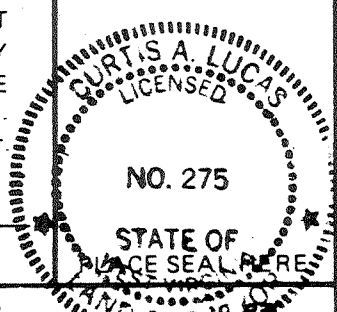


FILE NO. 1446  
 MAP 62 SQS 52-53 W34-35  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION SARAH M. SERGENT NO. 10 115.68'

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 Curtis A. Lucas  
**CURTIS A. LUCAS LLS 275**



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE JUNE 8,  
 FARMS SARAH M. SERGENT NO. 10  
 API WELL NO. 47-087-3779-LI  
 STATE COUNTY PERMIT

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION**

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1124.85' WATER SHED BRANCH OF HENRY FORK  
 DISTRICT SMITHFIELD COUNTY ROANE  
 QUADRANGLE TARIFF other NW  
 SURFACE OWNER WARREN COTTRILL ACREAGE \_\_\_  
 OIL & GAS ROYALTY OWNER RICHARD BOWLBY LEASE ACREAGE 300  
 LEASE NO. 61985  
 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 BIG INJUN ESTIMATED DEPTH 2188'  
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS  
 ADDRESS P. O. BOX 1588 ADDRESS P. O. BOX 1588  
PARKERSBURG, W. V. 26101 PARKERSBURG, W. V. 26101

*8-0 Tariff (Tallman) (199)*

CG-10  
Rev. 9-71



RECEIVED

OCT 17 1983

STATE OF WEST VIRGINIA OIL & GAS DIVISION  
DEPARTMENT OF MINES DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Outdrangle Tariff 7.5'

Permit No. 47-087-3779

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

Company Pennzoil Company  
Address P.O. Box 1588, Parkersburg, WV 26101  
From S. M. Sergent Acres 300  
Location (waters) Branch of Henry Fork  
Well No. 13 Elev. 1124.85  
District Smithfield County Roane  
The surface of tract is owned in fee by \_\_\_\_\_  
Warren Cottrill  
Address Tariff, WV

Mineral rights are owned by Richard Bowlby  
Address Parkersburg Rd., Spencer, WV

Drilling Commenced 8-20-83

Drilling Completed 8-23-83

Initial open flow WIW cu. ft. \_\_\_\_\_ bbls.

Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.

Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Well treatment details:

Fractured: 9/15/83 Big Injun w/250 gal. acid, 380 BGW, 1500# 20/40 sd.

Attach copy of cementing record.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	386	386	170 sks.
7			
5 1/2			
4 1/2	2025	2025	115 sks.
3			
2			
Liners Used			

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water: \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Sand			0	400		
Shale			400	450		
Silt, Shale, Sand			450	1669		
Salt Sand			1669	1809		
Silt, Shale, Sand			1809	1906		
Little Lime			1906	1980		
Blue Monday			1980	1986		
Pencil Cave			1986	2010		
Big Lime			2010	2124		
Big Injun			2124	2152		
Pocono Shale			2152	2191		
Total Depth				2191		

JAN 23 1984

*Jerry*

- 1) Date: June 9 1983
- 2) Operator's  
Well No. S. M. Sergent #13
- 3) SIC Code
- 4) API Well No. 47 -087 -3779  
State County Permi
- 5) UIC Permit \_\_\_\_\_

