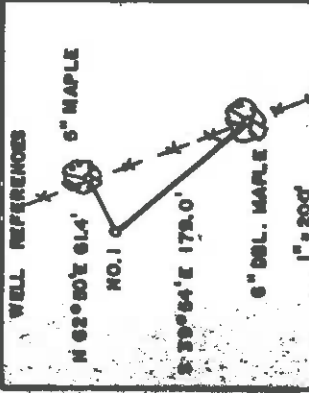
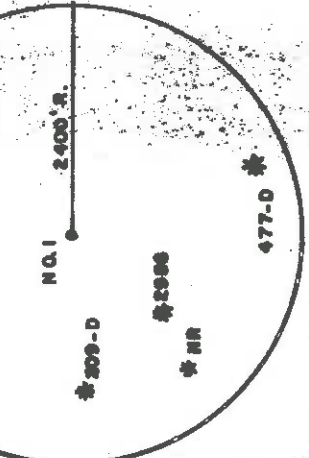
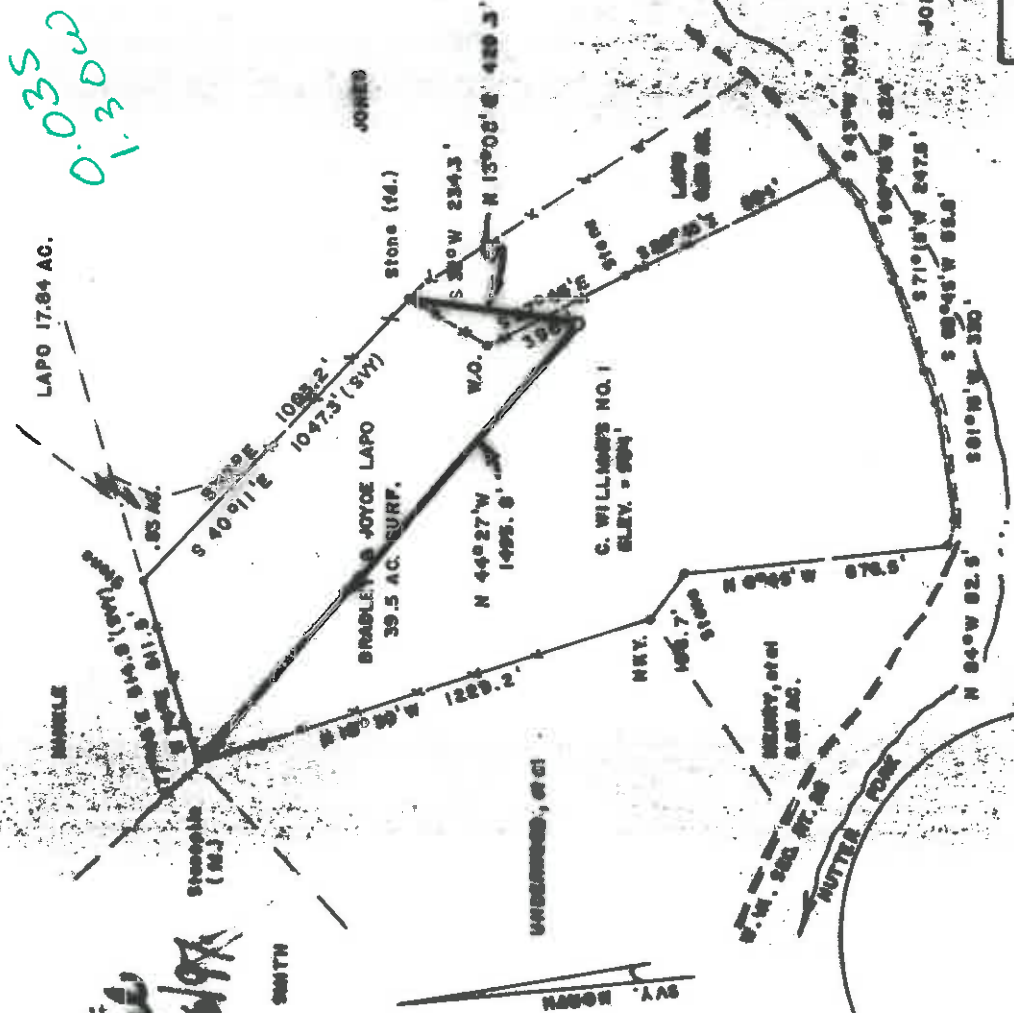


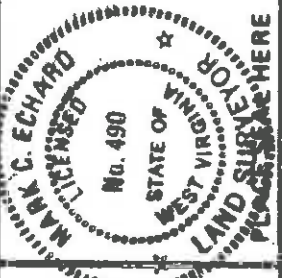
# C. WILLIAMS LEASE 39.5 AC.

7.5' topog. loc. LATITUDE 39° 20' 00" LONGITUDE 80° 45' 00"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS  
 WEST OF LEASE ELEV. = 801'

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.S. 490



WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506



DATE NOVEMBER 21, 19 97  
 OPERATOR'S WELL NO. C. WILLIAMS NO. 1  
 API WELL NO. 47-017  
 STATE WEST VIRGINIA COUNTY DOUGHRIDGE PERMIT 04447

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 994 WATER SHED HUTTER FORK  
 DISTRICT WEST UNION COUNTY DOUGHRIDGE  
 QUADRANGLE WEST UNION 7.5 ACREAGE 39.5  
 SURFACE OWNER BRADLEY JOYCE LAPO  
 OIL & GAS ROYALTY OWNER CHARLES WILLIAMS, et al LEASE ACREAGE 39.5

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 RENSON ESTIMATED DEPTH 5200'  
 WELL OPERATOR DAC DESIGNATED AGENT KENNETH MOSON  
 ADDRESS P.O. BOX 99 ALMA, WV 26320

DEC 19 1997

6-6 91

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JAN 23 1998

State of West Virginia  
Division of Environmental Protection  
Section of Oil and GasPermitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm Name: Williams, Charles  
 Location: Elevation: 984'  
 District: West Union  
 Latitude: 6790 Feet South of  
 Longitude: 110 Feet West of  
 Operators Well No.: Williams #1  
 Quadrangle: West Union 7.5'  
 County: Doddridge  
 39 Deg. 39min. 20sec.  
 80 Deg. 45 min. 00sec.

