

**NOTES ON PLAT**

1 - The survey shown hereon is from the original drilling permit dated 10/21/96.

2 - Surface owner information obtained from the Wetzel County Assessor's tax records 4/3/03.

3 - As-drilled Latitude and Longitude measured 3/26/02 by DGPS (Sub-Meter Mapping Grade).

(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'

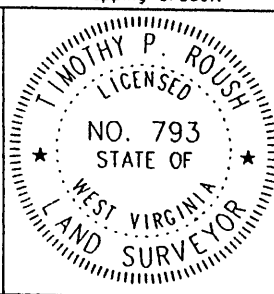
MINIMUM DEGREE OF ACCURACY 1 in 200

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



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



DATE April 7, 2003

FARM L.S. Hoyt NO. 104

API WELL NO. 47-103-01721-F

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL

(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1370' WATERSHED Betsy 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. 52265-50

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 3,538'

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

APR 25 2003

(PINE GROVE - CAMP RUN FIELD 40)

FORM IV-0

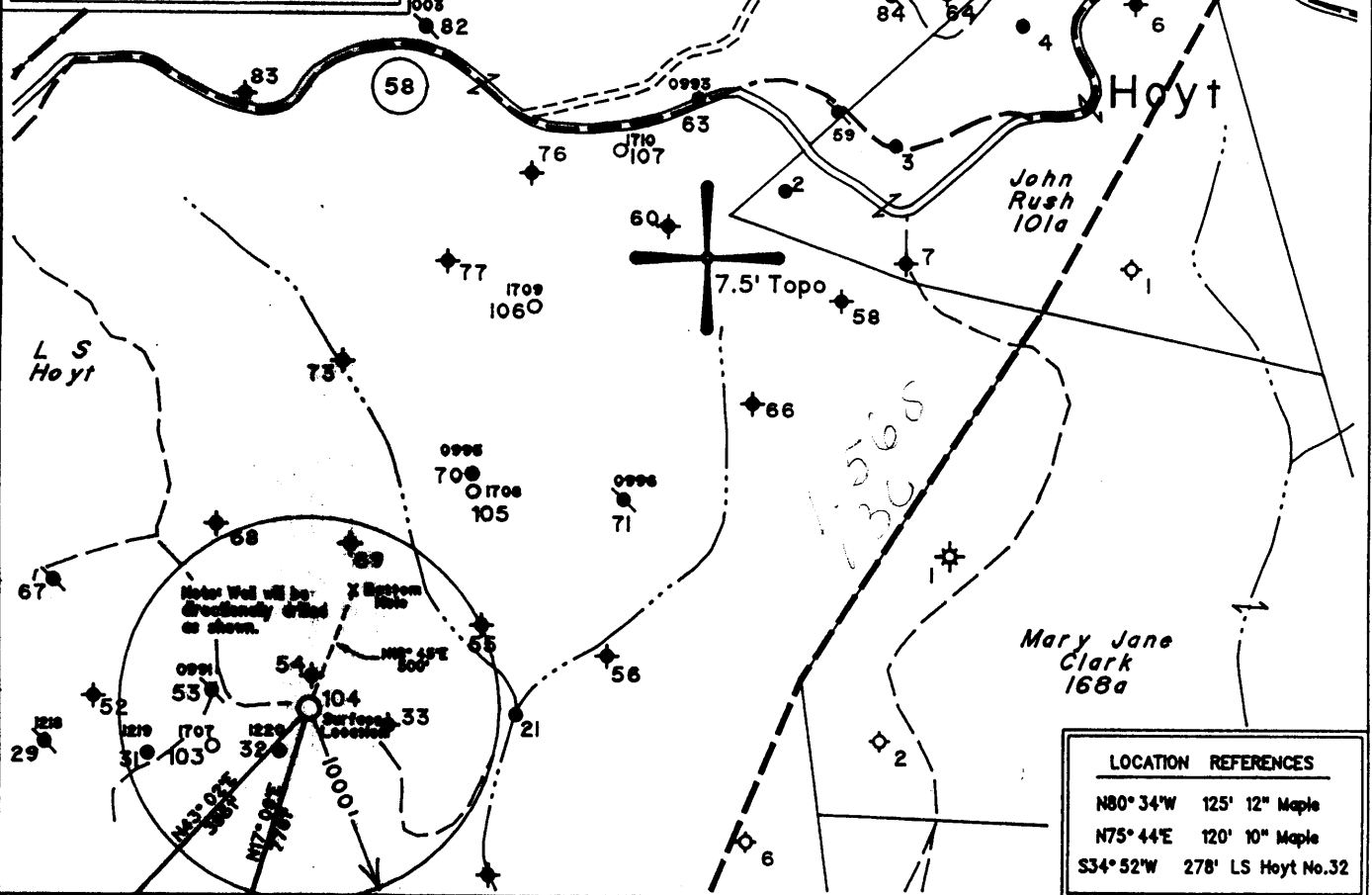
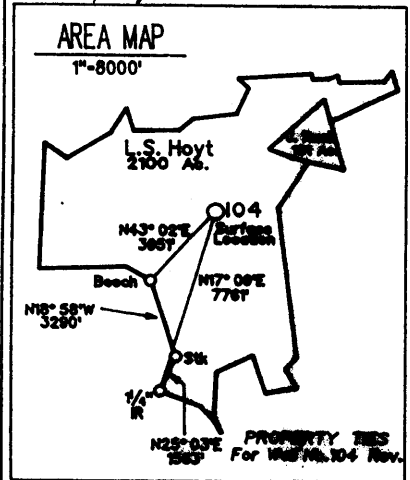
WET 1721 F

