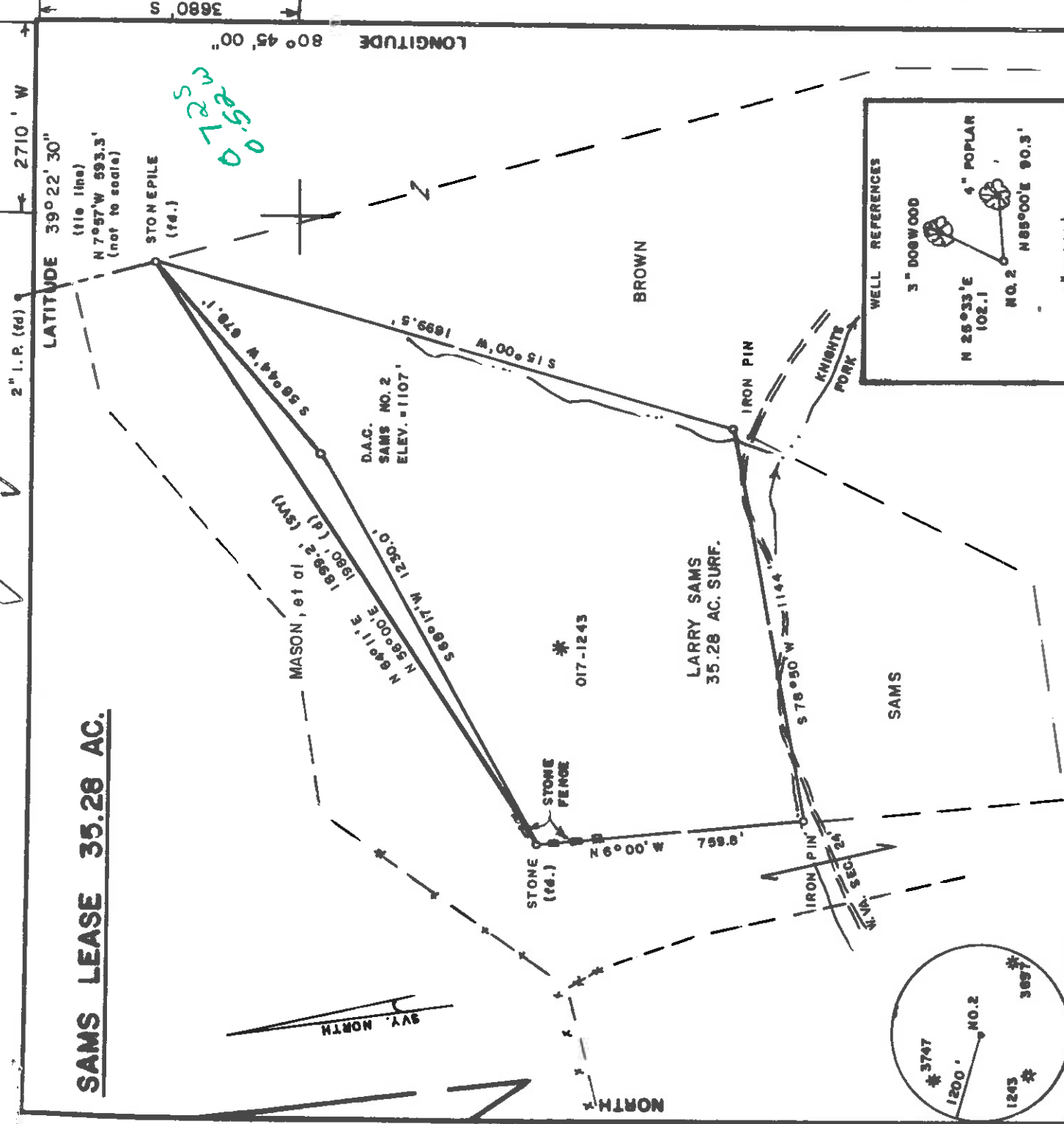
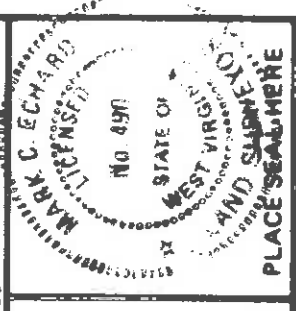


**SAMS LEASE 35.28 AC.**



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB  
 NORTH OF LEASE ELEV. = 1306'

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 MAY 27 19 97  
 OPERATOR'S WELL NO. SAMS NO. 2  
 API WELL NO. 47-017-04373  
 STATE COUNTY PERMIT

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

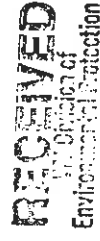
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS.") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1107' WATER SHED KNIGHTS FORK OF LITTLE FJUNT RUN  
 DISTRICT GRANT COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5  
 SURFACE OWNER LARRY SAMS ACREAGE 35.28'  
 OIL & GAS ROYALTY OWNER LARRY SAMS LEASE ACREAGE 35.28

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 2300'  
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ALMA, WV 26320  
 P.O. BOX 99 ALMA, WV 26320

JUN 6 1997

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas



Well Operator's Report of Well Work

Farm Name: Sams, Larry  
Location: Elevation: 1107'  
District: Grant  
Latitude: 2710 Feet South of  
Longitude: 3680 Feet West of

Operators Well No.: #2  
Quadrangle: West Union  
County: Doddridge  
39 Deg. 22min. 30sec.  
80 Deg. 45 min. 00sec.

