

CG-10
Rev. 9-71



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NOV 1 - 1983

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Ownership Tariff 7.5'

Permit No. 47-087-3778-Li

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood Storage _____
Disposal _____ (Kind _____)

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
From P. A. Tallman Acres 2350
Location (waters) Sycamore Fork
Well No. 73 Elev. 1098
District Smithfield County Roane
The surface of tract is owned in fee by Ray Elmore
Address Left Hand, WV
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Point Pleasant, WV 26101
Drilling Commenced 7-3-83
Drilling Completed 7-7-83
Initial open flow WV cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill Cu. ft. (Sks.)
Size 20-16			
Cund. 13-10"			
9 5/8			
8 5/8			
7	375	375	20 sks.
4 1/2			
WV 4 1/2	2215	2215	75 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured: 9/29/83 Big Injun w/250 qts. 15% HCL, 160 BGW, 1500# 20/40 sd

Perf: 2124-32/16H

Coal was encountered at _____ NR _____ Feet _____ Inches
Fresh water: _____ NR _____ Feet _____ Salt Water _____ NR _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Shale			0	46		
Shale			46	80		
Sand			80	104		
Silt, Shale, Sand			104	1643		
Salt Sand			1643	1770		
Shale, Sand, Silt			1770	1940		
Little Lime			1940	1983		
Blue Monday			1983	1990		
Pencil Cave			1990	2006		
Big Lime			2006	2117		
Big Injun			2117	2135		
Pocono Shale			2135	2222		
Total Depth				2222		

JAN 23 1984

DRILLING CONTRACTOR

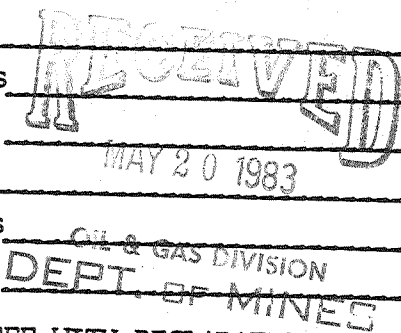
- 1) Date: May 19 1983
- 2) Operator's
Well No. P. A. Tallman #73
- 3) SIC Code
- 4) API Well No. 47 - 087 - 3778
State County Permi
- 5) UIC Permit _____

STATE OF WEST VIRGINIA
LIQUID INJECTION OR WASTE DISPOSAL WELL PERMIT APPLICATION

For Both

DEPT. OF MINES, OFFICE OF OIL AND GAS, DNR, DIVISION OF WATER RESOURCES

- 6) WELL TYPE: Liquid Injection X / Disposal ___ / Gas Injection ___ /
- 7) LOCATION: Elevation 1090.65' Watershed Sycamore Fork
District Smithfield County Roane Quadrangle Tariff 7.5'
- 8) WELL OPERATOR Pennzoil Company 12) DESIGNATED AGENT James A. Crews
Address P. O. Box 1588 Address P. O. Box 1588
Parkersburg, WV Parkersburg, WV
- 9) ROYALTY OWNER Anna Lee Collins 13) COAL OPERATOR NO COMMERCIAL COAL
Address 1009 Main Street Address _____
Point Pleasant, WV
- Acreage 2350
- 10) SURFACE OWNER Ray Elmore 14) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Left Hand, WV Name _____
Address _____
Acreage 49 Name MAY 20 1983
Address _____
- 11) OIL AND GAS INSPECTOR TO BE NOTIFIED BEFORE
DRILLING, AND 24 HOURS IN ADVANCE OF ANY
MECHANICAL INTEGRITY TEST
Name Homer H. Dougherty 15) COAL LESSEE WITH DECLARATION ON RECORD:
Address Linden Rt., Box 3A Name _____
Looneyville, WV Address _____



The undersigned well operator is entitled to operate for liquid injection or waste disposal purposes at the above location under a deed ___ / lease X / other contract ___ / dated May 21, 1906, to the undersigned well operator from P. A. Tallman, et ux. (If said deed, lease, or other contract has been recorded:)
Recorded on _____, 19____, in the office of the Clerk of the County Commission of Roane County, West Virginia, in Lease Book 12 at page 26. A permit is requested as follows:

-) PROPOSED WORK: Convert ___ / Drill X / Drill deeper ___ / Fracture or stimulate ___ / Plug off old formation ___ / Other physical change in well (specify) _____
-) Date of first liquid injection or waste disposal: _____, 19____.

PROPOSED WORK ORDER
THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-37 UPON COMPLETION

-) Estimated depth of completed well 2180 feet Rotary X / Cable tools ___ /
-) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
-) Approximate coal seam depths: _____ Is coal being mined in the area? Yes ___ / No ___ /
-) GEOLOGICAL TARGET FORMATION Big Injun Depth 2109 feet(top) to 2138 feet(bottom)
 - a) Virgin reservoir pressure in target formation 80 psig; Source Estimated
 - b) Estimated reservoir fracture pressure _____ psig (BHFP)
 - c) Perforation intervals Big Injun* Open-hole intervals _____
-) MAXIMUM PROPOSED INJECTION OPERATIONS *Will pick zones to perforate from the log
Volume per hour: 12 Bbls. Bottom hole pressure: 2000 psig
-) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED - PLUS ADDITIVES
Fresh Water
-) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL _____
-) FILTERS (IF ANY) Coal Filters

27) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									
Fresh water	7				X	350	350	Cement to surface	Kinds
Coal									Neat
Intermediate									Sizes
Production Tubing	4-1/2	K55	9.5	X		2180	2180	Over Salt Sand	Depths
Liners									Perforations
									Top Bottom

28) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

The person signing this document shall make the following certification:

Pennzoil Company
Well Operator

"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.

By Curtis A. Lujan
Its Supervisor, Surveying & Mapping

W A I V E R

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____.

By: _____

Its _____

OFFICE USE ONLY

PERMIT

Permit number 47-087-3778-LI

June 13 19 83
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 prior to the construction of roads, locations and pits for any permitted work. (Refer to No. 10)

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.

Permit expires February 13, 1984 unless work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>D.R. My.</u>	Plat: <u>My.</u>	Casing: <u>My.</u>	Fee: <u>15358</u>
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[Signature]
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.