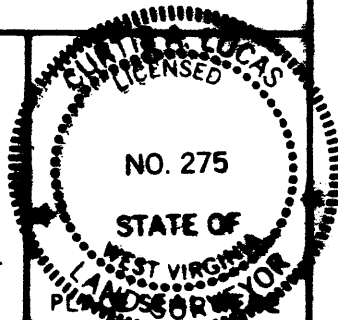


FILE NO. 1661  
 MAP 42 30S 40 W 35  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION J.A. White 9, Elev. 685.33'

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 May 22 1981  
 FARM J.A. White NO. 12  
 API WELL NO. 47-087-3438  
 STATE COUNTY PERMIT

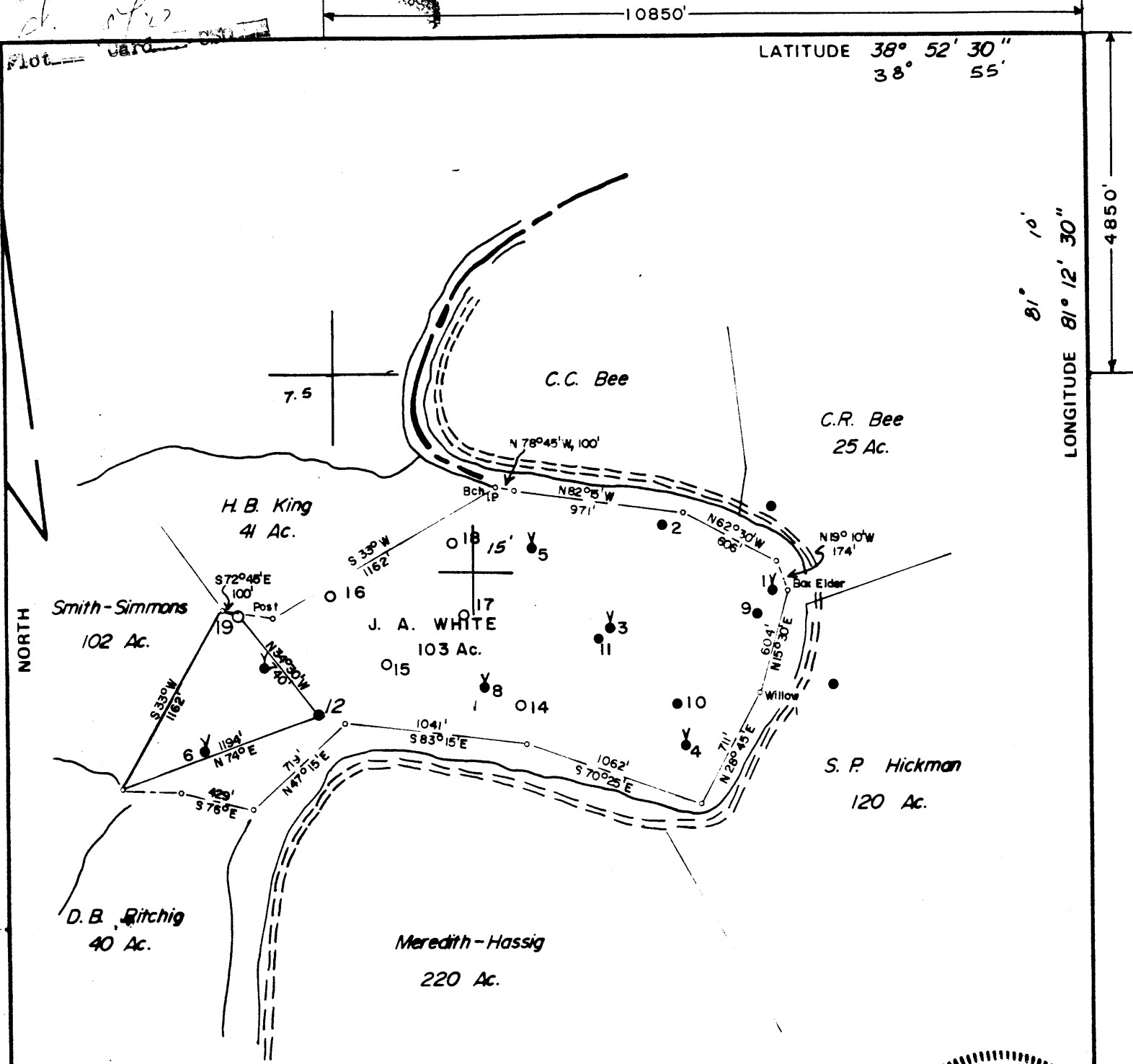
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 913.80' WATER SHED New River  
 DISTRICT Spencer COUNTY  Boone  
 QUADRANGLE Arnoldsburg 7.5' 219 & 151 WC4  
 SURFACE OWNER Doris Brown ACREAGE 108  
 OIL & GAS ROYALTY OWNER Helen Lortner LEASE ACREAGE 108  
 LEASE NO. 81222-52  
 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 None ESTIMATED DEPTH 231'  
 WELL OPERATOR PERZON OIL COMPANY DESIGNATED AGENT John A. Cline  
 ADDRESS P.O. Box 1000 ADDRESS P.O. Box 1000  
1573 PARSONS, W.V. 26101 PARSONS, W.V. 26101

