

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS SOUTH OF LEASE. ELEV. = 1097'

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) Mark C. Echard  
 MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490



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



DATE JULY 17, 1991  
 OPERATOR'S WELL NO. FIVE  
 API WELL NO. 47-095-1477  
 STATE WEST VIRGINIA COUNTY TYLER PERMIT 1477

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 1061 WATER SHED JEFFERSON RUN  
 DISTRICT MC ELROY S COUNTY TYLER  
 QUADRANGLE SHIRLEY 7.5' W Union CC  
 SURFACE OWNER DEWAYNE H. JAMES ACREAGE 149.06 OF 257  
 OIL & GAS ROYALTY OWNER DEWAYNE H. JAMES LEASE ACREAGE 257  
 LEASE NO. \_\_\_\_\_  
 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 2100'±  
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, W.VA. 26320 280 ALMA, W.VA. 26320

JUL 22 1991

OCT 18 1991

DEPT. OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

18-Jul-91  
API # 47- 95-01477

Reviewed TTAG  
Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: JAMES, DEWAYNE

Operator Well No.: D. JAMES #5

LOCATION: Elevation: 1061.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER  
Latitude: 9200 Feet South of 39 Deg. 25Min. 0. Sec.  
Longitude 10390 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP  
P. O. BOX 99  
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/18/91  
Well work Commenced: 07-23-91  
Well work Completed: 07-30-91

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2163  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) 1870

Is coal being mined in area (Y/N)?<sup>N</sup>  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	150	131	50 sks
5 1/2	1950	1820	365 sks
3 1/2	2163	2120	50 sks

OPEN FLOW DATA

Producing formation Greenbrier Pay zone depth (ft) 2000  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 260 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 48 Hou:s  
Static rock Pressure 180 psig (surface pressure) after 24 Hou:s

Second producing formation Pocono Pay zone depth (ft) 2060  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow \* MCF/d Final open flow \* Bbl/d  
Time of open flow between initial and final tests \* Hou:s  
Static rock Pressure \* psig (surface pressure) after \* Hou:s  
\* Commingled two zones

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.

For: DRILLING APPALACHIAN CORP.

By: Kenneth Mason  
Date: 10-1-91

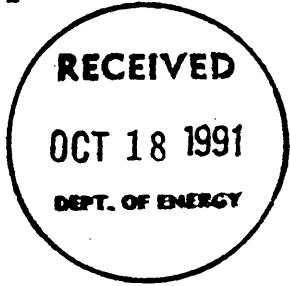
OCT 27 1991

Perforated  
Perforated  
Frack with

Greenbrier 2,000 → 2006 with 6 holes  
Pocono 2,059 → 2082 with 8 holes  
5,000# 80/100, 35,000# 20/40, 800 gal acid  
75,000 scf N<sub>2</sub>

Formation

Dirt	0	-	15
Sand	15	-	25
Shale	25	-	265
Sand	265	-	275
Shale	275	-	1875
Lime	1875	-	1885
Shale	1885	-	1905
Lime	1905	-	1965
Sand	1965	-	2163



Electric Log Tops

Big Lime	1906
Big Injun	1962

12626

OCT 27 1991

095-1477  
Issued 07/18/91

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Expires 07/18/93

- 031A
- 1) Well Operator: DRILLING APPALACHIAN CORPORATION
  - 2) Operator's Well Number: D. JAMES #5
  - 3) Elevation: 1061'
  - 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
  - 5) Proposed Target Formation(s): <sup>371</sup> BIG INJUN
  - 6) Proposed Total Depth: 2100± feet
  - 7) Approximate fresh water strata depths: \_\_\_\_\_
  - 8) Approximate salt water depths: \_\_\_\_\_
  - 9) Approximate coal seam depths: \_\_\_\_\_
  - 10) Does land contain coal seams tributary to active mine? Yes  / No  /
  - 11) Proposed Well Work: DRILL, STIMULATE, PERFORATE NEW FORMATION
  - 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	8-5/8"	J-55	20#	100'	100'	CTS
Fresh Water						D.K. U M.
Coal						
Intermediate	5-1/2"	J-55	15.5#	1824'	1824'	38CSR18-11.2 38CSR18-11.3
Production	3-1/2"	J-55	9.4#	2100'	2100'	38CSR18-11.1
Tubing						
Liners						

12633

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

**RECEIVED**  
JUL 18 1991

For Division of Oil and Gas Use Only **DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY**

7086  
20

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent-  
(Type)

**RECEIVED**  
JUL 18 1991

- 1) Date: July 17, 1991
- 2) Operator's well number D. JAMES #5
- 3) API Well No: 47 - 095 - 1477  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Dewayne James  
Address HCR 74, Box 11  
Wilbur, WV 26320
  - (b) Name ---  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas. OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2).

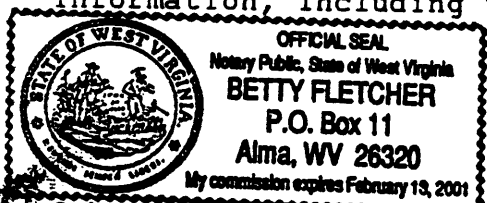
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.



Well Operator DRILLING APPALACHIAN CORPORATION  
 By: Kenneth R. Mason  
 Its: President  
 Address P. O. Box 99  
Alma, WV 26320  
 Telephone (304) 758-4638

Subscribed and sworn before me this 17th day of July, 19 91

My commission expires \_\_\_\_\_ Betty Fletcher Notary Public

2/13/2001