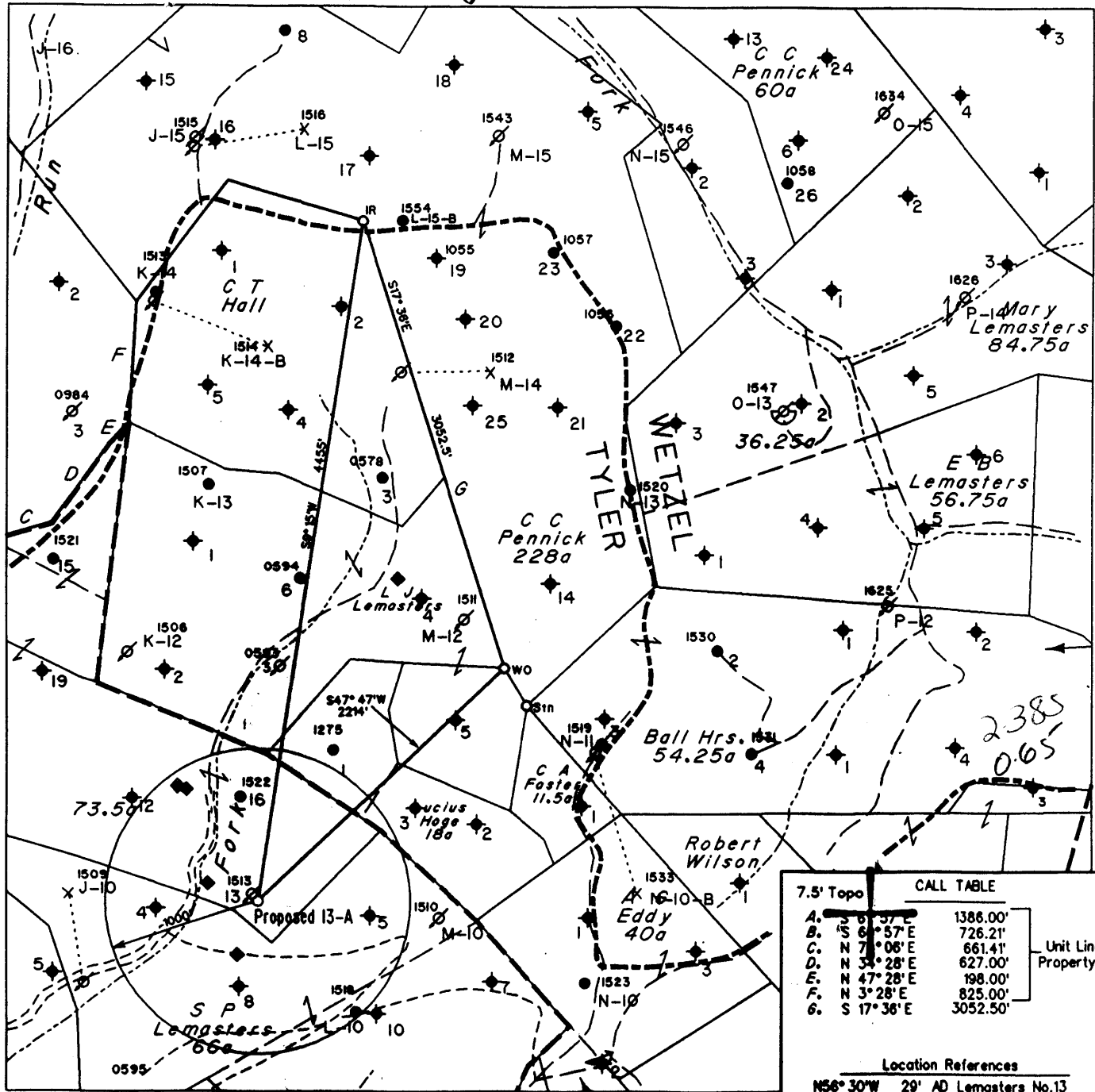


GS 10/14/97



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

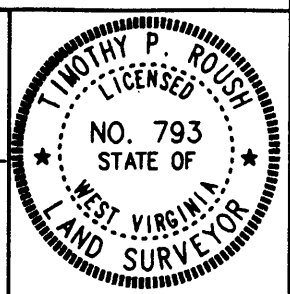
7.5' Topo		CALL TABLE	
A.	S 6° 37' E	1386.00'	Unit Line & Property Line
B.	S 6° 57' E	726.21'	
C.	N 7° 06' E	661.41'	
D.	N 3° 28' E	627.00'	
E.	N 47° 28' E	198.00'	
F.	N 3° 28' E	825.00'	
G.	S 17° 36' E	3052.50'	

