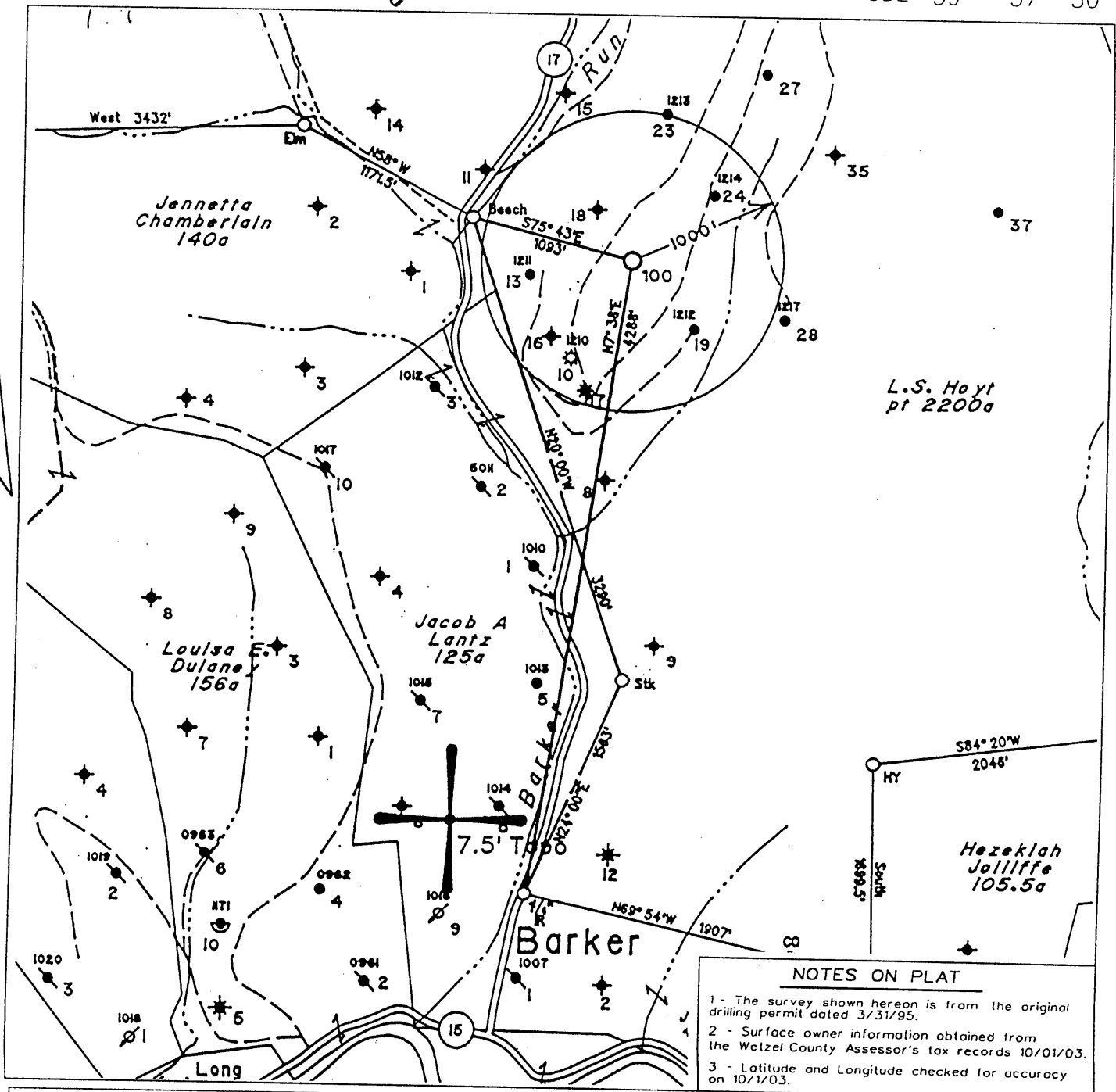


Longitude = 80° 39' 26.8"

9,125'

LATITUDE 39° 37' 30"



LONGITUDE 80° 37' 30"

Latitude = 39° 35' 37.2"

WET 1685F

**NOTES ON PLAT**

- 1 - The survey shown hereon is from the original drilling permit dated 3/31/95.
- 2 - Surface owner information obtained from the Wetzel County Assessor's tax records 10/01/03.
- 3 - Latitude and Longitude checked for accuracy on 10/1/03.

