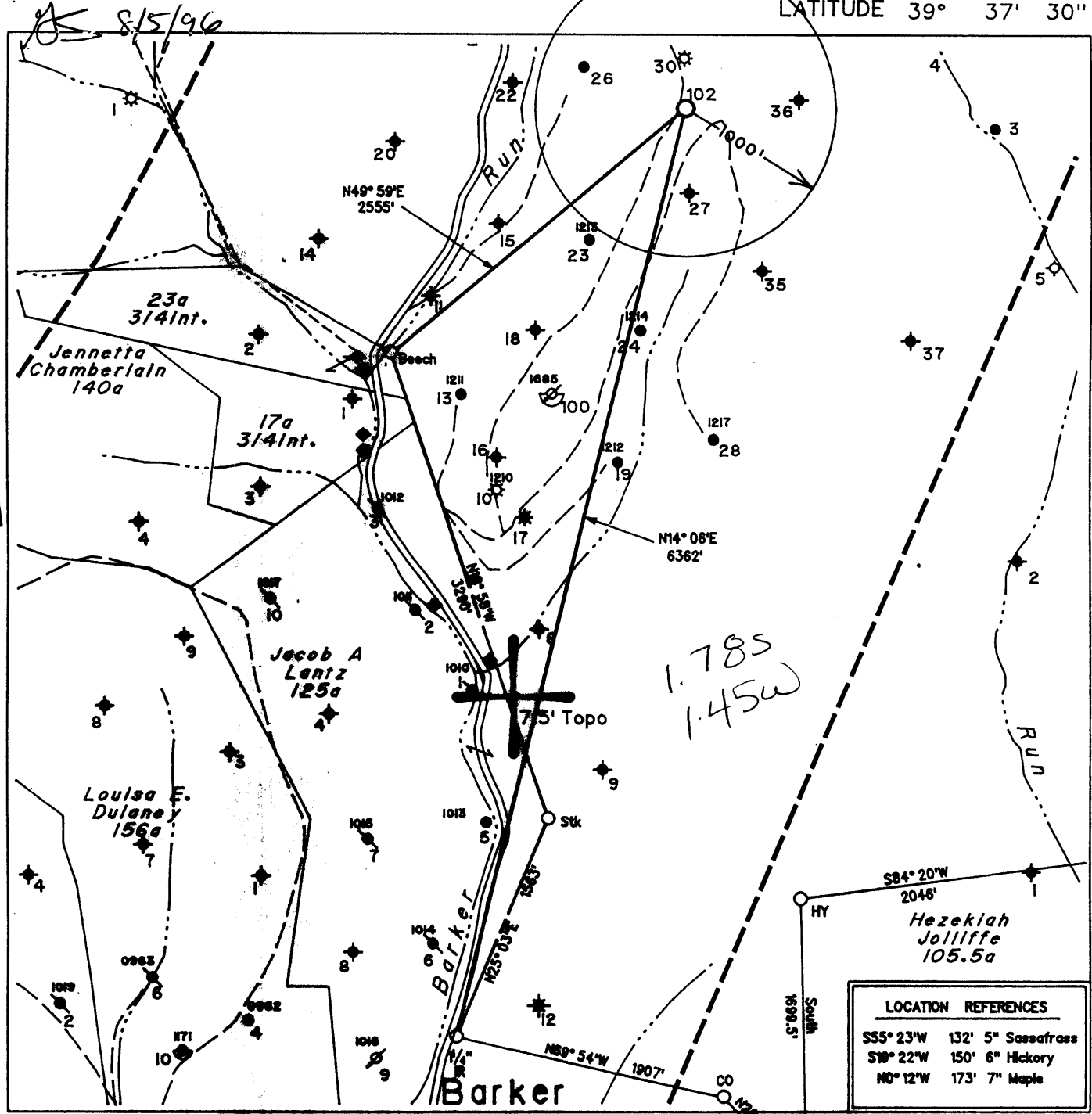


8,200'

LATITUDE 39° 37' 30"

LONGITUDE 80° 37' 30"

9,400'



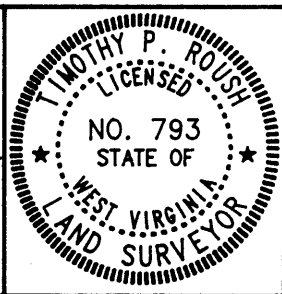
Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

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

FILE NO. 325
 MAP NO. N68 N 11 S E W 2
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM - 838'

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 July 30, 19 96
 FARM L.S. Hoyt NO. 102
 API WELL NO. 47-103-01706-5

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1327' WATERSHED Barker Run
 DISTRICT Grant COUNTY Wetzel
 QUADRANGLE Pine Grove

SURFACE OWNER Dallison Lumber Inc. ACREAGE 2099.3 Ac.
 OIL & GAS ROYALTY OWNER The Hoyt Foundation LEASE ACREAGE 2100 Ac.
 LEASE NO. 99191-00

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 3317'
 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

AUG 30 1996

8-0 90

FORM IV-6

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

Well Operator's Report of Well Work

Farm name: Dallison Lumber Company' Operator Well No.: L.S. Hoyt #102

LOCATION: Elevation: 1327' Quadrangle: Pine Grove
District: Grant County: Wetzel
Latitude: 9,400 Feet south of 39 Deg 37 Min 30 Sec.
Longitude: 8,200 Feet west of 80 Deg 37 Min 30 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 8/19/96

