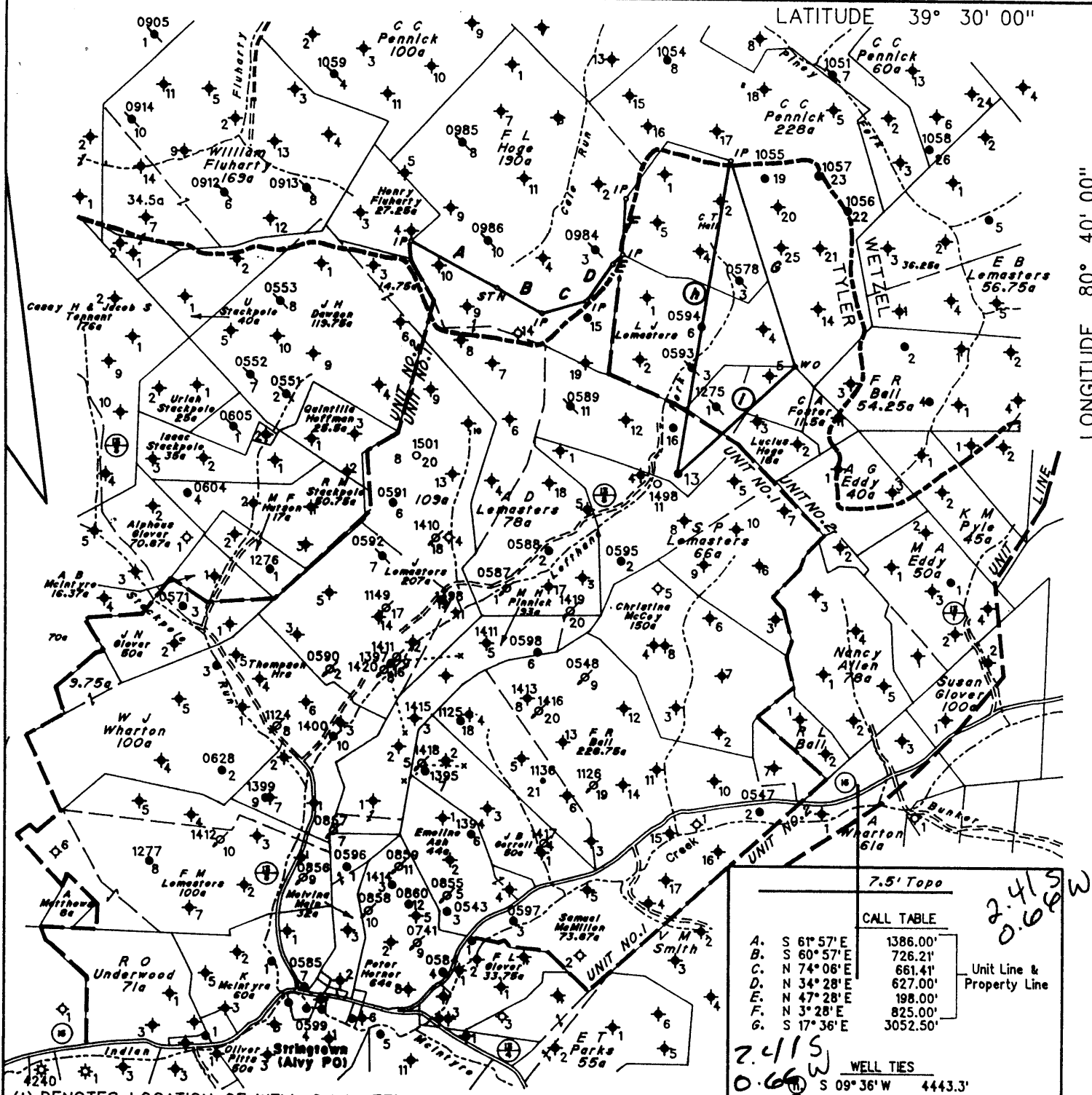
WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506



DATE October 14, 19 92  
A. D. Lemasters WELL No. 13  
 API WELL NO. 47-095-01513-P

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1054' WATERSHED Lefthand Fork  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Centerpoint  
 SURFACE OWNER Donald L. McCoy ACREAGE P10 71 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 5675 Ac.  
 LEASE NO. 67696-00  
 PROPOSED WORK: DRILL \_\_\_ CONVERT X DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OF  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Permanant Plugging of the 1929 well drilled in 1999  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Gordon ESTIMATED DEPTH 2975'  
 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