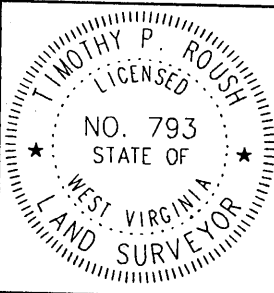
Note: No known water supply sources are located within 1000' of proposed well.

(+) 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



WEST VIRGINIA  
 Division of Environmental Protection  
 Office of Oil and Gas  
 1356 Hansford St.  
 Charleston, West Virginia 25301



DATE October 1, 2003  
 FARM L.S. Hoyt NO. 100  
 API WELL NO. 47-103-1685F

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1282' WATERSHED Barker Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove 7.5'  
 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 X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

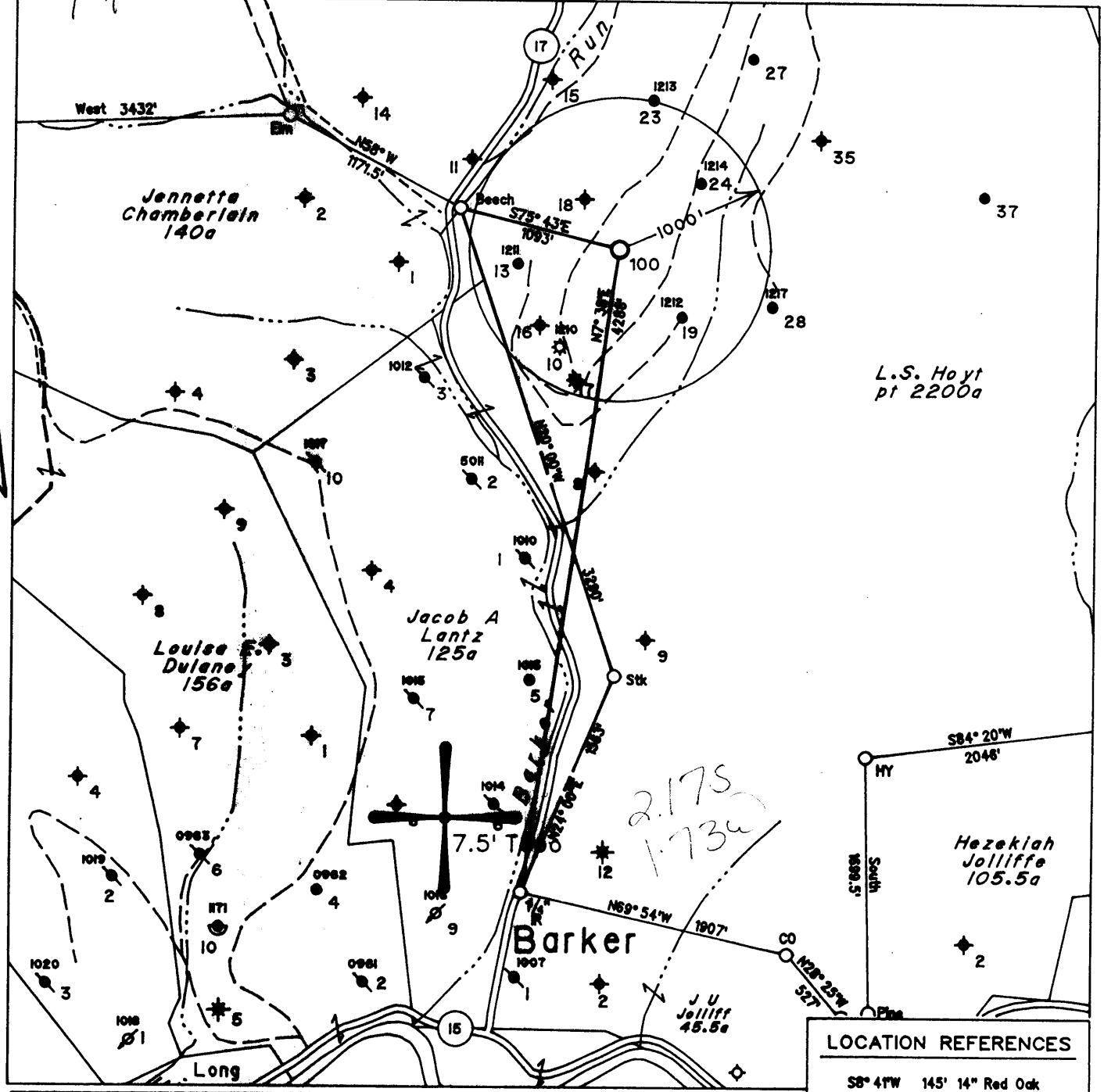
PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Gordon ESTIMATED DEPTH 3,220'  
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Michael McCown  
 ADDRESS: P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna, W.Va. 26105