Permitting  
Office of Oil & Gas

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

Agent: Kenneth Mason

Inspector: Mike Underwood  
Permit Issued: 06/05/97  
Well Work Commenced: 06/05/97  
Well Work Completed: 06/09/97  
Rotary  Cable \_\_\_\_\_ Rig

Total Depth (feet) 2360'  
Fresh Water Depths (ft) 40'  
Salt Water Depths (ft) NA  
Is coal being mined in area (Y/N) N  
Coal Depths (ft): none

casing tubing	used in drilling	left in well	cement fill up sks
9 5/8	155	134	60
6 5/8	2050	1997	295

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2182-2204  
Gas: Initial open flow 267 MCF/D Oil: Initial open flow 0 BBL/D  
Final open flow 260 MCF/D Final open flow 0 BBL/D  
Static Rock Pressure 85 psig (surface pressure) after 48 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/D Oil: Initial open flow \_\_\_\_\_ BBL/D  
Final open flow \_\_\_\_\_ MCF/D Final open flow \_\_\_\_\_ BBL/D  
static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

For: Drilling Appalachian Corp.

By: *Kenneth Mason*

Date: 06-10-97

JUN 27 1997  
JUN 27 1997

Stage                      Formation                      Perfs                      Sand                      N2

Formation producing naturally, no casing or stimulation necessary

**Drillers Log**

Formation	Top	Bottom	Formation	Depth top
fill	0	5		
Sh	5	25	Big Lime	2048
Sd/Sh	25	120	Keener	2124
RR	120	170	Pocono	2182
Sd/SH	170	770		
Sd	770	790		
Sd/Sh	790	1018		
Sd	1018	1100		
Sd/Sh	1100	1276		
Sd	1276	1310		
Sd/Sh	1310	2004	hole damp @ 1706'	
Lime	2004	2014		
Sh	2014	2037		
Lime	2037	2127	gas ck @ 2081' = no show	
Sd	2127	2247	gas ck @ 2175 = no show	
Sh	2247	2360	gas ck @ 2206 = 267 mcf	
Td	2360		gas ck @ Td = 260 mcf	

**Electric Log Tops**

JUN 27 1997

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

1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (3) 671

Operator's Well Number: SAMS #2

3) Elevation: 1107

Well type: (a) Oil x/ or Gas x/ *Issued 06/05/97*

(b) If Gas: Production x/ Undergound Storage / *Expires 06/05/99*  
Deep x/ Shallow x/ *32*

Proposed Target Formation(s): Big Injun

Proposed Total Depth: 2300' feet

Approximate fresh water strata depths:

Approximate salt water depths: *Permitting*

Approximate coal seam depths: *Ice of Oil & Gas*

10) Does land contain coal seams tributary to active mine? Yes / Nox /

11) Proposed Well Work: Drill, perforate, stimulate new formation

12)

RECEIVED  
WV Division of  
Environmental Protection  
JUN 13 1997

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	9-5/8"			120'	120'	55 sacks -class A
Fresh Water						<i>O.K. MBBY</i>
Coal						
Intermediate	7"	J-55	17#	1970'	1970'	38CS18-11.22
Production	4-1/2"	J-55	10.5#	2200'	2200'	38CS18-11.22
Tubing						
Liners						

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

For Office of Oil and Gas Use Only

*11/19/97*  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)

11e Copy

**RECEIVED**  
WV Division of  
Surface Mine Reclamation

1997

Permitting  
Office of Oil & Gas

1) Date: May 27, 1997  
2) Operator's well number  
SAMS #2  
3) API Well No: 47 - 017 - 4373  
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 Larry & Carolyn Sams Name \_\_\_\_\_  
 Address Rt 3, Box 338 Address \_\_\_\_\_  
Parkersburg, WV 26101

(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
 Address \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_

(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_

6) Inspector Mike Underwood (c) Coal Lessee with Declaration  
 Address Rt 2, Box 135 Name \_\_\_\_\_  
Salem WV 26426 Address \_\_\_\_\_  
 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 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

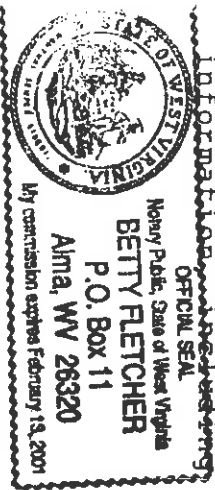
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

\_\_\_\_\_ 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.



**DRILLING APPALACHIAN CORPORATION**  
 Well Operator  
 BY: [Signature]  
 Its: \_\_\_\_\_ **PRESIDENT**  
 Address \_\_\_\_\_ P.O. BOX 99  
ALMA WV 26320  
 Telephone 304-758-4638

subscribed and sworn before me this 27th day of MAY, 1997

My commission expires February 13, 2001

[Signature] Notary Public