Well work Commenced: 9/28/96

Well work Completed: 11/1/96

Verbal plugging

permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3378'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): 1216-1230

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft.
Rows include 8-5/8" (1232', 1232', 505 Sacks) and 4 1/2" (3363.55', 3363.55', 275 Sacks)

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3271-3282
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 NOV 15 1996
By: [Signature]
Date: 11/8/96

Treatment :

Perforations:

3220-3226 -4 holes/ft. (24 holes)

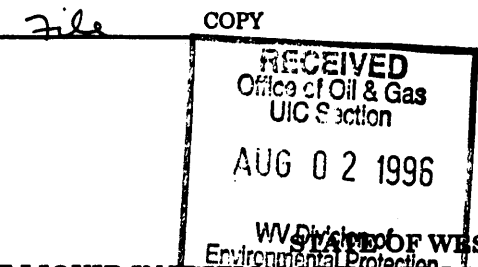
Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 214 bbls.

Borate cross-linked gelled water and 10,000 lbs. of 20/40 sand.

Well Log :

Sand & Shale	0	-	1159
Coal	1159	-	1168
Sand	1168	-	1240
Shale	1240	-	1344
Sand	1344	-	1358
Shale	1358	-	1434
Sand	1434	-	1444
Shale	1444	-	1660
Sand	1660	-	1685
Shale	1685	-	1810
Sand	1810	-	1886
Shale	1886	-	2234
Sand	2234	-	2244
Shale	2244	-	2300
Sand	2300	-	2314
Shale	2314	-	2326
L. Lime	2326	-	2350
B. Lime	2350	-	2410
B Injun	1886	-	2622
Shale	2622	-	3182
Gordon Stray	3182	-	3204
Shale	3204	-	3214
Gordon	3214	-	3232
Shale	3232	-	3378



1) Date July 30, 1996
 2) Well No. L.S. Hoyt No.102
 3) SIC Code _____
 4) API Well No. 47 - 103 - 1706-LI
 State County Permit
 5) UIC Code _____

Issued 08/19/96
Expires 08/19/98

22407

STATE OF WEST VIRGINIA
Environmental Protection
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL TYPE: Liquid Injection Gas Injection _____ Waste Disposal _____

LOCATION: Elevation 1327 Watershed Barker Run
 District Grant County Wetzel Quadrangle Pine Grove 548

8) WELL OPERATOR: Pennzoil Products Company 4676 9) DESIGNATED AGENT: Philip S. Ondrusek
P.O. Box 5519 P.O. Box 5519
Vienna, WV 26105 Vienna, WV 26105

10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Randal Mick 11) DRILLING CONTRACTOR:
 Address 111 Blackshere Drive Name _____
Mannington, WV 26582 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 Depth 3217 Ft. (Top) t 3232 Ft. (Bottom)
419

14) Estimated depth of completed well (or actual depth of existing well) 3317 Ft.

15) Approximate water strata depths: Fresh 507 Ft. Salt 1627 Ft.

16) Approximate coal seam depths: 1127 Ft.

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.

20) Maximum proposed injection operations: Volume per hour 25 bbl. Bottom Hole Pressure 2332 psig.

21) Detailed indentification of materials to be injected, including additives: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.

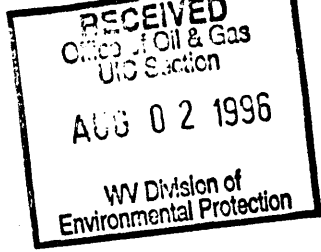
22) Filters (if any): Cartridge filters and/or coal bed filters

23) Specifications for cathodic protection and other corrosion control: _____

24) CASING AND TUBING PROGRAM:

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	8 5/8"	L.S.	20#	X		1177	1177	Cement To	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		3317	3317	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from J.A. & M. Oil & Gas Co.
 by Deed _____ Lease _____ Other Contract Dated April 6, 1994 of record in the
Wetzel County Clerk's Office in Lease Book 74-A at Page 684



1) Date July 30, 1996
2) Well No. L.S. Hoyt No.102
3) SIC Code _____
4) API Well No. 47 - 103 - 1706-LA
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 Dallison Lumber Inc.
Address Route 2, Box 50
Jacksonburg, WV 26377
(ii) Name _____
Address _____
(iii) Name _____
Address _____

7 (i) COAL OPERATOR:

Name N/A
Address _____

7 (ii) COAL OWNER WITH DECLARATION ON RECORD:

Name DUPECH, Inc.
Address 6451 Pleasant St.
Library, PA 15129

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.

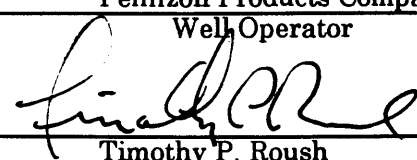
The date proposed for the first injection or waste disposal is _____

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 
Its Timothy P. Roush
Supervisor, Surveying/Mapping
Telephone (304) 422-6565

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-103-1706-LI

August 19th. 1996 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 8-19-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<i>/</i>	<i>✓</i>	<i>AS</i>	<i>AS</i>	<i>CK#</i>

0301284621

Michael D. Jours
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: _____