001 24 2003

9,150'

LATITUDE 39° 37' 30"

MS 4/14/95



LONGITUDE 80° 37' 30"  
11,350'

LOCATION REFERENCES

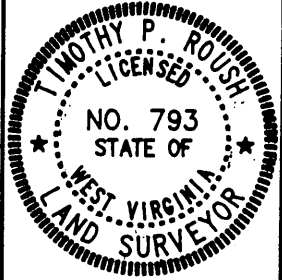
- S8° 4'W 145' 14" Red Oak
- N12° 49'E 127' 8" Maple
- S40° 56'W 142' 14" Maple

(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 March 31, 19 95  
 FARM L.S. Hoyt NO. 100  
 API WELL NO. 47-103-01685-S

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1282' WATERSHED Barker Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove

SURFACE OWNER Dalison 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 3230'

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT  
 ADDRESS P. O. Box 5519 ADDRESS 673  
Vienna, W.Va. 26105

Phillip Ondrusek  
P.O. box 5519  
Vienna, WVa. 26105-5519

WET 1685-S

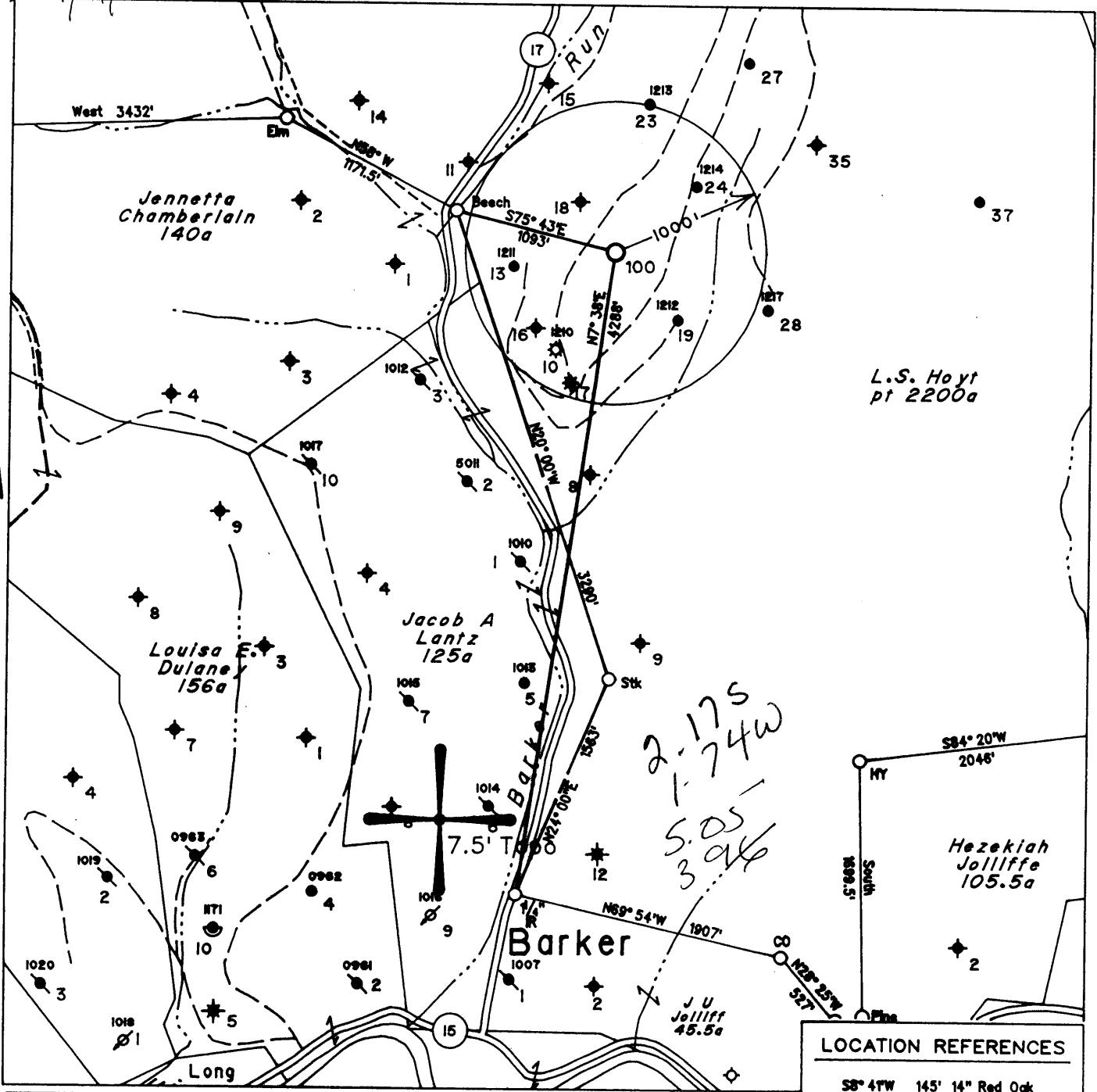
9,150'

