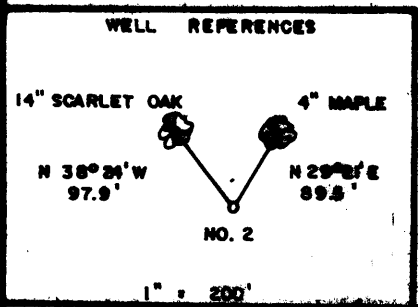
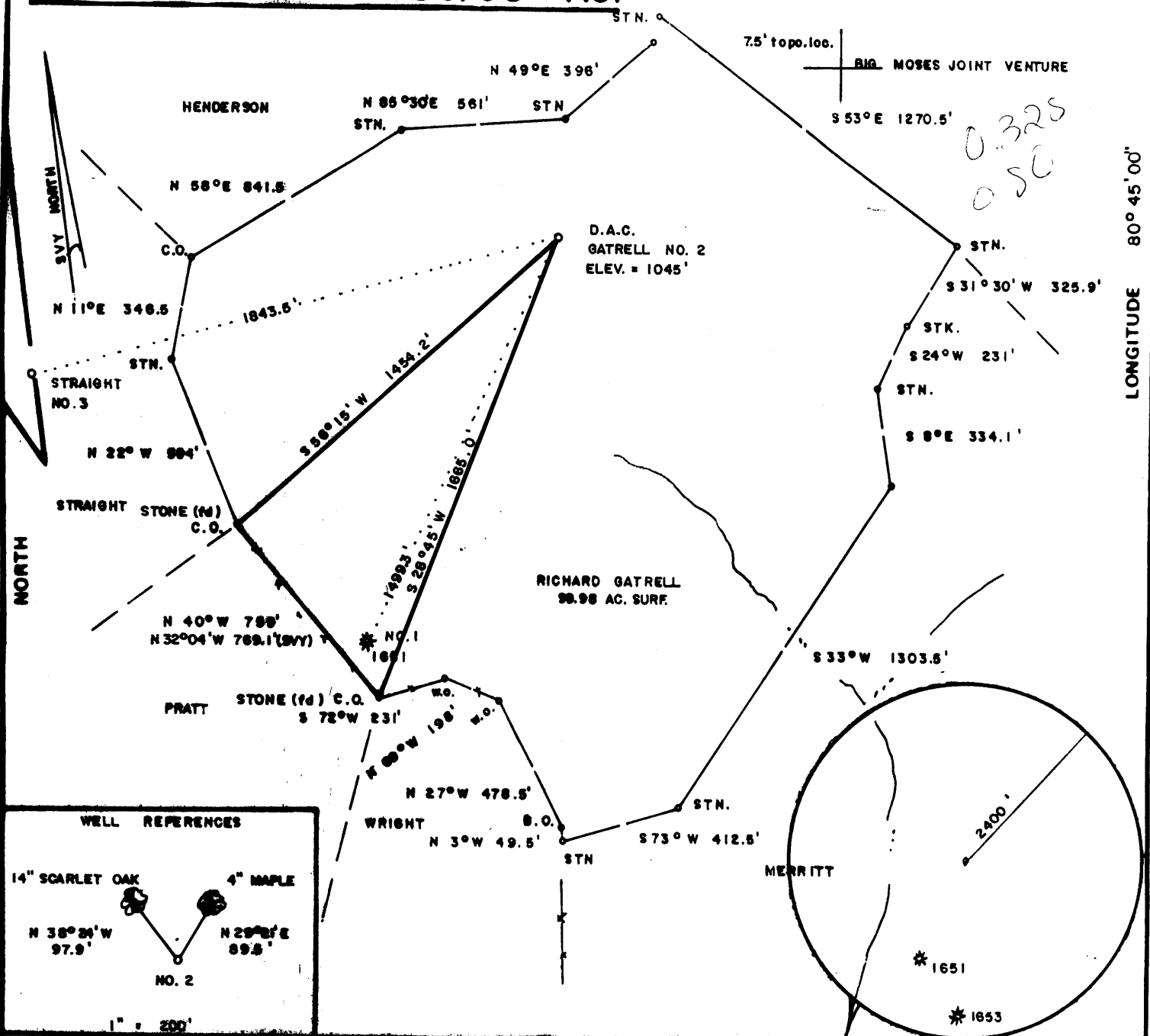


4230' W

GATRELL LEASE 99.98 AC.

