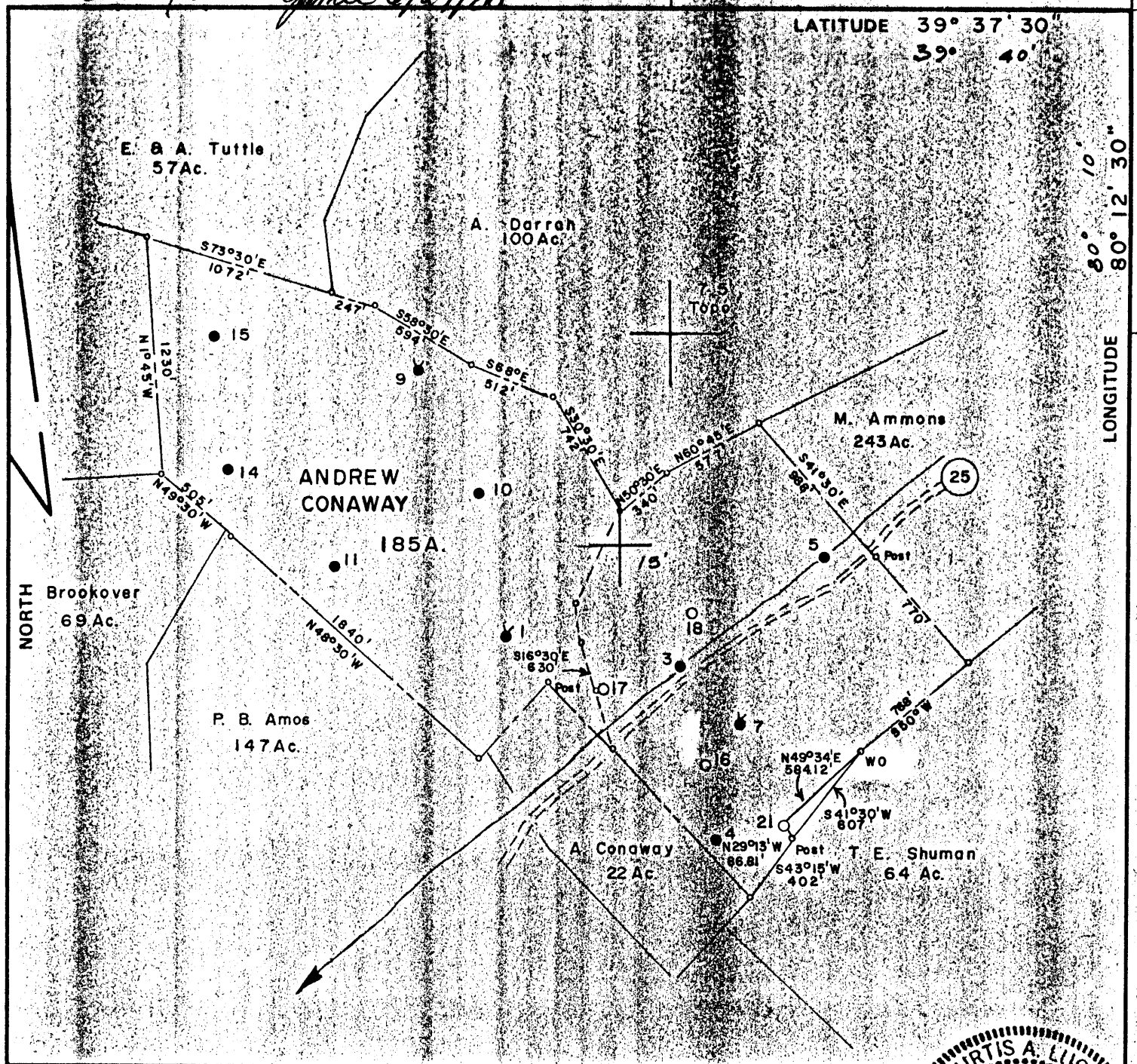


cb 8/81 Jamie 6/24/81

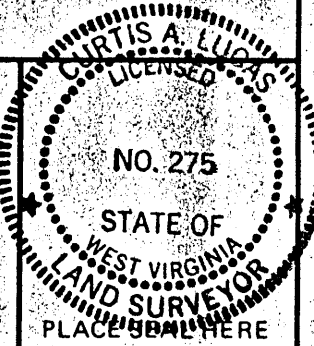
6350' LONGITUDE

LATITUDE 39° 37' 30"  
39° 40'



