

10,750'

LATITUDE 38°25'00"

REFERENCE POINTS
PROPOSED LOCATION TO:

12" MAPLE = N 28°23' E - 173.85'
20" B.O. = S 23°19' W - 225.24'

CALL GUM & BEECH EAST

K-1781

RODGER B. ARBOGAST
26.7 AC. SURFACE

891'

N 30° E
1518'

PROPOSED LOCATION

K-4551

K-1780
GUM STUMP COR.

N 60° 29' E
898.95'

ROAD

CASSIUS H. TOON

2317.60'
S 17° 22' W

RIDGE

N 2° 56' W - 1771.31' MAG.
NORTH - 1749' DEED

NORTH

APPALACHIAN LAND CO.

DUTCH

(66 AC.)

K-4886

IRON PIN COR. K-4957
CALL OF W.O. (137 AC.)

TOPO LOCATION

K-4798

N 35° W
1881'

VADA ARBOGAST IGO, ET AL
176.9 AC. SURFACE

CALL SP. PINE & BIRCH

K-4898

F.B. CONNER

Janie 7/20/95

NOTE

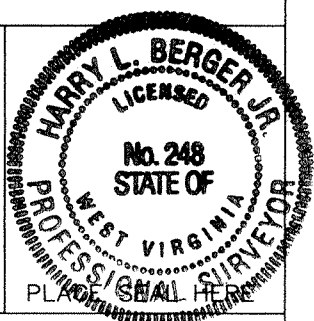
ALL EXISTING WELLS WITHIN 2500' ARE
SHOWN ON THIS WELL PLAT.

*2.12
4.23*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____ ELK DISTRICT _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 200
PROVEN SOURCE OF ELEVATION USGS BM EL. 1374
S.E. OF LOCATION AT ROAD

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 ENERGY.
(SIGNED) *Harry L. Berger Jr.*
R.P.E. _____ I.L.S. 248



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JULY 5, 1995
OPERATOR'S WELL NO. ARGOGAST NO. 1
API WELL NO.

47 - 039 - 05002
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 1321.5 WATERSHED FALLING ROCK CREEK OF ELK RIVER
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE CLENDENIN *50*

SURFACE OWNER RODGER B. ARBOGAST ACREAGE 26.7
OIL & GAS ROYALTY OWNER GOLDIE M. KENDALL, ET AL LEASE ACREAGE 203.5
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 WEIR - INJUN ESTIMATED DEPTH 2400'
WELL OPERATOR BLUE CREEK GAS COMPANY DESIGNATED AGENT STEVEN M. RUBIN
ADDRESS P.O. BOX 6666, CHARLESTON, WV. 25362 ADDRESS P.O. BOX 6666, CHARLESTON, WV. 25362

AUG 1 1995

6-6-220

LONGITUDE 81°17'30"

11,120'

COUNTY NAME

PERMIT

FORM WW-6

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

1995

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: ARBOGAST, C.L. ETAL.

Operator Well No.: ARBOGAST #1

LOCATION: Elevation: 1322 Quadrangle: CLENDENIN

District: ELK County: KANAWHA
Latitude: 10,750 Feet South of 38 Deg. 25 Min. 06 Sec.
Longitude 11,120 Feet West of 81 Deg. 17 Min. 30 Sec.

Company: BLUE CREEK GAS CO.
1700 PA. AVENUE-P.O. BOX 6357
CHARLESTON, WV 25362-6357

Agent: STEVEN M. RUBIN

Inspector: CARLOS HIVELEY
Permit Issued: 07/24/95
Well work Commenced: 8/30/95
Well work Completed: 9/2/95
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 2378
Fresh water depths (ft) _____
560
Salt water depths (ft) _____
1260
Is coal being mined in area (Y/N)? No
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size <u>8 5/8</u>	<u>726</u>	<u>726</u>	<u>245 sk</u>
<u>4 1/2</u>	<u>2260</u>	<u>2260</u>	<u>282 sk</u>

OPEN FLOW DATA

Commingled

Producing formation WEIR Pay zone depth (ft) 2140
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 850 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 450* psig (surface pressure) after 48 Hours

Commingled

Second producing formation INTJUN Pay zone depth (ft) 2660
Gas: Initial open flow _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 850 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 450* psig (surface pressure) after 48 Hours

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: BLUE CREEK GAS CO.

By: Steven M. Rubin, Via President
Date: Oct 30, 1995

NOV 17 1995

Arbogast

Perforations

Injun 18 holes 2090-2096
 Weir 18 holes 2200-2260

Fracturing

Injun			
	Treating Pressure	2787 #	
	Breakdown	3043 #	
	Sand	102 sks.	
	Nitrogen	199000 scl	
Weir			
	Treating Pressure	2790 #	psi
	Breakdown	3019 #	psi
	Sand	17400 sks.	sks.
	Nitrogen	260000 scl	ccf

Formation

Depths

	Top	Bottom
Sand, Shale, Rock	0	1584
Shale	1584	1620
Upper Maxton	1620	1670
Shale	1670	1754
Middle Maxton	1754	1818
Shale	1818	1870
Shale	1870	1930
Lime	1930	2060
Injun	2060	2090
Shale	2090	2140
Weir	2140	2288
Shale	2288	2378

T.D.

JUL 07 1995

STATE OF WEST VIRGINIA

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

Permitting Operator: ⁴⁷⁹⁰ BLUE CREEK GAS CO. 6100 (4) 299
 Office of Oil & Gas

2) Operator's Well Number: Arbogast #1 3) Elevation: 1321.5

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

Issued 07/24/95
 Expires 07/24/97

5) Proposed Target Formation(s): ³⁸⁷ INJUN / WEIR

Proposed Total Depth: 2400 feet

Approximate fresh water strata depths: 630

8) Approximate salt water depths: 1210

9) Approximate coal seam depths: 560

10) Does land contain coal seams tributary to active mine? Yes ___ / No X /

11) Proposed Well Work: DRILL - Stimulate New Well

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	
Conductor					
Fresh Water	8"			710	710 TO SURFACE
Coal					38CSE-18-11.3
Intermediate					38CSE-18-11.22
Production	4 1/2"			2390	2390 200 SKS
Tubing					38CSR-18-11.1
Liners					

PACKERS : Kind _____
 Sizes _____
 Depths set _____

00 1122 / 33 For Office of Oil and Gas Use Only
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-11 Bond Blanket Agent
 (Type)

RECEIVED
Environmental Protection
1995

1) Date: JULY 5, 1995
2) Operator's well number
ARBOGAST # 1
3) API Well No: 47 - Q39 - 5002
State County Permit

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:
(a) Name <u>W.J. - MAMIE ARBOGAST</u>
Address <u>901 STADIUM PLACE</u>
<u>CHAS. WV</u>
(b) Name _____
Address <u>25311</u>
(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>NON-OPERATED</u>
Address _____
(b) Coal Owner(s) with Declaration
Name <u>maxim mgt</u>
Address <u>P.O. Box 7</u>
<u>MT. CARBON, WV</u>
Name _____
Address _____
(c) Coal Lessee with Declaration
Name <u>same as above</u>
Address _____</p> |
| <p>6) Inspector <u>CARLOS Hively</u>
Address _____
Telephone (304) - <u>965-6069</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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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 BLUE CREEK GAS
 By: Steve m Rubin
 Its: Vice President
 Address P.O. BOX 6666
CHAS WVA
 Telephone 304 342-0141

Subscribed and sworn before me this 6TH day of JULY, 1995

Harry J. Berger, Jr Notary Public
My commission expires MAY 24 1999