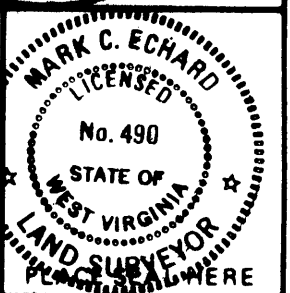
LATITUDE 39° 25' 00"

LONGITUDE 80° 45' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM SOUTH OF LEASE ELEV. = 737'

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



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



DATE SEPTEMBER 26, 1996
 OPERATOR'S WELL NO. GATRELL NO. 2
 API WELL NO. 47-095-01664
 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 1045' WATER SHED CAMP RUN of McELROY CREEK
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER RICHARD GATRELL ACREAGE 99.98
 OIL & GAS ROYALTY OWNER WILLIAMS HEIRS LEASE ACREAGE 99.98
 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 2200' 6-6 92
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON OCT 25 1996
 ADDRESS P.O. BOX 99 ALMA, WV 26320 ADDRESS P.O. BOX 99 ALMA, WV 26320

BLAS BLUEPRINT Huntington, W.V. 878636

RECEIVED
WV Division of
Environmental Protection

OCT 28 1996

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: Gatrell, Richard
Location: Elevation: 1045'
District: McElroy
Latitude: 1600 Feet South of
Longitude: 4230 Feet West of

Operators Well No.: #2
Quadrangle: Shirley
County: Tyler
39 Deg. 25min. 0sec.
80 Deg. 45 min. 0 sec.

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	150	133	65
6 5/8	1945	1897	300

Agent: Kenneth Mason

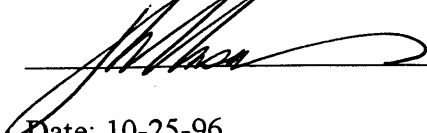
Inspector: Mike Underwood
Permit Issued: 10//08/96
Well Work Commenced: 10/16/96
Well Work Completed: 10/21/96
Rotary X Cable _____ Rig
Total Depth (feet) 2300'
Fresh Water Depths (ft) 68'
Salt Water Depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): none

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2001-2037'
Gas: Initial open flow 1104 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 900 MCF/D Final open Flow show BBL/D
Static Rock Pressure _____ psig (surface pressure) after 24 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: 
Date: 10-25-96

030

Stage	Formation	Perfs	Sand	N2
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10-25-96	Gatrell #2			
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Well completed as a natural, no stimulation needed

Drillers Log

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Clay	0	5
Sh	5	14
Sd/Sh	15	25
Sd	25	110
Sh/Sd	110	1205
Coal	1205	1210
Sd/Sh	1210	1440
Coal	1440	1445
Sd/Sh	1445	1910
Lime	1910	1925
Sh	1925	1943
Lime	1943	2001
Sd	2001	2037
Sh	2037	2045
Sd	2045	2110
Sh	2110	2300

Electric Log Tops

<u>Formation</u>	<u>Depth top</u>
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gas ck @ 2039 = 1,104 mcf
gas ck @ 2068 = 1,104 mcf
gas ck @ 2131 = 1,104 mcf
gas ck @ TD = 900 mcf

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

- 1) Well Operator: 0311 DRILLING APPALACHIAN CORPORATION
- Operator's Well Number: GATRELL 2 3) Elevation: 1045'
- Well type: (a) Oil x/ or Gas x/ *Issued 10/08/96*
 (b) If Gas: Production x/ Underground Storage / *Expires 10/08/98*
 Deep / Shallow x/
- Proposed Target Formation(s): Big Injun³⁷¹
- 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 /
- 11) Proposed Well Work: Drill, perforate, stimulate 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	9-5/8"			120'	120'	55 sacks class A
Fresh Water						<i>o/c m/w</i>
Coal						
Intermediate	7"	J-55	17#	1969	1969	38CSR18-11.22
Production	4-1/2"	J-55	10.5#	2200	2200	38CSR18-11.22
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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)

1347/37

1) Date: September 30, 1996
2) Operator's well number
Gatrell #2
3) API Well No: 47 - 095 - 1664
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Richard Gatrell</u>
Address <u>PO Box 257</u>
<u>Middlebourne WV 26149</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rte 2, Box 135</u>
<u>Salem WV 26426</u>
Telephone (304)- <u>782-1043</u></p> | |

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:

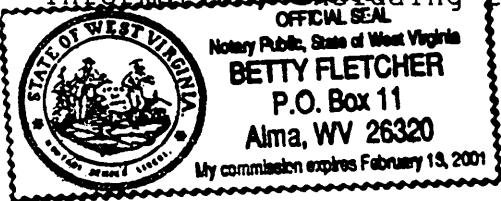
- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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. Plason
Its: PRESIDENT
Address PO BOX 99
ALMA WV 26320
Telephone 304-758-4638



Subscribed and sworn before me this 30th day of September, 1996

My commission expires 2/13/2001 Betty Fletcher Notary Public