TYLER 1513-5



LATITUDE 39° 30' 00"

LONGITUDE 80° 40' 00"

7.5' Topo

CALL TABLE	
A. S 61° 57' E	1386.00'
B. S 60° 57' E	726.21'
C. N 74° 06' E	661.41'
D. N 34° 28' E	627.00'
E. N 47° 28' E	198.00'
F. N 3° 28' E	825.00'
G. S 17° 36' E	3052.50'

Unit Line & Property Line

2.415  
0.668 W

WELL TIES

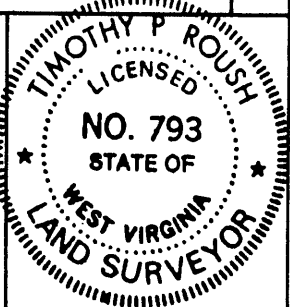
S 09° 36' W	4443.3'
S 48° 31' W	2221.4'

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

FILE NO. 431  
 MAP NO. N47 N S E W  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Pennzoil Company Records

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



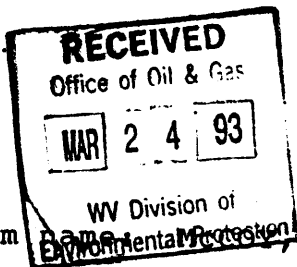
DATE October 14, 19 92  
A. D. Lemasters WELL No. 13  
 API WELL NO. 47-095-1513-S

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1054' WATERSHED Left hand Fork  
 DISTRICT McElroy S COUNTY Tyler  
 QUADRANGLE Centerpoint 15' NW

SURFACE OWNER Donald L. McCoy ACREAGE P10 71 Ac.  
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 5675 Ac.  
 LEASE NO. 67696-00

PROPOSED WORK: DRILL \_\_\_ CONVERT X 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 \_\_\_ owwo  
 TARGET FORMATION Gordon ESTIMATED DEPTH 2975' 8-D Jacksonburg  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519 Stringtown  
Vienna, W.Va. 26105 673 Vienna, W.Va. 26105 (095)



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

Well Operator's Report of Well Work

Farm Environmental Protection, DONALD L. Operator Well No.: A.D.LEMASTERS13

LOCATION: Elevation: 1054.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER  
Latitude: 12550 Feet South of 39 Deg. 30Min. 0 Sec.  
Longitude 3500 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: 11/05/92  
Well work Commenced: 11-5-92  
Well work Completed: 1-29-93  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig \_\_\_\_\_  
Total Depth (feet) 2969'  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	SEE ORIGINAL WELL RECORD FOR ORIGINAL PIPE LEFT IN WELL BORE. ?		
* PIPE REMOVED:			
4" Liner	147'	--	
4" Liner	215'	--	
4" Liner	237'	--	
3 1/2" Tbg.	2358'	--	
NEW PIPE:			
3 1/2" Csg.	2904.21	2904.21	75 Sks.
1 1/2" Tbg.	3942.85	3942.85	Tension Pkr. 2840'

OPEN FLOW DATA

(Conversion to Liquid Injection)

Producing formation Gordon Pay zone depth (ft) 2935 - 2963  
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  
Timothy P. Roush  
By: Supervisor - Surveying/Mapping  
Date: 3-1-93

Reviewed TMG  
Recorded \_\_\_\_\_

MAR 26 1993

STIMULATION

PERFORATIONS: None  
No Treatment

WELL LOG

See Original Record

EDWARDS  
MAY 1 1963  
Permits & Leases  
Office of Oil & Gas



- 1) Date: October 14, 19 92
- 2) Operator's Well No. A.D. LEMASTERS NO. 13
- 3) SIC Code \_\_\_\_\_
- 4) API Well NO. 47 - 095 - 1513 S  
State County Permit
- 5) UIC Permit No. \_\_\_\_\_