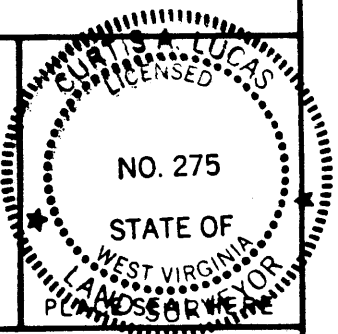
JAN 28 1985

WELL NO. 5738



FILE NO. 1661  
 MAP 42 SQS 540 W 36  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION J.A. White 9, Elev. 685.33'

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



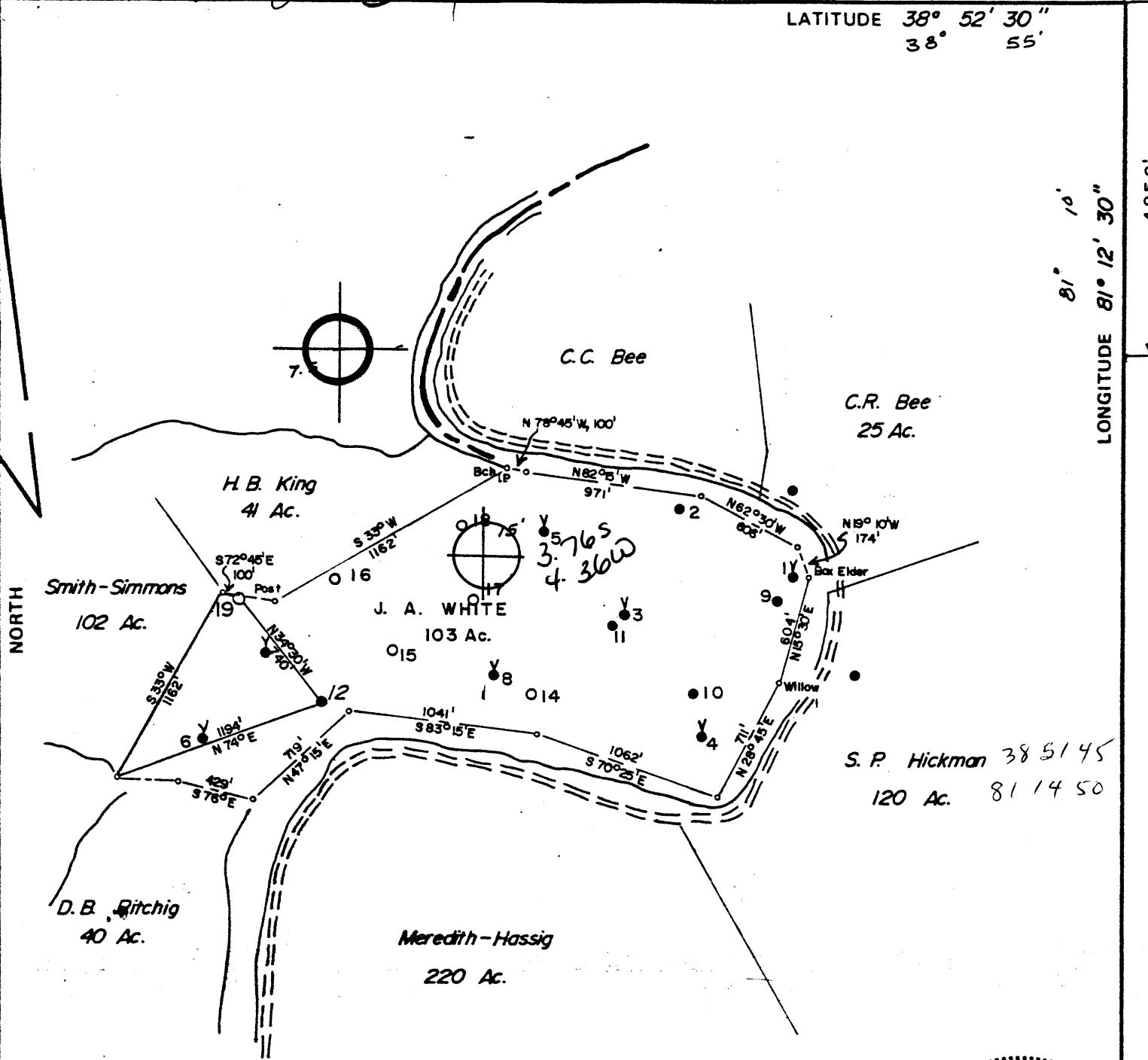
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE May 22, 19 81  
 FARM J. A. White NO. 19  
 API WELL NO. 47 - 087 - 3438 FRA  
 STATE COUNTY PERMIT

