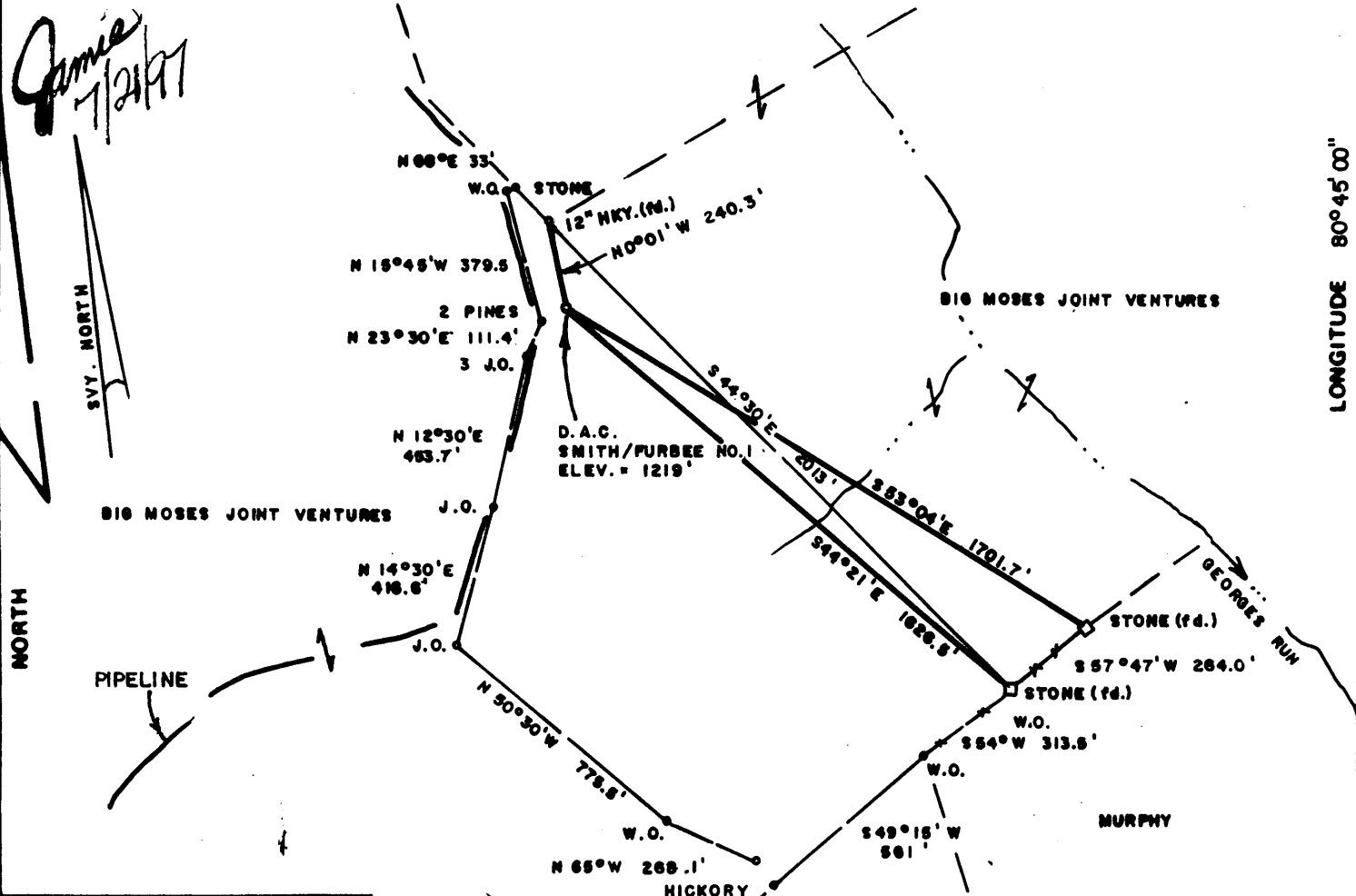


# SMITH / FURBEE LEASE 33.7 AC. ±

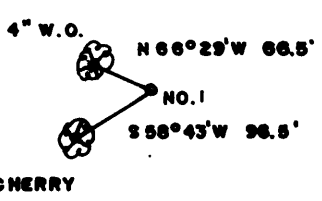
BIG MOSES JOINT VENTURES 33.7 AC. SURF.

*Janie*  
7/21/97



LONGITUDE 80°45'00"

### WELL REFERENCES



NOTE: NO WELLS SHOWN WITHIN A 1200' RADIUS.

7.5' tape loc.

2.845  
0.59W

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SE  
 SIDE OF LEASE ELEV. = 1262'

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.

