

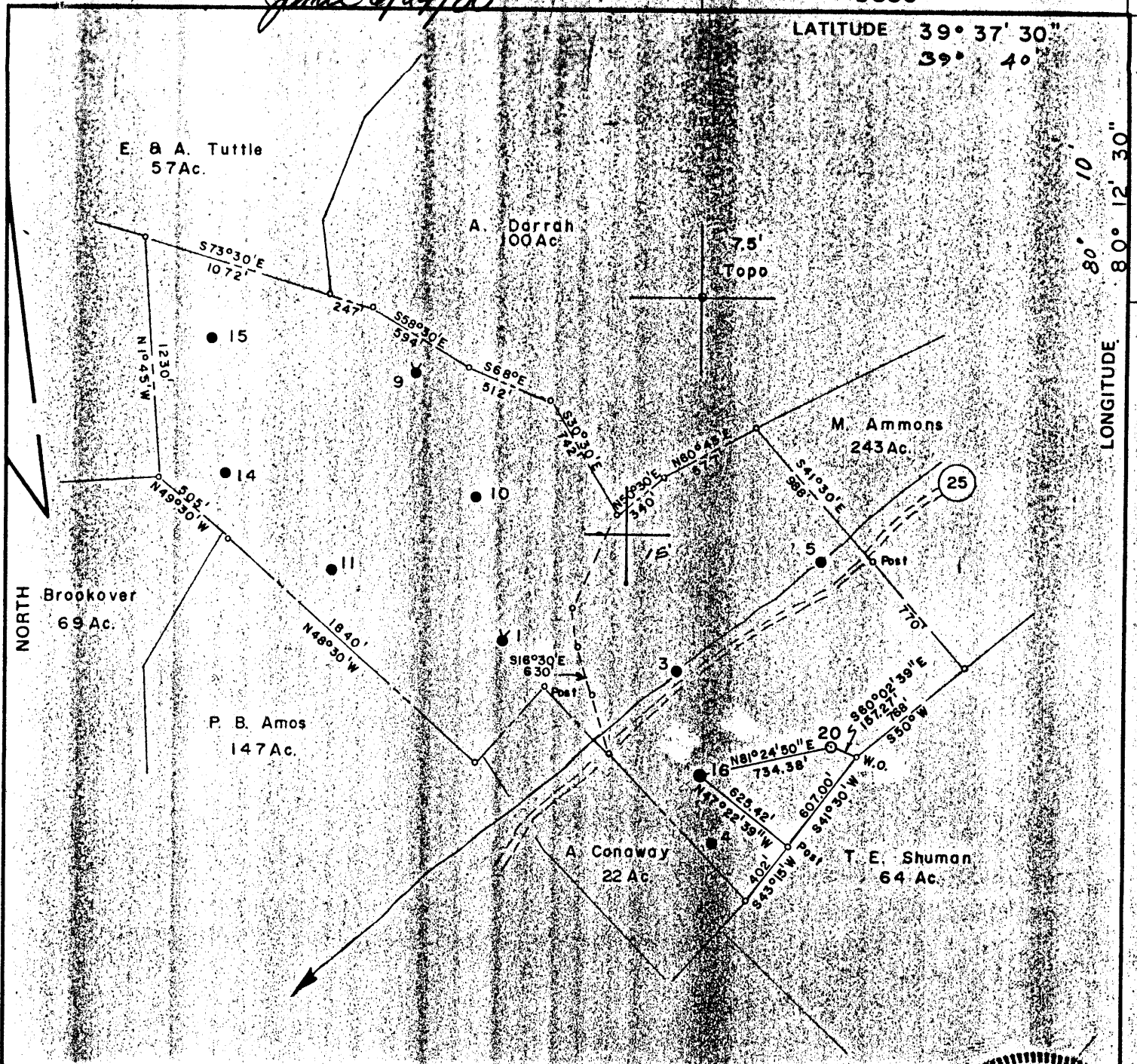
60 9/16

Janis 6/24/80

5889'

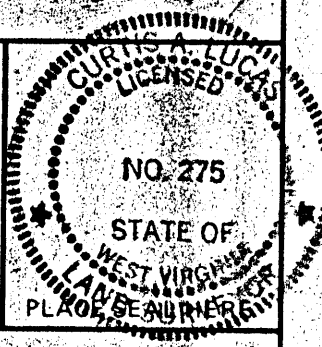
LATITUDE 39° 37' 30"
39° 40'

LONGITUDE 80° 12' 30"
80° 10'



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 1981
 FARM Andrew Conway NO. 20
 API WELL NO. 47-061-0633-41
 STATE West Virginia COUNTY Monongalia PERMIT P149