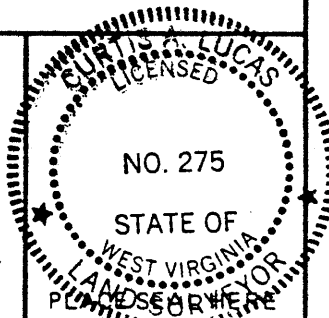
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 913.80' WATER SHED West Fork Little Kanawha River  
 DISTRICT Spencer COUNTY Roane  
 QUADRANGLE Arnoldsburg 7.5'  
 SURFACE OWNER Doyle Braden ACREAGE 103  
 OIL & GAS ROYALTY OWNER Helen Lowther LEASE ACREAGE 103  
 LEASE NO. 81222-50  
 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 Berea ESTIMATED DEPTH 2513'  
 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



FILE NO. 1661  
 MAP 42 SQS 540 W 36  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION J.A. White 9, Elev. 685.33'

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 May 22, 1981  
 FARM J. A. White NO. 19  
 API WELL NO. 47 - 087 - 3438  
 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 913.80' WATER SHED West Fork Little Kanawha River  
 DISTRICT Spencer COUNTY Roane  
 QUADRANGLE Arnoldsburg 7.5' 45 WC  
 SURFACE OWNER Doyle Braden ACREAGE 103  
 OIL & GAS ROYALTY OWNER Helen Lowther LEASE ACREAGE 103  
 LEASE NO. 81222-50  
 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 Berea ESTIMATED DEPTH 2513'  
 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

JUN 4 1981



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NOV 23 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Arnoldsburg 7.5'

Permit No. 47-087-3438

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

Company Pennzoil Company  
Address P.O. Box 1588, Parkersburg, WV 26101  
Farm J. A. White Acres 103  
Location (waters) West Fork of Little Kanawha  
Well No. 19 Elev. 913.80  
District Spencer County Roane  
The surface of tract is owned in fee by \_\_\_\_\_  
Doyle & Ilona Braden  
Address P.O. Box 43, Charleston, WV 25305  
Mineral rights are owned by Helen Louise Lowther  
Address 1420 Sattes Circle, Nitro, WV  
Drilling Commenced 8-8-81  
Drilling Completed 8-13-81  
Initial open flow 5 M cu. ft. 3.5 bbls.  
Final production 5M cu. ft. per day 3.5 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	436	436	215 sks.
7			
5 1/2			
4 1/2	2523	2523	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 8-26-81 w/500 gal. 15% HCL, 100BW, 1000# 20/40 sd

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Berea Depth 2478

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	904		
Shale			904	1064		
Sand			1064	1092		
Shale & Sand			1092	1892		
Little Lime			1892	1912		
Sand			1912	1930		
Big Lime			1930	2058		
Big Injun			2058	2076		
Pocono Shale			2076	2460		
Berea			2460	2478		
Shale			2478	2535		
Total Depth				2535		

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

Date Nov 20 1981  
 APPROVED PENN OIL COMPANY  
Curtis A. Lucas Owner  
 Supervisor Surveying & Mapping

- 1) Date: December 14, 1984
- 2) Operator's Well No. J. A. White No. 19
- 3) SIC Code \_\_\_\_\_
- 4 API Well NO. 47 - 087 - 3438-LI  
State County Permit
- 5. UIC Permit No. \_\_\_\_\_