DRILLING CONTRACTOR

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  / Disposal \_\_\_ / Gas Injection \_\_\_ /
- 7) LOCATION: Elevation 1124.85 / Watershed Branch of Henry Fork  
District Smithfield / County Roane / Quadrangle \_\_\_\_\_
- 8) WELL OPERATOR Pennzoil Company / 12) DESIGNATED AGENT James A. Crews  
Address P. O. Box 1588 / Address P. O. Box 1588  
Parkersburg, WV 26101 / Parkersburg, WV 26101
- 9) ROYALTY OWNER Richard Bowlby / 13) COAL OPERATOR NO COMMERCIAL COAL  
Address Parkersburg Rd. / Address \_\_\_\_\_  
Spencer, WV 25276
- 10) SURFACE OWNER Warren Cottrill / 14) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Address Tariff, WV / Name \_\_\_\_\_  
Acreage \_\_\_\_\_ / Address \_\_\_\_\_  
Name \_\_\_\_\_ / JUN - 9 1983  
Address \_\_\_\_\_ / OIL & GAS DIVISION  
DEPT. OF MINES
- 1) 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 3-A / Name \_\_\_\_\_  
Looneyville, WV / Address \_\_\_\_\_

i) The undersigned well operator is entitled to operate for liquid injection or waste disposal purposes at the above location under a deed \_\_\_ / lease  / other contract \_\_\_ / dated July 7, 1909, to the undersigned well operator from S. M. & J. A. Sergent. (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 17 at page 114. A permit is requested as follows:

- ) PROPOSED WORK: Convert \_\_\_ / Drill  / 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 2188 feet Rotary  / 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 2120 feet(top) to 2144 feet(bottom)
  - a) Virgin reservoir pressure in target formation 80 psig; Source Estimate
  - b) Estimated reservoir fracture pressure \_\_\_\_\_ psig (BHFP)
  - c) Perforation intervals \_\_\_\_\_ Open-hole intervals Big Injun

MAXIMUM PROPOSED INJECTION OPERATIONS  
Volume per hour: 12.5 Bbls. Bottom hole pressure: 1800 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	370	370	Cement to Surface	Kinds
Coal									Sizes
Intermediate									Depths
Production Tubing	4-1/2	K55	9.5	X		2120	2120	Over Salt Sand	Perforations
Liners									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

By: Curtis A. Lucas  
Its Supervisor, Surveying & Mapping

"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.

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 47-087-3779-LI

June 24 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 24, 1984 unless work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>YB</u>	Agent: <u>al</u>	Plat: <u>M. J.</u>	Casing: <u>M. J.</u>	Fee: <u>15677</u>
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[Signature]  
Administrator, Office of Oil and Gas

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

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Warren Cottrill Operator Well No.: ~~XXXXXX~~ S. M. Sargent # 13

LOCATION: Elevation: Smithfield 5 Quadrangle: Tariff  
District: 1125' County: Roane  
Latitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
Longitude: \_\_\_\_\_ Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Well Type: OIL  GAS  Water IN.T. Nothing 4280692.70  
Easting 481505.50

Company Triad Hunter Coal Operator  
5669 Wallback Rd. or Owner  
Wallback WV 25285 NO Coal

Agent Tim Keaton Coal Operator  
Permit Issued Date \_\_\_\_\_ or Owner

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 24 day of November, 2012 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT RECEIVED
Cement	2200'	2075'	1300' of 5 1/2"	386' of 5 1/2" of Oil and Gas
Cement	1300'	1200'		
Cement	1175'	1075'		
Cement	440'	340'		
Cement	100'	0'		

Col between all plugs.

WV Department of Environmental Protection

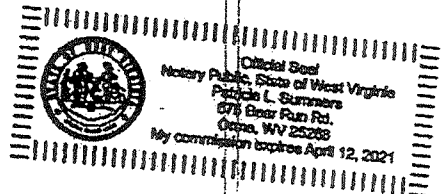
Description of monument 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 12 day of Dec, 2012

And further deponents saith not. Rick Duckworth  
Robert Stewart

Sworn and subscribe before me this 9 day of October, 2013

My commission expires: April 12, 2021

Fabricia Summers  
Notary Public



Affidavit reviewed by the Office of Oil and Gas:

[Signature]

Title: Inspector

Did not witness 2/11/13/2013