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

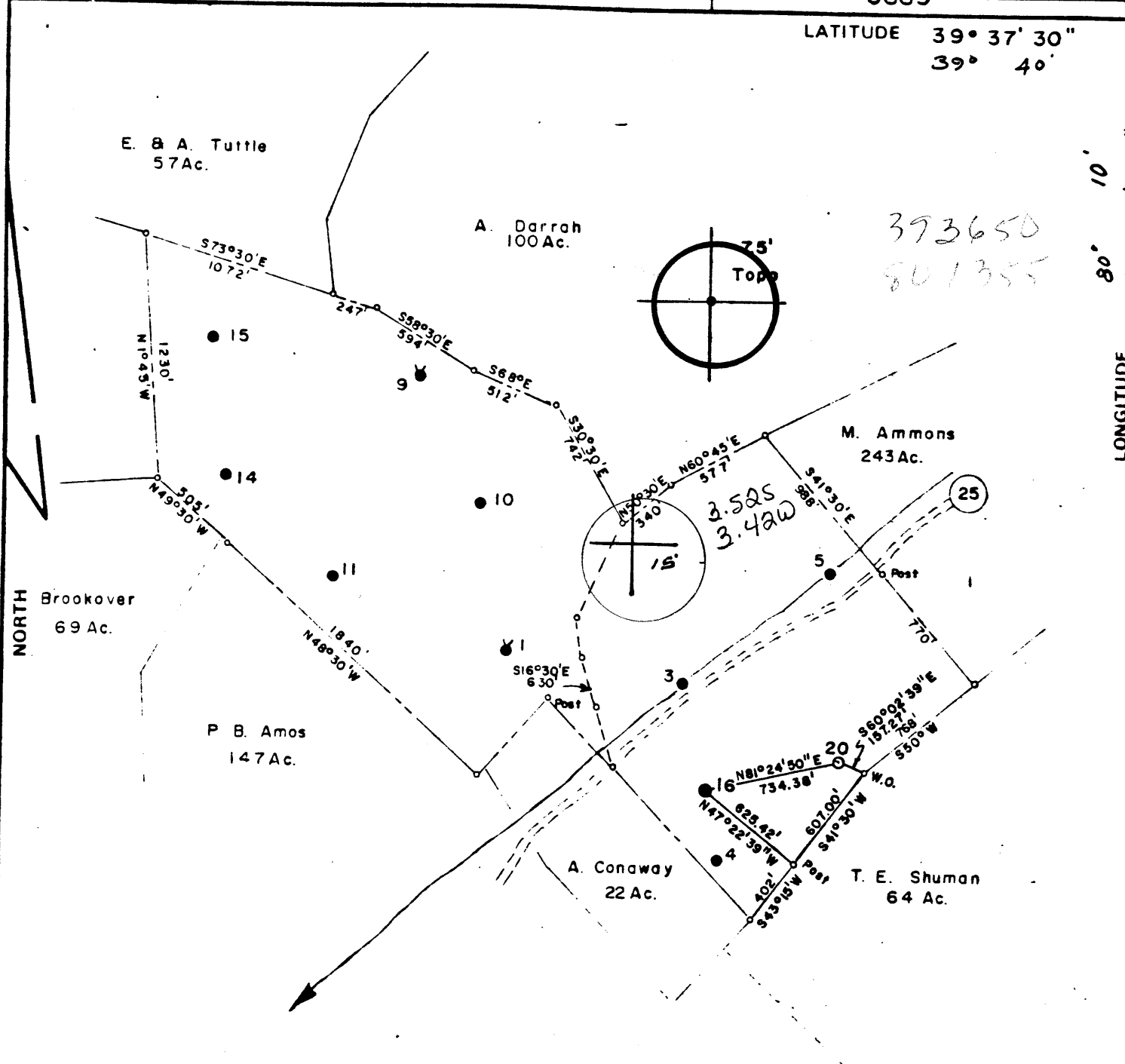
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1327.77' WATER SHED Bennefield Prong
 DISTRICT Clay COUNTY Monongalia
 QUADRANGLE Grant Town 7.5'
 SURFACE OWNER CLIFFORD O. YOST ACREAGE 21.03
 OIL & GAS ROYALTY OWNER APPALACHIAN ROYALTIES 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 2317'
 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

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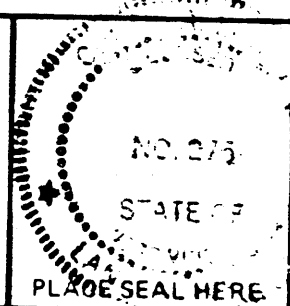
LATITUDE 39° 37' 30"
39° 40'