**RECEIVED**

DEC 17 1984

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

for the  
OIL & GAS DIV. OFFICE OF OIL AND GAS, DEPARTMENT OF MINES, AND FOR  
DEPT. OF MINES (CLASS II WELLS ONLY)  
THE DIVISION OF WATER RESOURCES, DEPARTMENT OF NATURAL RESOURCES

- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_
- 7) LOCATION: Elevation: 913.80 Watershed: West Fork of Little Kanawha River  
District: Spencer County: Roane Quadrangle: Arnoldsburg 7.5'
- 8) WELL OPERATOR Pennzoil Company 9) DESIGNATED AGENT James A. Crews  
Address P.O. Box 1588 Address P.O. Box 1588  
Parkersburg, West Virginia 26102 Parkersburg, WV
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Homer H. Dougherty 11) DRILLING CONTRACTOR:  
Address Linden Rt., Box 3-A Name \_\_\_\_\_  
Looneyville, WV 25259 Address \_\_\_\_\_
- 12) PROPOSED WELL WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ / Convert  /  
Other physical change in well (specify) \_\_\_\_\_
- 13) GEOLOGICAL TARGET FORMATION, Berea Depth 2460 feet(top) to 2478 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2535 ft.
- 15) Approximate water strata depths; Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 16) Approximate coal seam depths: \_\_\_\_\_
- 17) Is coal being mined in the area? Yes \_\_\_\_\_ / No  /
- 18) Virgin reservoir pressure in target formation 80 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 1200 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 2 Bbls/hr Bottom hole pressure 1782.5
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: \_\_\_\_\_  
Fresh Water, Bactericides
- 22) FILTERS (IF ANY): Coal
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: \_\_\_\_\_

24) 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	<u>8-5/8</u>					<u>438</u>	<u>438</u>	<u>215 sks.</u>	
Coal									Sizes
Intermediate									
Production	<u>4-1/2</u>					<u>2523</u>	<u>2523</u>	<u>75 sks.</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from J. A. White, et ux  
by deed \_\_\_\_\_ / lease  / other contract \_\_\_\_\_ / dated September 12, 1902, of record in the  
Roane County Clerk's office in Lease Book 5 at page 377

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-087-3438-LI

January 24 19 85  
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, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. 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.)

The permitted work is as described in the Notice and Application, plat, and (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires January 24, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>M.J.</u>	Casing: <u>M.J.</u>	Fee: <u>18306</u>
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Theodore Strait  
Administrator, Office of Oil and Gas

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

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		" "
Total depth reached		" "
Well Record received		" "
Reclamation completed		" "
OTHER INSPECTIONS		
Reason:		
Reason:		



1) Date: August 26, 19 83  
 2) Operator's Well No. J. A. White #19  
 3) API Well No. 47 - 087 - 3438-FRAC  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 913.80 Watershed: West Fork of Little Kanawha River  
 District: Spencer County: Roane Quadrangle: Arnoldsburg 7.5'
- 6) WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews  
 Address P. O. Box 1588 Address P. O. Box 1588  
Parkersburg, WV 26104 Parkersburg, WV 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Homer H. Dougherty  
 Address Linden Rt. Box 3-A  
Looneyville, WV 25259
- 9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill <sup>deeper</sup>  / Stimulate  /  
 Plug off old formation  / Personal new information  /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Berea
- 12) Estimated depth of completed well, 2535 feet
- 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No

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 AUG 29 1983

OIL & GAS DIVISION  
 DEPT. OF MINES

15) 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		Kinds	Sizes
Conductor										
Fresh water										
Coal										
Intermediate										
Production						See Well Record				Depths set
Tubing										
Liners										Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-087-3438-FRAC Date October 24, 1983

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, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires October 24, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bound: <u>BB</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>15766</u>
------------------	--	--------------------------	----------------------------	-------------------

Margaret J. Hass  
 Administrator, Office of Oil and Gas

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





Well No. 19  
Farm J. A. White  
API # 47-087-3438  
Date May 22, 1981

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil x / Gas    /  
(If "Gas", Production    / Underground storage    / Deep    / Shallow    /

LOCATION: Elevation: 913.80' Watershed: West Fork of Little Kanawha  
District: Spencer County: Roane Quadrangle: Arnoldsburg 7.5'

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

DESIGNATED AGENT Mr. James A. Crews  
Address P. O. Box 1588  
Parkersburg, WV 26101

OIL AND GAS ROYALTY OWNER Helen Louise Lowther  
Address 1420 Sattes Circle  
Nitro, WV 25143  
Acreage 103

COAL OPERATOR NO COMMERCIAL COAL  
Address   

SURFACE OWNER Doyle & Ilene Braden  
Address P. O. Box 43  
Charleston, WV 25305  
Acreage   

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME     
Address     
NAME     
Address     
MAY 26 1981

FIELD SALE (IF MADE) TO:  
NAME     
Address   

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME     
Address     
OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Richard Morris  
Address Grantsville, WV  
Telephone 354-7259

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed    / lease x / other contract    / dated Sept. 12 1902, to the undersigned well operator from J. A. White.