Company: Drilling Appalachian Corp  
 P. O. Box 99  
 Alma, WV 26320

Agent: Kenneth Mason

Inspector: Mike Underwood

Permit Issued: 10/23/97

Well Work Commenced: 12/17/97

Well Work Completed: 12/19/97

Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_Total Depth (feet) 5126'Fresh Water Depths (ft) 100'Salt Water Depths (ft) 1221'Is coal being mined in area (Y/N) NCoal Depths (ft): N/A'

casing tubing	used in drilling	left in well	cement fill up sks
11 3/4	150	126	75
8 5/8	1148	1103	300
4 1/2	5126	5082	610

## OPEN FLOW DATA

Producing formation BensonPay zone depth (ft) 4975-4979Gas: Initial open flow 58 MCF/DOil: Initial open flow 0 BBL/DFinal open flow 375 MCF/DFinal open Flow show BBL/DStatic Rock Pressure \_\_\_\_\_ psig (surface pressure) after 48 HoursSecond producing formation GordonPay zone depth (ft) 2681-2691Gas: Initial open flow \* MCF/DOil: Initial open flow 0 BBL/DFinal open flow \* MCF/DFinal open flow 0 BBL/Dstatic rock pressure \* psig (surface pressure) after \* Hours

For: Drilling Appalachian Corp.

By:



Date: 01-15-98

JAN 30 1998

Stage	Formation	Perfs	Sand	N2
01-08-98	Williams #1			
1	Benson	4986-4890 15	300 sks	277,000 scf
2	Gordon	2685-2681 16	300 sks	224,000 scf

ISIP = 1692#  
5 min = 1612#

### Drillers Log

Formation	Top	Bottom	Formation	Depth top
fill	0	10	Big Lime	1919
clay	10	80	Big Injun	1975
Sd/Sh	80	860	Berea	2444
RR	860	918	Gordon	2647
Sd/Sh	918	1055	Benson	4975
Sd	1055	1145		
Sd/Sh	1145	1221	hole damp 1221'	
Sd	1221	1291		
Sd/Sh	1291	1623		
Lime	1623	1848		
Sh	1848	1914		
Lime	1914	2006		
Sd	2006	2391	gas ck @ 2168 = no show	
Sh	2391	4973	gas ck @ 2691 = no show	
Sd	4973	4980	gas ck @ 5001 = 30/10 in 1' w/w	
TD	4980	5126	gas ck @ TD = 30/10 in 1" w/w	

### Electric Log Tops

017-4417

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (8) 671

Operator's Well Number: C. WILLIAMS #1 3) Elevation: 984'

Well type: (a) Oil  or Gas   
(b) If Gas: Production  Deep  Underground Storage Shallow

Proposed Target Formation(s): Benson 12/7/99 Exp. 12/7/99

Proposed Total Depth: 5200 feet

Approximate fresh water strata depths: \_\_\_\_\_

Approximate salt water depths: \_\_\_\_\_

Approximate coal seam depths: \_\_\_\_\_

Does land contain coal seams tributary to active mine? Yes  No

Proposed Well Work: Drill, perforate, stimulate new formation

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Office of Oil & Gas

24711

CASING AND TUBING PROGRAM Spudwell

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per Foot	For drilling	Left in Well	Fill-up (Car. Ft.)
Conductor	11-3/4			120'	120'	51
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	20#	1100'	1100'	38csr18-11.3&11.2.2
Production	4-1/2"	J-55	10 1/2#	5200'	5200'	38csr18-11.1
Tubing						
Liners						

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

1977  
For Office of Oil and Gas Use Only  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)  
 Agent

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DIVISION OF  
Permitting  
Office of Oil & Gas  
DEC 16 1997

1) Date: December 8, 1997  
2) Operator's Well Number  
C. WILLIAMS #1  
3) API Well No: 47 - 017 - 4417  
State - County - Permit

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 BRADLEY LAPO AND JOYCE LAPO  
Address RT. 2, BOX 309  
WEST UNION WV 26456
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV  
Telephone (304) - 782-1043
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

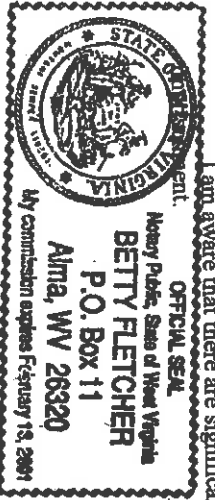
OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas issued under this application.

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) 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 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



Well Operator DRILLING APPALACHIAN CORPORATION  
By: Betty Fletcher  
As: President  
Address P.O. BOX 99  
ALMA, WV 26320  
Telephone (304) 758-4638

Subscribed and sworn before me this 8th day of December, 1997

My commission expires February 13, 2001

Betty Fletcher Notary Public