*Issued 11/05/92*  
*Expires 11/05/94*

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

- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_
- 7) LOCATION: Elevation: 1054' Watershed: Lefthand Fork  
District: McElroy County: Tyler Quadrangle: Centerpoint *286*
- 8) WELL OPERATOR Pennzoil Products Co. 37450 9) DESIGNATED AGENT J.A. Crews  
Address P.O. Box 5519 4670 Address P.O. Box 5519  
Vienna, WV 26105 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 2935 feet(top) to 2963 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2969 ft.
- 15) Approximate water strata depths: Fresh, 194 feet; salt, >194 feet.
- 16) Approximate coal seam depths: 870
- 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 2470
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides, and other chemicals necessary to maintain water quality and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge Filters and/or Coal Bed 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		
Conductor								Kinds <u>Hookwall</u>
Fresh water	<u>10</u>					<u>354</u>	<u>354</u>	<u>Existing</u>
Coal	<u>8 1/4</u>					<u>1465</u>	<u>0</u>	<u>"</u>
Intermediate	<u>6 5/8</u>					<u>2000</u>	<u>0</u>	<u>"</u>
Production	<u>5 3/16</u>					<u>2332</u>	<u>2332</u>	<u>"</u>
Tubing	<u>3 1/2</u>						<u>2358</u>	<u>"</u>
Liners #1	<u>4</u>						<u>146</u>	<u>"</u>
#2							<u>215</u>	<u>"</u>
#3							<u>236</u>	<u>"</u>
	<u>3 1/2</u>		<u>9.2</u>	<input checked="" type="checkbox"/>			<u>*</u>	<u>Cement over Salt Sand</u>

25) APPLICANT'S OPERATING RIGHTS were acquired from Stringtown Unit #1 Royalty Owners  
by deed \_\_\_\_\_ / lease \_\_\_\_\_ / other contract  / dated \_\_\_\_\_, 19\_\_\_\_\_, of record in the  
Tyler County Clerk's office in Book 235 at page 306

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

\* See Attached Prognosis

1) Date October 14, 1992  
Operator's  
2) Well No. A.D. LEMASTERS NO. 13  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 095 -  
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

- |  |   |
|--|---|
| 6) SURFACE OWNER(S) OF RECORD TO BE SERVED                       | 7 (i) COAL OPERATOR <u>N/A</u><br>Address _____                                 |
| (i) Name <u>Donald L. McCoy</u><br>Address <u>Alvy, WV 26322</u> | 7 (ii) COAL OWNER(S) WITE DECLARATION ON RECORD:<br>Name _____<br>Address _____ |
| (ii) Name _____<br>Address _____                                 | 7 (iii) COAL LESSEE WITE DECLARATION ON RECORD:<br>Name _____<br>Address _____  |
| (iii) Name _____<br>Address _____                                |   |

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 Curtis A. Lucas  
Curtis A. Lucas  
Sr. Eng. Tech.

Telephone (304) 422-6565

WR-38  
30-Oct-97

API # 47-095-01513-B

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

Office of Oil & Gas  
Permitting  
JUN 29 1998

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: MccOY, DONALD Operator Well No.: A.D. LEMASTER 13

LOCATION: Elevation: 1,054.00 Quadrangle: CENTER POINT  
District: MCELROY County: TYLER  
Latitude: 12550 Feet South of 39 Deg. 30 Min. 0 Sec.  
Longitude 3500 Feet West of 80 Deg. 40 Min. 0 Sec.

Well Type: OIL x GAS \_\_\_\_\_

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

Agent: P. S. Ondrusek Coal Operator \_\_\_\_\_  
or Owner \_\_\_\_\_

Permit Issued: 10/30/97

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Wood ss:

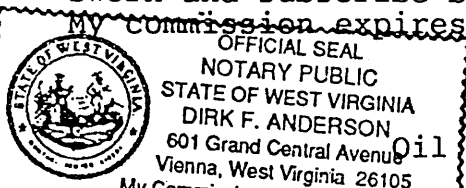
[Signature] and [Signature] being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Mike Underwood Oil and Gas Inspector representing the Director, say that said work was commenced on the 29th day of May, 1998, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
35 sks. Class A cmt.	2920'	2527'	3 1/2" 1495'	1409'
35 sks. Class A cmt.	1550'	1450'	5 1/2" 0	2332'
52 sks. Class A cmt.	920'	820'		
68 sks. Class A cmt.	400'	300'	Perforated 5" csg.	870'-880'
147 sks. Class A cmt.	200'	0'		340'-350'
				175'-185'
6% gel between cement plugs				7/1/98

Description of monument: 7" x 6' casing and that the work of plugging and filling said well was completed on the 5th day of June, 1998.

And further deponents saith not.

Sworn and subscribe before me this 26 day of JUNE, 1998



[Signature]  
[Signature]  
Notary Public

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

TYL 1513-P