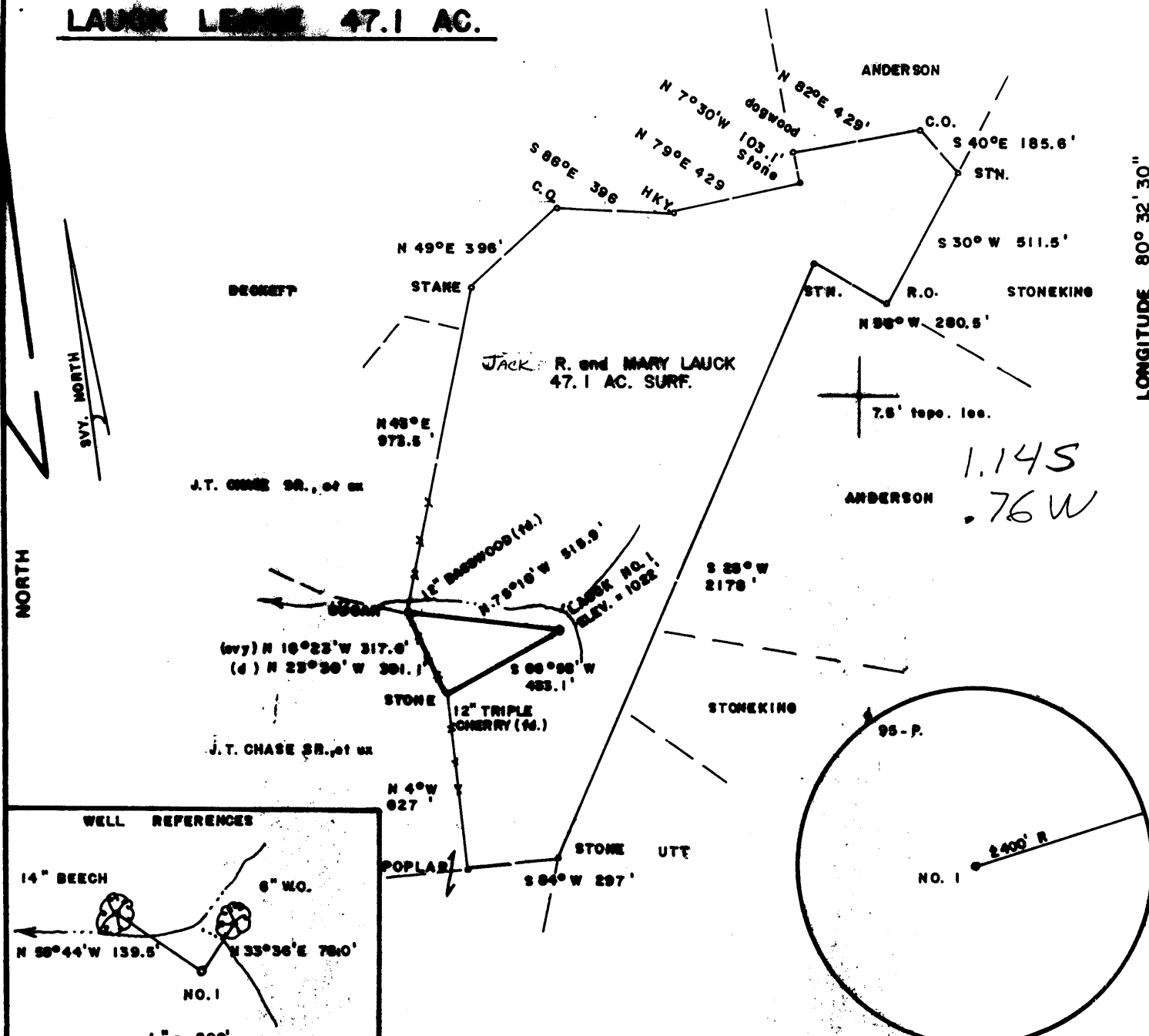


4080' W

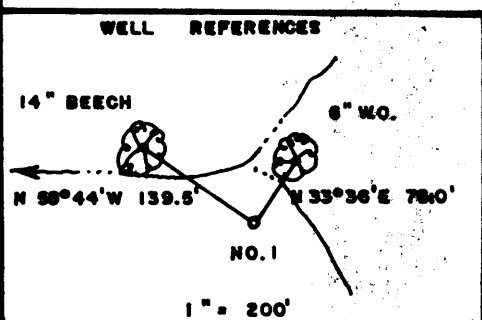
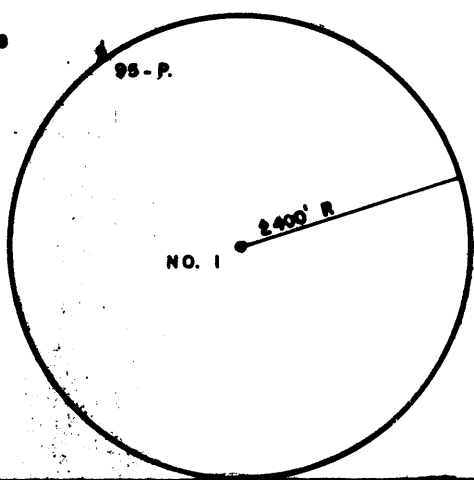
LATITUDE 39° 37' 30"

LONGITUDE 80° 32' 30"

LAUCK LEASE 47.1 AC.