393650
801355



FILE NO. 920
 MAP N62E S05 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 19 81
 FARM Andrew Conway NO. 20
 API WELL NO. 47 - 061 - 0633-4
 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 1327.77' WATER SHED Bennefield Prong
 DISTRICT Clay COUNTY Monongalia
 QUADRANGLE Grant Town 7.5' Blacksburg WC
 SURFACE OWNER CLIFFORD O. YOST ACREAGE 21.03
 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 2317'
 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 64



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WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Granttown 7.5'

Permit No. 47-061-0633-Li

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

Company Pennzoil Company
 Address P. O. Box 1588, Parkersburg, WV 26101
 Farm Andrew Conaway Acres 185
 Location (waters) Bennefield Prong
 Well No. 20 Elev. 1327.77'
 District Clay County Monongalia
 The surface of tract is owned in fee by Clifford O. Yost
 Address Fairview, WV
 Mineral rights are owned by Appalachian Royalties
 Address P.O. Drawer 1917, Clarksburg, WV
 Drilling Commenced 10-6-81
 Drilling Completed 10-12-81
 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	867	867	370 sks.
7			
5 1/2			
4 1/2	2288	3388	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 BI Depth 2234

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			0	576		
Pittsburgh Coal			576	584		
Shale			584	642		
Pittsburgh Coal			642	666		
Shale			666	775		
Pittsburgh Coal			775	786		
Shale & Sand			786	1970		
Little Lime			1970	2000		
Big Lime			2000	2084		
Loyalhanna			2084	2150		
Pocono Big Injun			2150	2234		
Shale			2234	2289		
Total Depth				2289		

MAY 10 1982

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

Date Apr 29 1982

APPROVED Curtis A. Lucas Owner
 SUPERVISOR, SURVEYING & MAPPING

Date: August 26, 19 81

Operator's Well No. Andrew Conaway No. 20
API Well No. 47-061-633-21 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 2192 feet(top) to 2237 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									
Fresh water									Kinds
Coal	8 5/8	H40	20	X		880	880	To surface	Sizes
Intermediate									
Production	4 1/2	J55	9.5	X		2317	2317	75 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

(Continue on reverse side)

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 DEPARTMENT OF MINES
 SEP 17 1981

MECHANICAL INTEGRITY TEST

Test method: _____

The undersigned certifies that the test described above was made on
_____, 19____, and demonstrated the mechanical integrity
of the well.

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

APPLICATION FOR VARIANCE (IF ANY) FROM REGULATION 9.01(a)
[Specify purpose, necessity, and justification]

[Faint, illegible stamp or handwritten text]

Pennzoil Company
Well Operator
By Curtis A. Lucas
Its Curtis A. Lucas
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: 1327.77' Watershed: Bennefield Prong
District: Clay County: Monongalia Quadrangle: Granttown
GEOLOGICAL TARGET FORMATION: Big Injun Approximate depth 2192 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
Parkersburg, WV 26101

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

COAL OPERATOR Eastern Associated Coal Corp.
Address Granttown, WV

Acreage 185

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

SURFACE OWNER Clifford O. Yost
Address Fairview, WV

Acreage 21.03

Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

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DEPARTMENT OF MINES

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, 1989, 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) 343-3092

Pennzoil Company
Well Operator
By Curtis A. Lucas
Curtis A. Lucas
Its Supervisory, 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, 2317 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 _____

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		880	880	To surface	Sizes
Intermediate									
Production	4 1/2	J55	9.5	x		2317	2317	75 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE 1: Regulation 7.03 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-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, and (v) if applicable, the consent required by Code § 22-4-2a 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 § 20-2A-3(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 B. Russell
Deputy Director - Oil & Gas Division

Survey

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 § 22-4-27, 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 _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, 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: YOST, CLIFFORD Operator Well No.: CONAWAY 20

LOCATION: Elevation: 1327.77 Quadrangle: GRANT TOWN
District: CLAY County: MONONGALIA
Latitude: 4000 Feet South of 39 Des. 37 Min. 30 Sec.
Longitude: 5889 Feet West of 80 Des. 12 Min. 30 Sec.

Company: R. L. Wharton Ltd dba Ross & Wharton
9 1/2 Franklin St.
Buckhannon, WV 26201

Coal Operator
or Owner

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Asent: Mike Ross
Inspector: Donald Ellis
Permit Issued: 06/30/88

Coal Operator
or Owner

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur ss:

Larry Helmick and Thearl Clutter 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 R. L. Wharton Ltd, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 2nd day of August, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2289	2100	755' of 4 1/2"	1533
Gel	2100	0	0 8"	867
Cement	750	650		

Murray 8/19/88

Description of monument: 8" casing 30" above ground, vented

and that the work of plugging and filling said well was completed on the 3rd day of August, 1988.

And further deponents saith not.

Larry P. Helmick AUG 22 1988
Thearl Clutter

Sworn and subscribed before me this 11th day of August, 1988

Ilene Murray
Notary Public