Location References
 N56° 30' W 29' AD Lemasters No. 13
 S78° 56' E 97' 4" Sourwood
 N21° 48' E 98' 6" Maple

FILE NO. 431
 MAP NO. N47 N 1 S E W 4
 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



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 •10 McJunkin Road
 Nitro, West Virginia 25143-2506



DATE September 26, 19 97
 FARM A.D. Lemasters NO. 13-A
 API WELL NO. 47-095-01688-5

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL MONITORING
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1054' WATERSHED Lefthand Fork
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

SURFACE OWNER Donald L. McCoy ACREAGE
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 207 Ac.
 LEASE NO. 12958-50

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X 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 3075'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

8-0 95

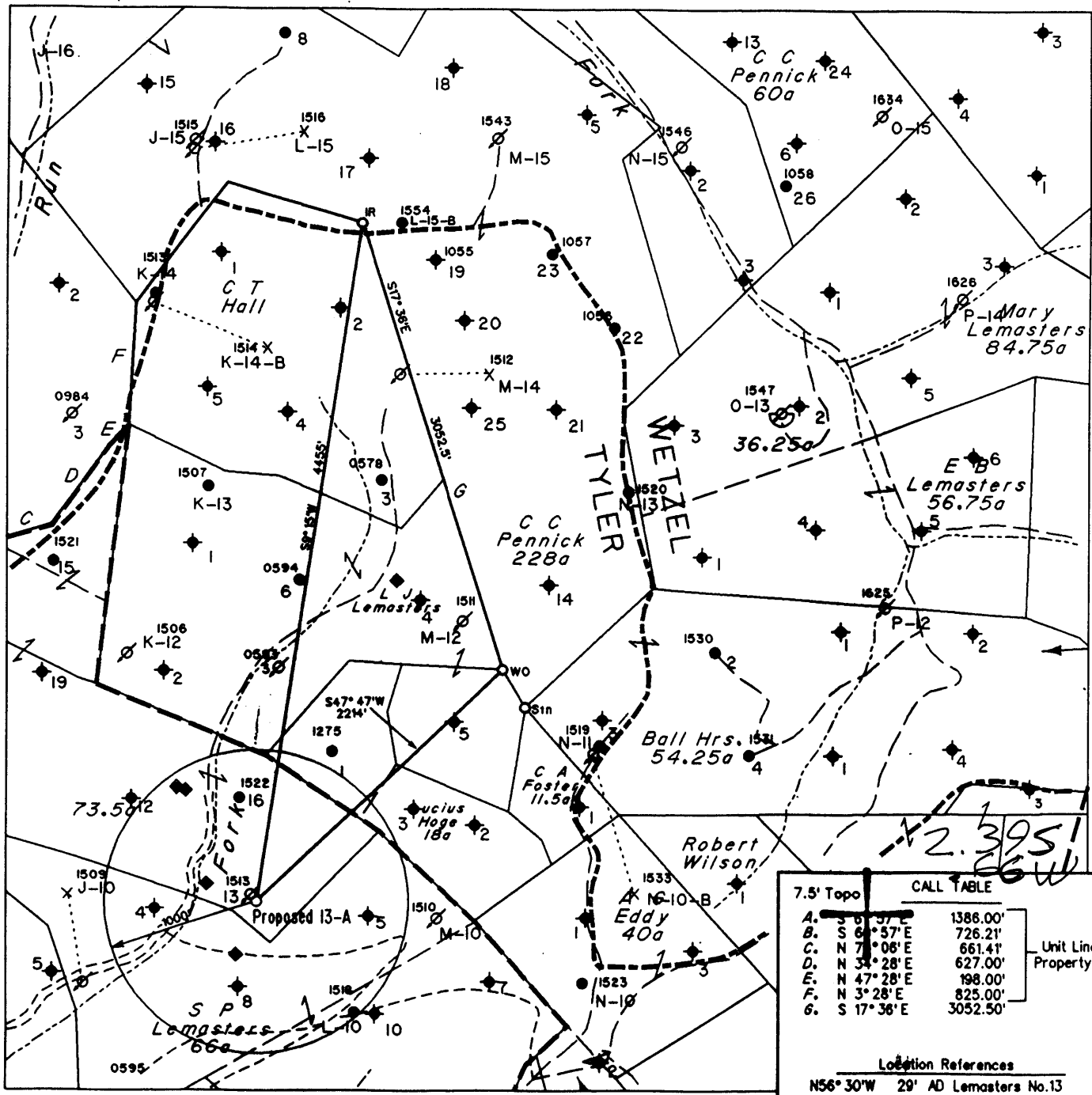
65 10/14/97

LATITUDE 39° 30' 00"