LATITUDE 39° 37' 30"

LONGITUDE 80° 37' 30"

11,350'

MS 4/14/95



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

LOCATION REFERENCES

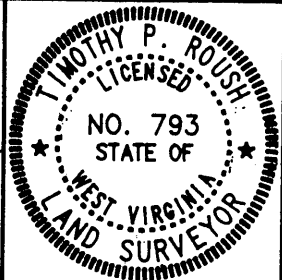
- S8° 41'W 145' 14" Red Oak
- N12° 49'E 127' 8" Maple
- S40° 56'W 142' 14" Maple

(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) [Signature]  
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE March 31, 1995  
 FARM L.S. Hoyt NO. 100  
 API WELL NO. 47-103-01685-5

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1282' WATERSHED Barker Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove Jolliffe C  
 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 3230'  
 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

APR 6 1995

8-040

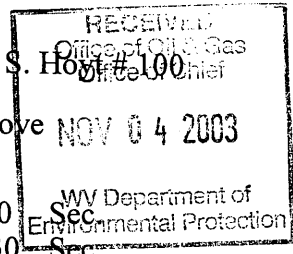
State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

*MJ*

Well Operator's Report of Well Work

Farm name: Dallison Lumber Inc  
LOCATION: Elevation: 1,282.00  
District: Grant  
Latitude: 11,350 Feet south of  
Longitude: 9,150 Feet west of

Operator Well No.: L. S. Hoyt #100  
Quadrangle: Pine Grove  
County: WETZEL  
39 Deg 37 Min 0  
80 Deg 37 Min 30



Company: EAST RESOURCES, INC.  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN  
Inspector: MIKE UNDERWOOD  
Permit Issued: 10/23/03  
Well work Commenced: 10/20/03  
Well work Completed: 10/24/03  
Verbal plugging permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 3220'  
Fresh water depths (ft) NA  
Salt water depths (ft) NA  
Is coal being mined in area (Y/N) N  
Coal Depths (ft): 1072-1076

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1148.00'	1148.00'	475 sks
4 1/2"	3215.00'	3215.00'	170 sks

OPEN FLOW DATA Waterflood Injector

Producing formation Gordon Pay zone depth (ft) 3148'-3162'  
 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: EAST RESOURCES, INC

By: *Mike Bolden*  
Date: 11/3/03

WET 1085

**Treatment :**

Treated perforations 3154'-3158 w/ 250 gals 15% HCL, 320 Bbls cross linked gel and 20,600 # 20/40 sand