(If said deed, lease, or other contract has been recorded:)

Recorded on   , 19  , in the office of the Clerk of County Commission of Roane County, West Virginia, in Lease Book at page 377. A permit is requested as follows:

PROPOSED WORK: 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.

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 fifteen (15) days after receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

**BLANKET BOND**

PENNZOIL COMPANY  
Well Operator  
By: Curtis A. Luman  
Its: Supervisor, Surveying & Mapping

(Revised 3-81)

PROPOSED WORK ORDER

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

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

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Berea  
Estimated depth of completed well 2513 feet. Rotary X / Cable tools     /  
Approximate water strata depths: Fresh,            feet; salt,            feet.  
Approximate coal seam depths:             
Is coal being mined in this area: Yes     / No X /

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 Drill-ling		
Conductor								Kinds
Fresh water	8-5/8	H40	20	X		384	384	Cement to surface
Coal								Sizes
Intermed.								
Production Tubing	4-1/2	J55	9.5	X		2519	2519	75 sks. Depths set
Liners								Perforations: Top Bottom

*NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, 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-2 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-2 filed in connection therewith.*

**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 1-28-82.

*[Signature]*  
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 fifteen (15) 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 regularions.

Date: \_\_\_\_\_, 19 \_\_\_\_.

By: \_\_\_\_\_

Its: \_\_\_\_\_

WR 35  
Rev (5/01)

DATE: 11/18/2008  
API#: 47-087-03438 -F

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

REVISED

*AS*

Farm Name: Triad Holdings Operator Well No. J.A. White #19

LOCATION: Elevation: 913.80' Quadrangle: Arnoldsburg

District: Spencer County: Roane

Latitude 4,900 Feet South of 38 Deg. 52 Min. 30 Sec.

Longitude 10,800 Feet West of 81 Deg. 12 Min. 30 Sec.

Existing Casing

Company:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Triad Resources, Inc.				
Address: P.O. Box 430 Reno, Ohio 45773	7"	436'	436'	215 sks
Agent: Kimberly Arnold	4 1/2"	2523'	2523'	75 sks
Inspector: Ed Gainer				
Date Permit Issued: 9/9/08				
Date Well Work Commenced: 9/16/08				
Date Well Work Completed: 10/11/08	Plugged back existing 4 1/2" casing covering all the old perforations to 2220'. Find a hole in the 4 1/2" casing at 1150'. Ran 2 7/8" tubing with a wide mouth frac packer set at 1991'. Perforated and stimulated Big Injun formation. Place well in production.			
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): PBSD = 2220'				
Fresh Water Depth (ft.): not encountered				
	2 7/8"		1991'	Set on Packer
Salt Water Depth (ft.): not encountered				
	1 1/2"		2103'	
Is coal being mined in area (N/Y): No				
Coal Depths (ft.): various stringers				

OPEN FLOW DATA

Producing formation	<u>Big Injun</u>	Pay zone depth (ft)	<u>2058'-2076'</u>
Gas: Initial open flow	<u>        </u> MCF/d	Oil: Initial open flow	<u>        </u> Bbl/d
Final open flow	<u>25</u> MCF/d	Final open flow	<u>6</u> Bbl/d
Time of open flow between initial and final tests			<u>        </u> Hours
Static rock Pressure	<u>175</u> psig (surface pressure) after		<u>72</u> Hours
Second Producing formation	<u>        </u>	Pay zone depth (ft)	<u>        </u>
Gas: Initial open flow	<u>        </u> MCF/d	Oil: Initial open flow	<u>        </u> Bbl/d
Final open flow	<u>        </u> MCF/d	Final open flow	<u>        </u> Bbl/d
Time of open flow between initial and final tests			<u>        </u> Hours
Static rock Pressure	<u>        </u> psig (surface pressure) after		<u>        </u> Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG, WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

*Rocky Roberts*  
By: Rocky Roberts  
Date: 11/18/08

FEB 13 2009

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