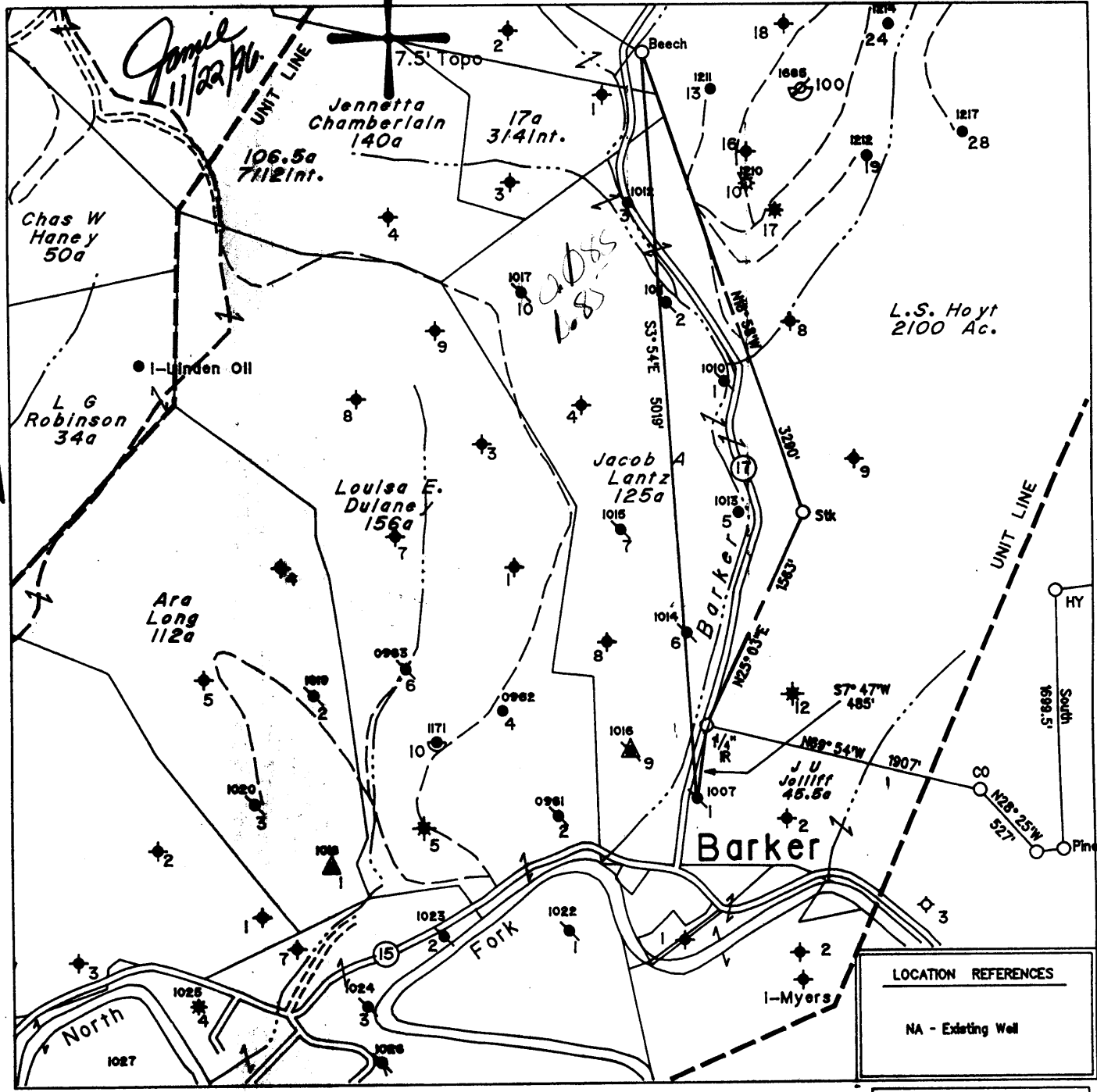


9,850'

LATITUDE 39° 35' 00"

LONGITUDE 80° 37' 30"

1,000'



LOCATION REFERENCES
NA - Existing Well

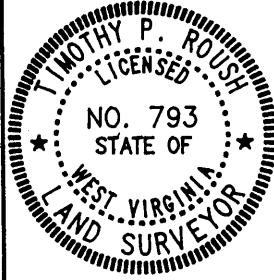
◆ - Denotes a Water Supply Source

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

FILE NO. 978  
 MAP NO. N68 N 10 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

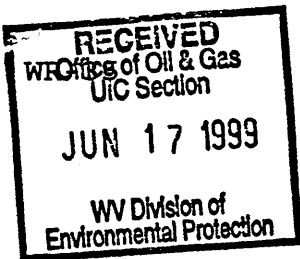


DATE November 8, 19 96  
 FARM J.U. Joliffe NO. 1  
 API WELL NO. 47-103-01007-71

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 753' WATERSHED Barker Run  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove  
 SURFACE OWNER Wm. L Springer ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER Frances M. Dudley LEASE ACREAGE 46 Ac.  
 LEASE NO. 24951-50  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Run New Casing  
Re-work existing well, drilled prior to 1929 around 1902  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Gordon ESTIMATED DEPTH 2613'  
 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