**Well Log :**

See original well record

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 #100

LOCATION: Elevation: 1,282.00

Quadrangle: Pine Grove

District: Grant

County: Wetzel

Latitude: 11,350 Feet south of

39 Deg 37 Min 30 Sec.

Longitude: 9,150 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: 11/7/96

Well work Commenced: 10/8/96

Well work Completed: 11/19/96

Verbal plugging

permission granted on:

Rotary Cable  Rig

Total Depth (feet) 3320'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 1072-1076

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1148'	1148'	Existing Casing
4 1/2"	3215.00'	3215.00'	Existing Casing

OPEN FLOW DATA

\*Well was drilled as a waterflood injection well in 1995. No open-flow data was obtained and no stimulation was performed. Current well work permit was to stimulate well.

Producing formation Gordon Pay zone depth (ft) 3148-3162

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: 1/3/97

3 4 1997

**Treatment :**

Perforations: 3154-3158 -4 holes/ft. (16 holes)  
Treatment: Treated via 4.5" Casing with 300 gals. 15% HCl, 208 bbls.  
Borate cross-linked gelled water and 8,350 lbs. of 20/40 sand.

**Well Log :**

TD - 3320'

See Original Well Record.

APR 15 1996

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: DALLISON LUMBER COMPANY Operator Well No.: L.S. HOYT #100

LOCATION: Elevation: 1,282' Quadrangle: PINE GROVE  
District: GRANT County: WETZEL  
Latitude: 11,350 Feet south of 39 Deg 37 Min 30 Sec.  
Longitude: 9,150 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: 6/6/95

Well work Commenced: 9/9/95

Well work Completed: 9/17/95

Verbal plugging permission granted on: \_\_\_\_\_

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 3,220'

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"	1148'	1148'	475 SKS
4 1/2"	3215'	3215'	170 SKS

OPEN FLOW DATA \* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3148'-3162'  
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.

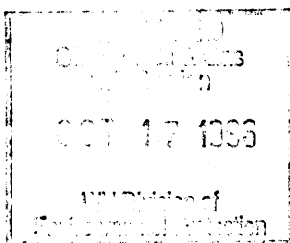
For: PENNZOIL PRODUCTS COMPANY APR 19 1996  
By: [Signature]  
Date: 4/12/96



**Treatment:** Not Perforated or Treated. Drilled as Core Test Well.  
PZL Will Re-Permit Prior to Completion.

**Well Log:**

Sand & Shale	0	-	2232'
Sand	2232'	-	2244'
Shale	2244'	-	2258'
Sand & Shale	2258'	-	2341'
Sand	2341'	-	2536'
Sand & Shale	2536'	-	3116'
Gordon Stray	3116'	-	3139'
Shale	3139'	-	3148'
Gordon	3148'	-	3162'
T.D.	3200'		



1) Date October 7, 1996  
 2) Well No. L.S. Hoyt No.100  
 3) SIC Code \_\_\_\_\_  
 4) API Well No. 47 - 103 - 1685 - Frac  
                   State           County           Permit  
 5) UIC Code \_\_\_\_\_

*Issued 11/07/96*  
*Expires 11/07/98*

**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**

22888

WELL TYPE:           Liquid Injection X           Gas Injection \_\_\_\_\_           Waste Disposal \_\_\_\_\_

LOCATION:           Elevation 1282           Watershed Barker Run  
 District Grant           (4) County           Wetzel           Quadrangle           Pine Grove 548

WELL OPERATOR: Pennzoil Products Company 4670  
P.O. Box 5519  
Vienna, WV 26105           3745  
 9) DESIGNATED AGENT: Philip S. Ondrusek  
P.O. Box 5519  
Vienna, WV 26105

10) OIL & GAS INSPECTOR TO BE NOTIFIED:  
 Name Randal Mick  
 Address 111 Blackshere Drive  
Mannington, WV 26582

11) DRILLING CONTRACTOR:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

12) PROPOSED WELL WORK:   Drill \_\_\_\_\_   Drill Deeper \_\_\_\_\_   Redrill \_\_\_\_\_   Stimulate X  
                                   Plug Off Old Formation \_\_\_\_\_   Perforate New Formation \_\_\_\_\_   Convert \_\_\_\_\_  
 Other Physical Change in Well (specify) \_\_\_\_\_

13) Geological target formation Gordon 49   Depth 3148   Ft. (Top) to 3162   Ft. (Bottom)

14) Estimated depth of completed well (or actual depth of existing well) 3272   Ft.