7,500'

LATITUDE 39° 37' 30"

LONGITUDE 80° 37' 30"

10/21/96



LOCATION REFERENCES	
N80° 34' W	125' 12" Maple
N75° 44' E	120' 10" Maple
S34° 52' W	278' LS Hoyt No.32

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

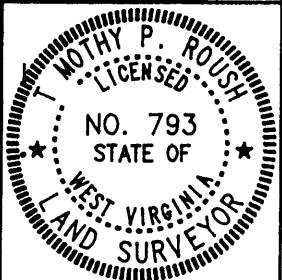
◆ - Denotes a Water Supply Source

(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 September 24, 19 96  
 FARM L.S. Hoyt NO. 104 Rev.  
 API WELL NO. 47-103-01721-5

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1370' WATERSHED Betsy 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. 52265-50

PROPOSED WORK: RILL  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 3480' MD  
 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 25 1996

9-040

FORM IV-6

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

*1213*

Well Operator's Report of Well Work

Farm name: DALLISON LUMBER CO. Operator Well No.: L. S. HOYT 104

LOCATION: Elevation: 1,370.00 Quadrangle: PINEGROVE

District: GRANT County: WETZEL  
Latitude: 8,200 Feet south of 39 Deg 37 Min 30 Sec.  
Longitude: 7,500 Feet west of 80 Deg 37 Min 30 Sec.

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

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 04/25/03

Well work Commenced: 05/29/03

Well work Completed: 06/03/03

Verbal plugging

Permission granted on:

Rotary  Cable  Rig

Total Depth (feet) 3,538

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 1216-1221

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1293.00	1293.00	580 sks
4 1/2"	3490.00'	3490.00'	275 sks

RECEIVED  
Office of Oil & Gas  
Permitting  
JUN 03 2003  
WV Department of  
Environmental Protection

OPEN FLOW DATA

\* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 3418'-3424'  
 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: *Ben Held*

Date: 6/3/03

JUN 15 2003

WET  
1/2

**Treatment :** Treated Gordon perforations 3418'-3424' with 250 gals 15% HCL, 359 bbls Crosslinked gel water and 20,300# 20/40 sand

**Well Log** See original well log

JAN 06 1997

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Permitting  
Office of Oil & Gas

Farm name: Dallison Lumber Company Operator Well No.: L.S. Hoyt #104 Rev.

LOCATION: Elevation: 1,370.00 Quadrangle: Pine Grove

District: Grant County: Wetzel  
Latitude: 8,200 Feet south of 39 Deg 37 Min 30 Sec.  
Longitude: 7,500 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: 10/21/96  
Well work Commenced: 10/24/96  
Well work Completed: 12/5/96

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

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

Total Depth (feet) 3538'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 1216-1221

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1293'	1293'	580 Sacks
4 1/2"	3490.00'	3490.00'	275 Sacks

OPEN FLOW DATA

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

\*Well was drilled directionally N58-21E 653' to bottom hole.