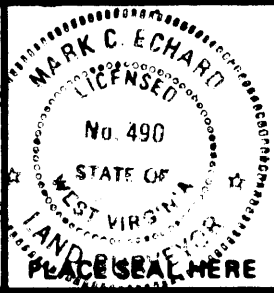


1.145
76 W



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS
 NW OF LEASE ELEV. = 1418'

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



DATE OCTOBER 10, 1997
 OPERATOR'S WELL NO. LAUCK NO. 1
 API WELL NO. _____
47 - 103 - 01754
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1022' WATER SHED BIG RUN
 DISTRICT GRANT COUNTY WETZEL
 QUADRANGLE BIG RUN
 SURFACE OWNER Jack R. and MARY LAUCK ACREAGE 47.1
 OIL & GAS ROYALTY OWNER Jack R. and MARY LAUCK LEASE ACREAGE 47.1
 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 SPEECHLY- BAYARD ESTIMATED DEPTH 3800'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, WV 26320 ALMA, WV 26320

OCT 24 1997

6-6 45

BIAS BLUEPRINT Huntington, W.V. 579836

JAN 23 1998

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: Lauck, Jack & Mary
Location: Elevation: 1022'
District: Grant
Latitude: 6000 Feet South of
Longitude: 4080 Feet West of

Operators Well No.: Lauck #1
Quadrangle: Big Run 7.5'
County: Wetzell
39 Deg. 37min. 30sec.
80 Deg. 32 min. 30sec.

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	240	216	70
6 5/8	1975	1945	180
4 1/2	3388	3270	160

Agent: Kenneth Mason

Inspector: Randall Mick
Permit Issued: 10/23/97
Well Work Commenced: 10/31/97
Well Work Completed: 11/06/97
Rotary X Cable _____ Rig
Total Depth (feet) 3388'
Fresh Water Depths (ft) 25'
Salt Water Depths (ft) 1660'
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) 2044-2094
Gas: Initial open flow 267 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 267 MCF/D Final open Flow show BBL/D
Static Rock Pressure _____ psig (surface pressure) after 48 Hours

Second producing formation Bayard Pay zone depth (ft) 3144-3148
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:

Kenneth R. Mason

Date: 12-02-97

Stage	Formation	Perfs	Sand	N2
11-17-97	Lauck #1			
1	5th Sd	2975-3148 16	300 sks	332,000 scf
2	Big Injun	2270-2284 12	1,000 HCL	171,000 scf

ISIP = 1789#
5 min = 1158#

Drillers Log

Formation	Top	Bottom	
fill	0	5	
Sd	5	55	
Coal	55	58	hole damp @ 25
Sh	58	265	
Sd	265	350	
Sd/Sh	350	1635	
Sd	1635	1722	hole wt @ 1660'
Sd/Sh	1722	1955	
Lime	1955	2030	
Sd	2030	2100	
Sd	2100	2225	gas ck @ 2105 = 189 mcfs
Sh	2225	2715	gas ck @ 2417 = 60 mcfs
Sd	2715	3388	gas ck @ 2857 = 133 mcfs
Sh	2935	3388	gas ck @ DCs = 267 mcfsd

Electric Log Tops

Formation	Depth top
Big Lime	1974
Big Injun	2397
Berea	2710
Gordon	2801

24485

163-1754

Issued 10/23/97
Expires 10/23/99

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

- 6) Well Operator: DRILLING APPALACHIAN CORPORATION ^{3'} 14425 (4) 254
- 7) Operator's Well Number: LAUCK #1 3) Elevation: 1022'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow ⁴³²
- 5) Proposed Target Formation(s): SPEECHLEY/BAYARD
- 6) Proposed Total Depth: 3600' feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: 700
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation *Newhall*

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per Foot	For drilling	Left in Well	Fill-up (Cu. ft.)
Conductor	9-5/8"			200'	200'	100 sks class A
Fresh Water						
Coal						
Intermediate	7"	J-55	17#	1945'	1945'	38CS18-11.22
Production	4-1/2"	J-55	10.5#	3600'	3600'	38CS18-11.22
Tubing						
Liners						

PACKERS: Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

- 11/3/97
- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
(Type)

1) Date: OCTOBER 16, 1997
2) Operator's Well Number
LAUCK #1
3) API Well No: 47 - 103 - 1754
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 JACK R. AND MARY K. LAUCK
Address 603 3RD STREET
WILLIAMSTOWN WV 26187
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Address _____
Name _____
Address _____

(6) Inspector Randal Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304) 986-3324

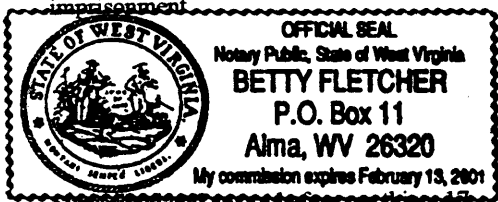
(c) Coal Lessee with Declaration
Name _____
Address _____

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: *Ronald M. ...*
Its: PRESIDENT
Address P.O. BOX 99
ALMA, WV 26320
Telephone (304) 758-4638

Subscribed and sworn before me this 17 day of OCTOBER, 1997

Betty Fletcher Notary Public
My commission expires February 13, 2001