15) Approximate water strata depths:   Fresh NA   Ft.           Salt NA   Ft.

16) Approximate coal seam depths: 1072   Ft.

17) Is coal being mined in the area?           Yes           X   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 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 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	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS	PACKERS
		Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	8 5/8"	L.S.	20#	X		1148	1148	Existing Casing	
Coal									Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		3215	3215	Existing Casing	Depths Set
Tubing									
Liners									Perforations
									Top   Bottom

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

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-103-1685-FRAC

November 7th. 19 96  
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 11-7-98 unless well work is commenced prior to that date and prosecuted with due diligence

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

0301553568

*[Signature]*  
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		.. ..	

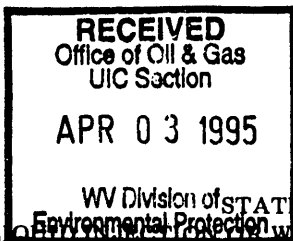
OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

10/91

20661



NOTICE OF L... WASTE DISPOSAL WELL WORK PERMIT APPLICATION  
for the  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

1) Date: March 31, 19 95  
2) Operator's Well No. L. S. Hoyt #100  
3) SIC Code  
4) API Well NO. 47 - 103 - 1685-LI  
State County Permit  
5) UIC Permit No.  
*Issued 06/06/95*  
*Expires 06/06/97*

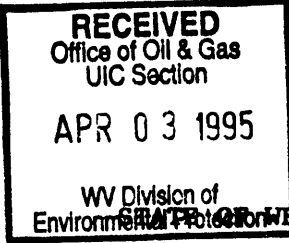
- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_
- 7) LOCATION: Elevation: 1282' / Watershed: Barker Run / District: Grant / County: Wetzel / Quadrange: Pine Grove 548
- 8) WELL OPERATOR Pennzoil Products Co. 37450 / Address: P. O. Box 5519 4670 / 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: Randal Mick / Address: 111 Blackshere Drive / Mannington, WV 26582
- 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 3120 feet(top) to 3130 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3230 ft.
- 15) Approximate water strata depths; Fresh 462 feet; salt, 1489 feet.
- 16) Approximate coal seam depths: 1082'
- 17) Is coal being mined in the area? Yes \_\_\_\_\_ / No  /
- 18) Virgin reservoir pressure in target formation 1350 psig. Source Estimate
- 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 30 / Bottom hole pressure 2496
- 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 &/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	Left in well		Kinds	Sizes
Conductor										
Fresh water	8-5/8	L.S.	20	X		532	532	Cement to surface		
Coal										
Intermediate										
Production	4-1/2	J-55	10.5	X		3230	3230	Cement over salt sand		
Tubing										
Liners										

25) APPLICANT'S OPERATING RIGHTS were acquired from J. A. & M. Oil & Gas Company by deed \_\_\_\_\_ / lease \_\_\_\_\_ / other contract  / dated April 6, 19 94, of record in the Wetzel County Clerk's office in Lease Book 74-A at page 684

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



1) Date March 31, 1995  
Operator's \_\_\_\_\_  
2) Well No. L.S. Hoyt #100  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 103 - 1686  
State County Permit \_\_\_\_\_

**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>Dallison Lumber, Inc.</u><br/>Address <u>Rt. 2, Box 50</u><br/><u>Jacksonburg, WV 26377</u></p> <p>(ii) Name _____<br/>Address _____</p> <p>(iii) Name _____<br/>Address _____</p> | <p>7 (i) COAL OPERATOR <u>N/A</u><br/>Address _____</p> <p>7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:<br/>Name _____<br/>Address _____</p> <p>7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:<br/>Name _____<br/>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 [Signature] Timothy P. Roush  
Its Supervisor, Surveying/Mapping  
Telephone (304) 422-6565