Producing formation Gordon Pay zone depth (ft) 3418-3424

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: 12/23/96

**Treatment:**

**Perforations:**

**3424-3428 - 4 holes/ft. (16 Holes)**

**Treatment:**

**Treated via 4.5" Casing with 300 gals. 15% HCl, 136 bbls.**

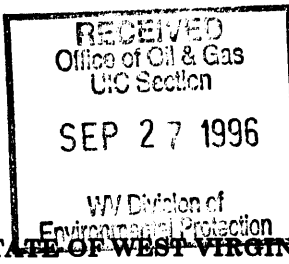
**Borate cross-linked gelled water and 12,500 lbs. of 20/40 sand.**

**Well Log:**

**\*Well was drilled directionally N58-21E 653' to bottom hole.**

**All depths given below are measured depths.**

Sand	0	-	36
Sand & Shale	36	-	1216
Pittsburg Coal	1216	-	1221
Sand	1221	-	1326
Shale	1326	-	1377
Sand	1377	-	1417
Sand & Shale	1417	-	2500
Big Injun	2500	-	2700
Shale	2700	-	3374
Gordon Stray	3374	-	3406
Shale	3406	-	3418
Gordon	3418	-	3424
Shale	3424	-	3538



1) Date August 29, 1996  
 2) Well No. L.S. Hoyt No.104 Rev.  
 3) SIC Code \_\_\_\_\_  
 4) API Well No. 47 - 103 - 1721-11  
 State County Permit  
 5) UIC Code \_\_\_\_\_

*Issued 10/21/96*  
*Expires 10/21/98*

22743

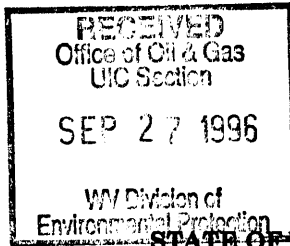
**NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION**  
**for the**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**

- WELL TYPE: Liquid Injection  Gas Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_
- LOCATION: Elevation 1370 Watershed Betsy Run 548  
 District Grant County Wetzel Quadrangle Pine Grove
- WELL OPERATOR: Pennzoil Products Company 4670 9) DESIGNATED AGENT: Philip S. Ondrusek  
P.O. Box 5519 2745 3 P.O. Box 5519  
Vienna, WV 26105 Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Randal Mick  
 Address 111 Blackshire Drive  
Mannington, WV 26582
- 11) DRILLING CONTRACTOR: Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 12) PROPOSED WELL WORK: Drill  Drill Deeper \_\_\_\_\_ Redrill \_\_\_\_\_ Stimulate   
 Note: Well Will be Drilled Plug Off Old Formation \_\_\_\_\_ Perforate New Formation \_\_\_\_\_ Convert \_\_\_\_\_  
 Directionally N18-45E 500' Other Physical Change in Well (specify) \_\_\_\_\_
- 13) Geological target formation Gordon 49 Depth 3379 MD Ft. (Top) to 3394 MD Ft. (Bottom)  
 14) Estimated depth of completed well (or actual depth of existing well) 3480 MD Ft.
- 15) Approximate water strata depths: Fresh 550 Ft. Salt 1670 Ft.  
 16) Approximate coal seam depths: 1240 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 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	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 & 25	X		1290	1290	Cement To	
Coal								Surface	Sizes
Intermediate									
Production	4 1/2"	J-55	10.5#	X		3480 MD	3480 MD	Cement Over	Depths Set
Tubing								Salt Sand	
Liners									Perforations
									Top Bottom

25) APPLICANTS OPERATING RIGHTS were acquired from L.S. Hoyt et al.  
 by Deed \_\_\_\_\_ Lease  Other Contract \_\_\_\_\_ Dated Jan. 6, 1920 of record in the  
Wetzel County Clerk's Office in Lease Book 76 at Page 300



1) Date August 29, 1996  
2) Well No. L.S. Hoyt No.104 Rev.  
3) SIC Code \_\_\_\_\_  
4) API Well No. 47 - 103 - 1721-61  
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.

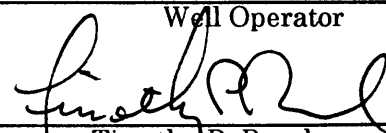
The date proposed for the first injection or waste disposal is \_\_\_\_\_

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



**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-103-1721-S

October 21st. 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 10-21-98 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: <i>[Signature]</i>	Casing: <i>[Signature]</i>	Fee: <i>[Signature]</i>
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0301449654

*[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: \_\_\_\_\_