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



WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506  
 (8-78)



DATE MAY 30, 19 97  
 OPERATOR'S WELL NO. S/F NO.1  
 API WELL NO. 47-095-01683  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS Y LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION Y STORAGE \_\_\_ DEEP \_\_\_ SHALLOW Y  
 LOCATION: ELEVATION 1219' WATER SHED GEORGES RUN OF McELROY CREEK  
 DISTRICT McELROY COUNTY TYLER  
 QUADRANGLE STIRLEY 7.5'  
 SURFACE OWNER BIG MOSES JOINT VENTURES ACREAGE 33.7  
 OIL & GAS ROYALTY OWNER MORRIS SMITH TRUST, et al LEASE ACREAGE 33.7  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL Y CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE Y PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6-92

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2300'  
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON JUL 25 1997  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, WV 26320 ALMA, WV 26320

BIAS BLUEPRINT Huntington, W.V. 579536

**RECEIVED**  
WV Division of  
Environmental Protection

SEP 12 1997

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm Name: Big Moses Joint Ventures  
Location: Elevation: 1219'  
District: McElroy  
Latitude: 14950 Feet South of  
Longitude: 3100 Feet West of

Operators Well No.: Smith/Furbee #1  
Quadrangle: Shirley 7.5'  
County: Tyler  
39 Deg. 27min. 30sec.  
80 Deg. 45 min. 00sec.

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

casing tubing	used in drilling	left in well	cement fill up sks
9 5/8	155	133	50
6 5/8	2150	2086	320
4 1/2	3017	3012	170

Agent: Kenneth Mason

Inspector: Mike Underwood  
Permit Issued: 07/21/97  
Well Work Commenced: 07/23/97  
Well Work Completed: 07/30/97  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3017'  
Fresh Water Depths (ft) 79'  
Salt Water Depths (ft) 1845  
Is coal being mined in area (Y/N) N  
Coal Depths (ft): N/A

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2270-2300  
Gas: Initial open flow tstm MCF/D Oil: Initial open flow 0 BBL/D  
Final open flow 265 MCF/D Final open Flow show BBL/D  
Static Rock Pressure 55 psig (surface pressure) after 48 Hours

Second producing formation Gordon Pay zone depth (ft) 2962-78  
Gas: Initial open flow \* MCF/D Oil: Initial open flow 0 BBL/D  
Final open flow \* MCF/D Final open flow 0 BBL/D  
static rock pressure \* psig (surface pressure) after \* Hours

For: Drilling Appalachian Corp.

By: Smith D. Mason

Date: 08-15-97

08 15 1997

Stage	Formation	Perfs	Sand	N2
08-07-97	Smith/Furbee #1			
1	Gordon	2950-2955 14	200 sks	293,000 scf
2	Big Injun	2270-2284 16	200 sks	267,000 scf

ISIP = 1798#  
5 min = 1391#

#### Drillers Log

Formation	Top	Bottom	
fill	0	5	
Sd	5	15	
Sd/Sh	15	380	hole damp @ 79
Sh	380	384	
Sd/Sh	384	882	
Sd	882	894	
Sd/Sh	894	1540	
Sd	1540	1588	
Sd/Sh	1588	1638	
Sh	1638	1641	
Sd/Sh	1641	2085	hole wet @ 1845
Lime	2085	2100	
Sh	2100	2120	
Lime	2120	2190	
Sd	2190	2322	gas ck @ 2190 = mo show
Sh	2322	2925	
Sd	2925	2935	
Sh	2935	3017	gas ck @ 3017 = smell

#### Electric Log Tops

Formation	Depth top
Big Lime	2125
Big Injun	2197
Berea	2710
Gordon	2930

NOV 1 - 1997

095-1683

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

Issued 07/21/97  
Expires 07/21/99

24016

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION
- 2) Operator's Well Number: SMITH/FURBEE 1 3) Elevation: 1219'
- 4) Well type: (a) Oil \_\_\_/ or Gas X \_\_\_/
  - (b) If Gas: Production X \_\_\_/ Underground Storage \_\_\_/
  - Deep \_\_\_/ Shallow X \_\_\_/
- 5) Proposed Target Formation(s): BIG INJUN 371
- 6) Proposed Total Depth: 2300' 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 X \_\_\_/
- 11) Proposed Well Work: Drill, perforate, stimulate new formation

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Office of Oil & Gas  
Permitting  
JUL 21 1997

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS 38CSR18-11.3 CEMENT

	Size	Grade	Weight per Foot	For drilling	Left in Well	Fill-up (Cu. ft.)
Conductor	9-5/8"			120'	120'	55 SXS CLASS A
Fresh Water						
Coal						
Intermediate	7"	J-55	17#	2140'	2140'	38CSR18-11.22
Production	4-1/2"	J-55	10.5#	2300'	2300'	38CSR18-11.22
Tubing						38CSR18-11.1
Liners						

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

1507 23

For Office of Oil and Gas Use Only

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

(Type)

File Copy

**RECEIVED**  
WV Division of  
Environmental Protection  
JUL 21 1997

Permitting  
Office of Oil & Gas

1) Date: June 17, 1997  
2) Operator's Well Number  
SMITH/FURBEE 1  
3) API Well No: 47 - 095 - 1683  
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 Gary Davis  
Address 818 Main Street  
Sistersville, WV 26175
- (b) Name Gary Midcap  
Address Sistersville WV 26175
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV  
Telephone (304) - 782-1043
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**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 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: *Forrest R. Johnson*  
Its: PRESIDENT  
Address P.O. BOX 99  
ALMA, WV 26320  
Telephone (304) 758-4638  
day of July, 1997

Subscribed and sworn before me this 17

My commission expires February 13, 2001

*Betty Fletcher*

Notary Public