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

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 Aug 25, 1981  
 FARM Andrew Conaway NO. 21  
 API WELL NO. 47-061-0630-Li-Fra

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

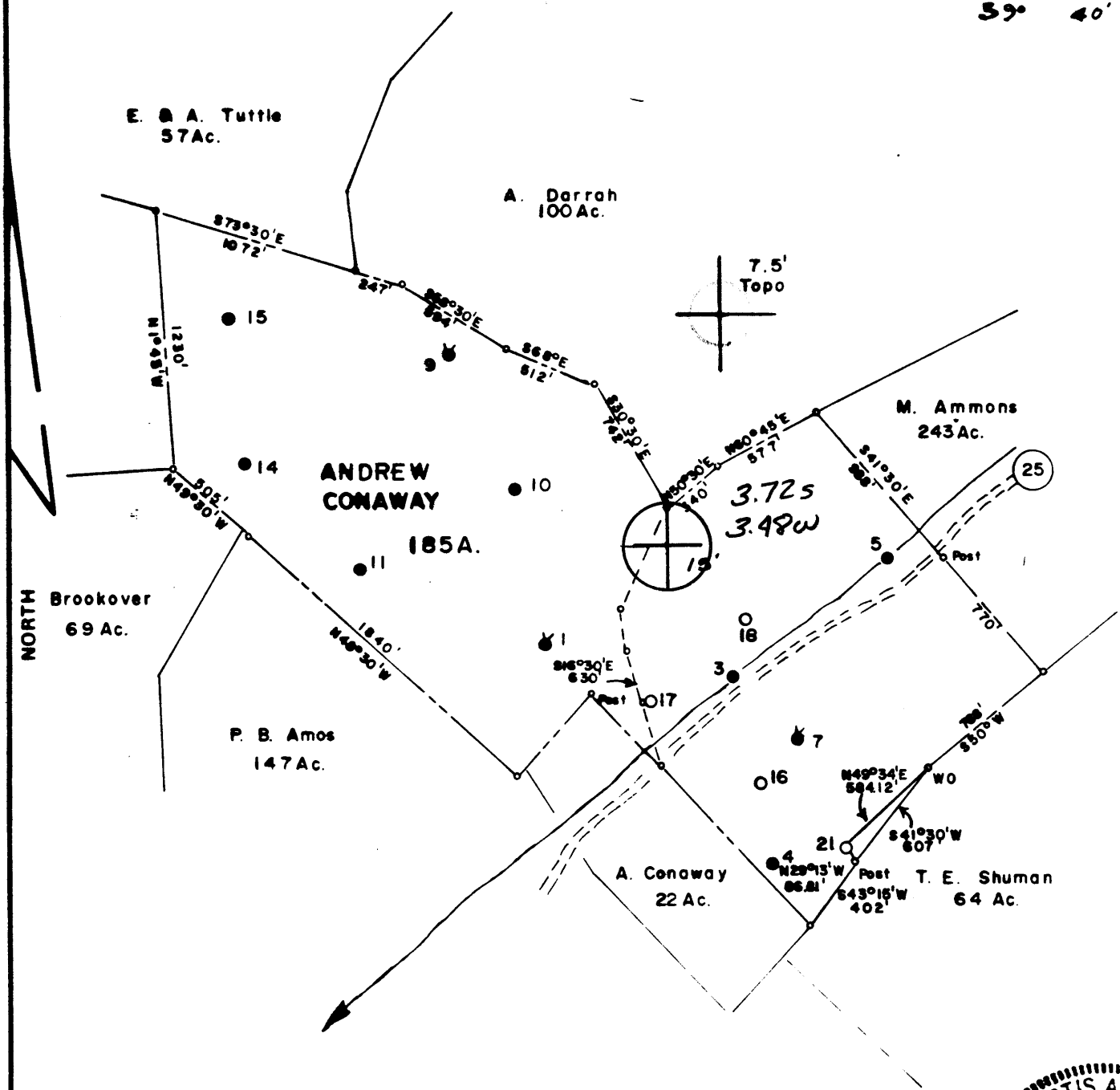
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1371.28 WATER SHED Bennefield Prong  
 DISTRICT Clay COUNTY Monongalia  
 QUADRANGLE Grant Town 7.5'  
 SURFACE OWNER CLIFFORD O. YOST ACREAGE 21.03  
 OIL & GAS ROYALTY OWNER 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 2366'  
 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