NOV 22 1996

FORM IV-6



21-Nov-96  
API # 47-103-01007

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

Reviewed AS

Well Operator's Report of Well Work

Farm name: SPRINGER, WILLIAM L. Operator Well No.: J.U.JOLIFFE #1

LOCATION: Elevation: 753.00 Quadrangle: PINE GROVE

District: GRANT County: WETZEL  
Latitude: 1000 Feet South of 39 Deg. 35Min. 0 Sec.  
Longitude 9850 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: 11/22/96  
Well work Commenced: 4/1/96  
Well work Completed: 2/19/97  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable  Rig  
Total Depth (feet) 2613  
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.
6 5/8"	1562'	1562'	Original Casing
5 3/16"	2077'	87'	Original Casing
4 1/2"	2004'	2004'	Set On Tension Packer
2 3/8"	2584'	2584'	-

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2591-2613  
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~~ PENNZENERGY

By: [Signature]  
Date: 6/15/99

\* This is a Waterflood Producer. No Stimulation was performed and no Open-Flow Measurement were made.

JUL 01 1999

WET 1007

Well No. 24951    Acres 7 5/8    Farm Name J. H. Hilbert    Well No. 24951  
 District Grant    Location Maps    Purchased From  
 Date Completed    Date Purchased  
 Date Commenced    Sold To  
 Date Completed    Date Sold  
 Date Abandoned

FORMATION					CASING RECORD				
Kind	Top	Bottom	Steel Line Mans. Ft.	Tests	Size	Bottom Gauge Steel Line	Full Well Tally Mch.	Pulled Tally Mch.	Cemented
Ion Sand	2591				6-5/8"		1562		Date
. Pay	2592				5-3/16"		2077		Size Csg.
al Depth	2613				4 1/2 x 4		554		Top "
									Bot. "

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 UIC Section  
 JUN 17 1942  
 W. Va.

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set

TORPEDO RECORD						
Date	No. Ors.	Size Shell	Top Shot	Bottom	Results	
6-20-1902	60	6 Pigs	--			
5-23-1907	100	10 Pigs	--			
5-12-1927	30	4"x12"	2592	2604		

ation Top Casing head    745-42  
 AC. Hilbert March 21, 1949

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	PLUG		
			Size	Kind	Depth

Prod.	Sand	★ At Completion	★ 30 Days After	★
	Gordon			

APPROVED

Smithfield, W. Va.

*47-10301007-W*

*103-1007-W*

*Issued 11/22/96*

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

*Expires 11/22/98*

22941

- 1) Well Operator: Pennzoil Products Company <sup>4670</sup> 37450 (4) 548
- 2) Operator's Well Number: J.U. Joliffe No.1 3) Elevation 753
- 4) Well Type: (a) Oil X or Gas \_\_\_\_\_
- (b) If Gas: Production \_\_\_\_\_ Underground Storage \_\_\_\_\_
- Proposed Target Formation(s): Gordon <sup>419</sup>
- Proposed Total Depth: 2613 feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_\_\_ No X
- 11) Proposed Well Work: Pull 5" casing & run new 4 1/2" casing

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NOV 19 1996  
Permitting Office of Oil & Gas

12) CASING AND TUBING PROGRAM *Rework.*

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight Per Ft.	For Drilling		Left in Well
Conductor						
Fresh Water	6 5/8"			1562	1562	Existing Casing
Coal						
Intermediate	5 3/16"			2077	0	Pull Casing
Production	4 1/2"	J-55	10.5	2600	2600	Run New Casing
Tubing						
Liners						<i>303/11.1</i>

Packers: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

- Fee(s) Paid
- Well Work Permit
- Reclamation Fund
- WPCP
- Plat
- WW-9
- WW-2B
- Bond
- Blanket (Type)
- Agent

*0301632066  
388*

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WV Division of  
Environmental Protection  
NOV 19 1996

1) Date: November 15, 1996  
2) Operator's Well Number  
J.U. Joliffe No.1  
3) API Well No: 47 - 103 - 1007 - W  
State County Permit

Permitting  
Office of Oil & Gas  
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Wm. L. Springer  
Address Barker Route 15  
Pine Grove, WV 26419  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name NA  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name NA  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Randal Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304) - 986-3324

(c) Coal Lessee with Declaration  
Name NA  
Address \_\_\_\_\_

**TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:**

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas **OR**  
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above-named parties, by:

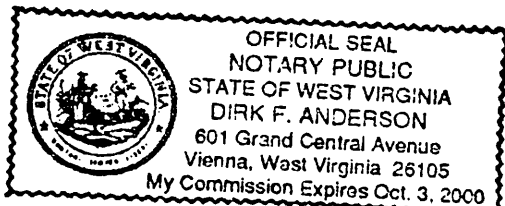
\_\_\_\_\_ Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

Well Operator Pennzoil Products Company  
By: [Signature] Timothy P. Roush  
Its: Supervisor, Surveying/Mapping  
Address P.O. Box 5519  
Vienna, WV 26105-5519  
Telephone (304) 422-6565



Subscribed and sworn before me this 15th day of November  
[Signature] Notary Public

My commission expires 10/3/2000