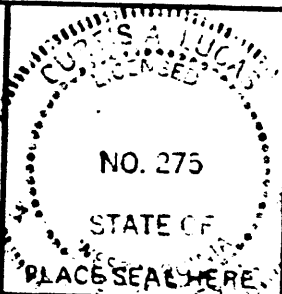


FILE NO 920
 MAP N62E SQS N11-12 E22
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1 in 5000
 PROVEN SOURCE OF ELEVATION A. Conway 3, Elev. 1079.47 Ft.

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 Sept. 17
 FARM Andrew Conway NO. 17
 API WELL NO. 47-061-0632-41
 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 1053.58' WATER SHED Bennefield Prong
 DISTRICT Clay COUNTY Monongalia
 QUADRANGLE Grant Town 7.5' Blacksville 15' WC
 SURFACE OWNER Henry Conway ACREAGE 6.26
 OIL & GAS ROYALTY OWNER Appalachian Royalties LEASE ACREAGE 185
 LEASE NO. 6907-50

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 Big Injun ESTIMATED DEPTH 2052
 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

OCT 08 1981

8-0 FAIRVIEW STATLER RUN 66



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APR 30 1982

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

**Oil and Gas Division
WELL RECORD**

Quadrangle Granttown 7.5'

Permit No. 47-061-632-Li

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

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV
Farm Andrew Conaway Acres 185
Location (waters) Bennefield Prong
Well No. 17 Elev. 1053.58'
District Clay County Monongalia
The surface of tract is owned in fee by Henry Conaway
Address Fairview, WV
Mineral rights are owned by Appalachian Royalties
Address P. O. Drawer 1917, Clarksburg WV
Drilling Commenced 10-16-81
Drilling Completed 10-21-81
Initial open flow WIW 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 up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	616	616	300 sks.
7			
6 1/2			
4 1/2	2032	2032	150 sks.
3			
2			
Liners Used			

Well treatment details:

Water Injection Well

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1982

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	133		
Pittsburgh Coal			133	140		
Shale			140	512		
Pittsburgh Coal			512	520		
Shale			520	888		
Sand			888	892		
Shale & Sand			892	1727		
Little Lime			1727	1756		
Big Lime			1756	1826		
Loyalhanna			1826	1908		
Pocono <u>Big Injun</u>			1908	1982		
Shale			1982	2040		
Total Depth				2040		

MAY 10 1982

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date Apr 29 1982
 APPROVED Curtis A. Luman Owner
 Supervisor, Surveying & Mapping

Date: August 25, 1981

Operator's Well No. Andrew Conaway No. 17
API Well No. 47-061-632-L1
State County Permit

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

PRE-OPERATION CERTIFICATE
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL

WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
Address P. O. Box 1588 Address P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION Big Injun Depth 1927 feet(top) to 1972 feet(bottom)
Virgin reservoir pressure in target formation 900 psig
Source of information on virgin reservoir pressure calculated
Perforation intervals _____ Open-hole intervals _____

MAXIMUM PROPOSED INJECTION OPERATIONS

Volume per hour: 30 bbl. Bottom hole pressure: 2000 psig

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED

Liquids to be injected for oil recovery under Code § 22-4-10a: Fresh water

Wastes to be disposed of: Produced water from waterflood operations to be reinjected.

Additives (slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.): bactericide

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL

FILTERS (IF ANY) In line cartridge filter at injection plant.

ADDITIONAL DRILLING AS PART OF THE CONVERSION

(Complete and submit Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change".)

DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION:

(To be completed below unless the new casing and tubing program is described on a Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", submitted in connection with the permit to which this Form IV-37 pre-operation certificate relates.)

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		
Conductor									Kinds
Fresh water									Sizes
Coal	8 5/8	H40	20	X		615	615	To surface	Depths set
Intermediate									Perforations:
Production	4 1/2	J55	9.5	X		2052	2052	75 sacks	Top Bottom
Tubing									
Liners									

(Continue on reverse side)

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

AUG 26 1981

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[03-81]

MECHANICAL INTEGRITY TEST

Test method: _____

The undersigned certifies that the test above was made
on _____, 19____, and demonstrated the
mechanical integrity of the well. The above test will
be performed again within ninety (90) days of five
years from this date and certified to the office.

FACILITIES OR SYSTEMS TO PROTECT THE
INTEGRITY OF THE GEOLOGICAL TARGET
FORMATION FRACTURING THE CONFINING STRATA _____

APPLICATION FOR VARIANCE (IF ANY) FROM REGULATION 9 01(a)
[Specify purpose, necessity, and justification]

Pennzoil Company
Well Operator
BY: Curtis A. Lucas
Curtis A. Lucas
Its Supervisor, Surveying & Mapping

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

LIQUID INJECTION OR WASTE DISPOSAL WELL PERMIT APPLICATION

WELL TYPE: Liquid Injection X / Waste Disposal _____
LOCATION: Elevation: 1053.58' Watershed: Bennefield Prong
District: Clay County: Monongalia Quadrangle: Granttown 7.5'
GEOLOGICAL TARGET FORMATION: Big Injun Approximate depth 1927 feet
Virgin reservoir pressure in target formation 900 psig (surface measurement)
Source of information on virgin reservoir pressure Calculated

WELL OPERATOR Pennzoil Company
Address P. O. Box 1588
Parkersburg, WV 26101

DESIGNATED AGENT James A. Crews
Address P. O. Box 1588

ROYALTY OWNER Appalachian Royalties
Address P.O. Drawer 1917
Clarksburg, WV

COAL OPERATOR Eastern Associated Coal
Address Granttown, WV 26574

SURFACE OWNER Henry Conaway
Address Fairview, WV
Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name William Blosser
Address Colfax, WV

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
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 April 24, XX 1889 to the undersigned well operator from Andrew Conaway.
[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of Monongalia County, West Virginia, in Lease Book 26 at page 362. A permit is requested as follows:

PROPOSED WORK: Convert _____ / Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.
Date of first liquid injection or waste disposal: _____, 19____

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within thirty (30) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
OIL AND GAS DIVISION
DEPARTMENT OF MINES
SEP 17 1981

Pennzoil Company
Well Operator
By Curtis A. Lewis
Its Supervisor, Surveying & Mapping

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON
FORM IV-35 AND/OR FORM IV-37 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Assoc.
Address Charleston, WV

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2052 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 X / No /

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		
Conductor									Kinds
Fresh water									
Coal	8-5/8	H40	20	X		615	615	To surface	Sizes
Intermediate									
Production Tubing	4-1/2	J55	9.5	X		2052	2052	75 sks. or into Salt Sand	Depths set
Liners									Perforations:
									Top Bottom

NOTE 1: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-3 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2a, (iii) unless previously paid on the same well, the fee required by Code § 22-4-12a, (iv) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-3 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-3 filed in connection therewith.

NOTE 2: In addition to the permit required from the Department of Mines, the operator of a disposal well must obtain a separate permit from the Department of Natural Resources under the provisions of Code § 20-5A-5(b)(7).

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-22-82.

Fred Burdette

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within thirty (30) days of receipt thereof:

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