JUL 1 1981

MON-0630-LI-FRA

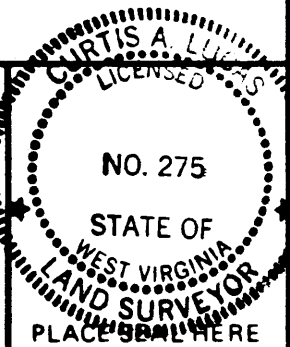
LATITUDE 39° 37' 30"  
59° 40'

LONGITUDE 80° 12' 30"  
10'



FILE NO. 920  
 MAP N62E S0S N11-12 E22  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 5000  
 PROVEN SOURCE OF ELEVATION A. Conaway 3, Elev. 1079.47 Fl.

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)

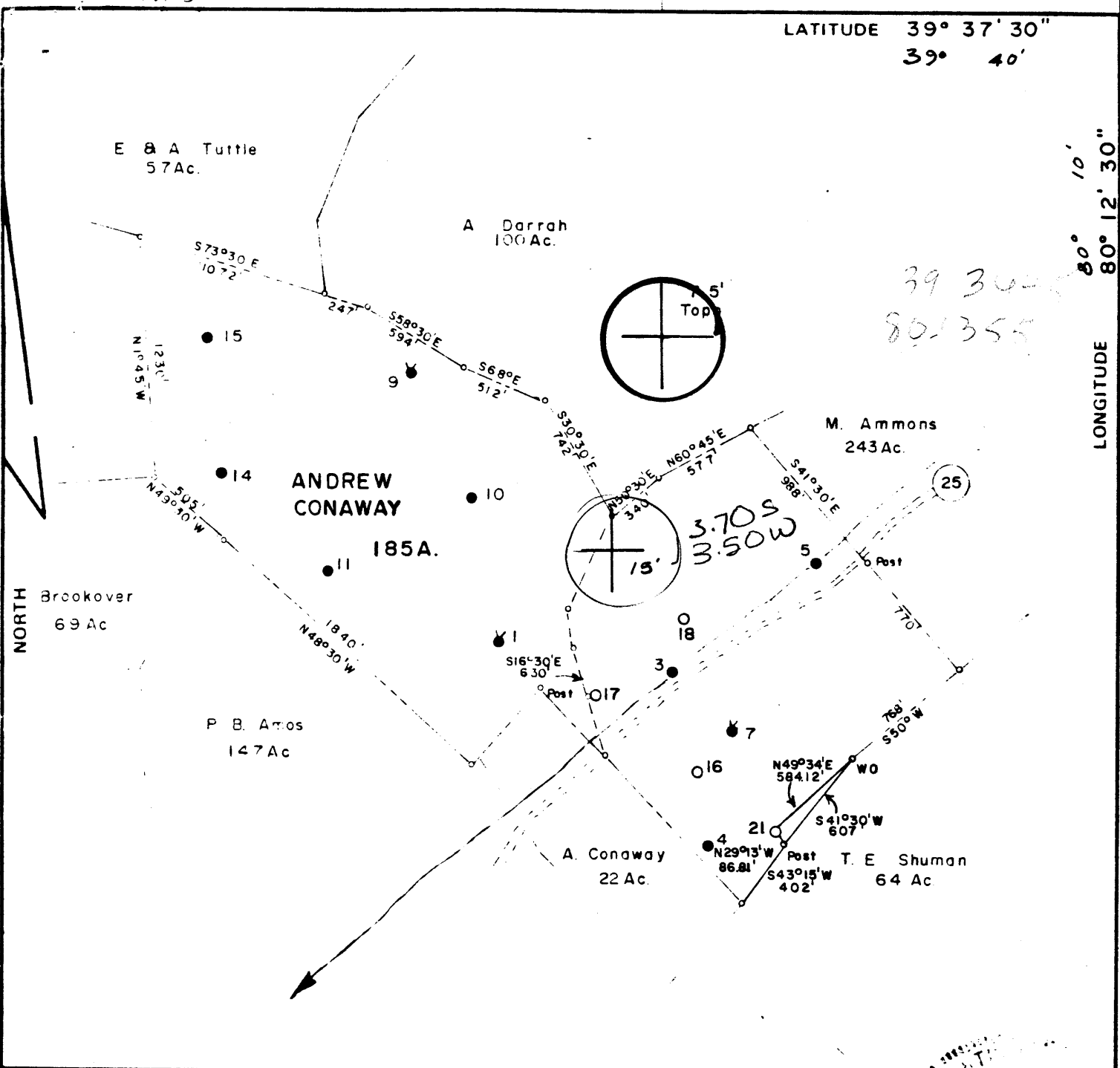


DATE Aug 25, 1981  
 FARM Andrew Conaway NO. 21  
 API WELL NO. 47 - 061 - 0630-LIF  
 STATE COUNTY PERMIT

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

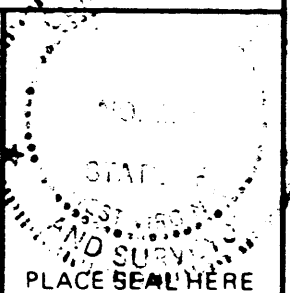
**FEB 21 1983**

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1371.28 WATER SHED Bonnefield Frong  
 DISTRICT Clay COUNTY Monongalia  
 QUADRANGLE Starb Town 7.5' Blacksville 15' 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 2366'  
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS  
 ADDRESS P. O. BOX 1888 ADDRESS P. O. BOX 1888  
PARKERSBURG, W. V. 26101 PARKERSBURG, W. V. 26101



FILE NO 920  
 MAP N62E SQS N11-12 E22  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 5000  
 PROVEN SOURCE OF ELEVATION A. Conaway 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 Aug. 25, 1981  
 FARM Andrew Conaway NO. 21  
 API WELL NO. 47 - 061 - 0630-41  
 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 1371.28 WATER SHED Bennefield Prong  
 DISTRICT Clay COUNTY Monongalia  
 QUADRANGLE Grant Town 7.5' Blacksville 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 X 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    8-0 FAIRVIEW - STATLER RUN SEP 28 1981  
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2366'  
 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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APR 30 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Granttown 7.5'

Permit No. 47-061-0630-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 26101  
Farm Andrew Conaway Acres 185  
Location (waters) Bennefield Prong  
Well No. 21 Elev. 1371.28  
District Clay County Monongalia  
The surface of tract is owned in fee by \_\_\_\_\_  
Mrs. Clifford O. Yost  
Address Fairview, WV  
Mineral rights are owned by Appalachian Royalties  
Address P.O. Drawer 1917, Clarksburg  
Drilling Commenced 10-21-81 WV  
Drilling Completed 10-26-81  
Initial open flow WIW cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