3,450'

LONGITUDE 80° 40' 00"

12,550'



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

7.5' Topo CALL TABLE		
A.	S 61° 37' E	1388.00'
B.	S 64° 57' E	726.21'
C.	N 71° 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

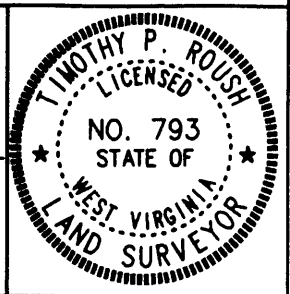
Location References

N56° 30' W 29' AD Lemasters No. 13
 S78° 58' E 97' 4" Sourwood
 N21° 46' E 98' 6" Maple

FILE NO. 431
 MAP NO. N47 N1 S E W4
 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



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 •10 McJunkin Road
 Nitro, West Virginia 25143-2506



DATE September 26, 19 97
 FARM AD. Lemasters NO. 13-A
 API WELL NO. 47-095-01688 S

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

LOCATION: ELEVATION 1054' WATERSHED Lefthand Fork
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint

SURFACE OWNER Donald L. McCoy ACREAGE
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et.al. LEASE ACREAGE 207 Ac.
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PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X 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 3075'
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

OCT 17 1997

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

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L. Operator Well No.: A.D. Lemasters #13-A

LOCATION: Elevation: 1,054.00 Quadrangle: CENTER POINT

District: McELROY County: TYLER
Latitude: 12,550 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 3,450 Feet west of 80 Deg 40 Min 0 Sec.

Company: PENNZOIL EXPLORATION &
PRODUCTION CO., P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 10/14/97
Well work Commenced: 4/28/98
Well work Completed: 6/17/98
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3,050
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.
8-5/8	327.5	327.5	110 SKS
4 1/2"	3017.9	3017.9	275 SKS

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Sand Pay zone depth (ft) 2950-2990
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: Donald D. Bright
Date: 7-23-98

TYLER 16885

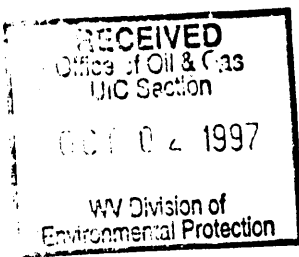
Treatment : Perforated Gordon Sand from 2963' to 2967' and 2971' to 2973' w/ 24 holes.
Treated w/ 300 gal. 15% HCl, 231 bbl cross-linked gelled water, and 13,000 lbs
20/40 sand (last 4,000# resin coated sand).

Well Log : All depths are measured relative to ground level.

Shale and Sand	0	-	501
Sand	501	-	520
Shale and Sand	520	-	700
Sand	700	-	757
Shale and Sand	757	-	921
Sand	921	-	966
Sand and Shale	966	-	1058
Sand	1058	-	1080
Shale and Sand	1080	-	1250
Sand	1250	-	1339
Sand and Shale	1339	-	1797
Sand	1797	-	1818
Sand and Shale	1818	-	1904
Sand	1904	-	1923
Sand and Shale	1923	-	2138
Big Lime	2138	-	2193
Big Injun	2193	-	2367
Shale and Sand	2367	-	2950
Gordon Sand	2950	-	2990
Shale	2990	-	3045

TO 3050

FORM WW-3(A)
Obverse



1) Date September 26, 1997
2) Well No. A.D. Lemasters No.13-A
3) SIC Code _____
4) API Well No. 47 - 095 - 1687-4
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

(i) Name Donald L. McCoy
Address Alvy, WV 26322

(ii) Name _____
Address _____

(iii) Name _____
Address _____

6 (iv) ADDITIONAL SURFACE OWNERS
Name _____
Address _____

7 (ii) COAL OWNER WITH DECLARATION ON RECORD:
Name N/A
Address _____

7(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
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 _____

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 [Signature]
Its Supervisor, Surveying/Mapping
Telephone (304) 422-6565