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	914.24	914.24	450 sks.
7			
5 1/2			
4 1/2	2318	2318	150 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand BT Depth 2205

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			0	274		
Pittsburgh Coal			274	278		
Shale & Sand			278	420		
Pittsburgh Coal			420	426		
Shale & Sand			426	720		
Pittsburgh Coal			720	726		
Shale & Sand			726	2002		
Little Lime			2002	2032		
Big Lime			2032	2108		
Loyalhanna			2108	2181		
Pocono <u>Big Injun</u>			2181	2205		
Shale			2205	2322		
Total Depth				2322		

MAY 10 1982

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

Date Apr 29 1982  
 PENN OIL CO  
 APPROVED: Gustaf A. Luccan Owner  
 Supervisor, Surveying & Mapping

Date: August 26, 1981

Operator's Well No. Andrew Conaway

API Well No. 47-061-630-21  
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 2241 feet(top) to 2286 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

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**AUG 28 1981**

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

**OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES**

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		925	925	to surface	
Intermediate									Depths set
Production	4 1/2	J55	9.5	X		2366	2366	75 sacks	Perforations:
Tubing									Top Bottom
Liners									

(Continue on reverse side)







PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED IN  
FORM IV-15 AND/OR FORM IV-17 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN): \_\_\_\_\_  
Address: \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2322 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									
oil									Sizes
intermediate									
production						See Well Record			Depths set
lining									
liners									Perforations:
									Top Bottom

1.1: 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 plan 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 used or drilling 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.

1.2: 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-3(b)(7).

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR Fracturing. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 10-14-83  
BY [Signature]

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 location, the well location has been added to the mine map. The undersigned has no objection to 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.

\_\_\_\_\_, 19\_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

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]

\_\_\_\_\_  
Pennzoil Company  
Well Operator  
By Curtis A. Lucas  
its Curtis A. Lucas  
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, 2366 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 \_\_\_\_\_

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		925	925	To surface	Sizes
Intermediate									
Production	4 1/2	J55	9.5	X		2366	2366		Depths set
Tubing									
Liners									Perforations:
									Top Bottom

**NOTE 1:** Regulation 7.32 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 § 22-4-3a 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 Liquid Injection. This permit shall expire if

operations have not commenced by 5-16-82.

  
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 \_\_\_\_\_

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPPLICATE, 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 21

LOCATION: Elevation: 1219.96 Quadrangle: GRANT TOWN  
District: CLAY County: MONONGALIA  
Latitude: 4500 Feet South of 39 Deg. 37 Min. 30 Sec.  
Longitude: 6350 Feet West of 80 Deg. 12 Min. 30 Sec.

Company: R.L. Wharton Ltd, dba Ross & Wharton Gas Coal Operator \_\_\_\_\_  
9 1/2 Franklin St. or Owner \_\_\_\_\_  
Buckhannon, WV 26201

Agent: Mike Ross Coal Operator \_\_\_\_\_  
Inspector: Donald Ellis or Owner \_\_\_\_\_  
Permit Issued: 06/30/88

**RECEIVED**  
AUG 15 1988

AFFIDAVIT

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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 4th day of August, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2169	2069	930 of 4 1/2"	1388
Gel	2069	0	0 of 8 1/2"	914
Cement	930	830		

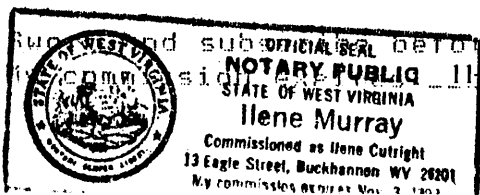
*Murray* 8/19/88

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

and that the work of plugging and filling said well was completed on the 5 day of August, 1988.

And further deponents saith not.

*Larry Helmick*  
*Thearl Clutter* AUG 22 1988  
*Ilene Murray*  
Notary Public



Subscribed and sworn to before me this 11 day of August, 1988.