

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander Perforated 14-.39 holes 5014-5057' Treated with 665 Bbl H2O, 500 gal. 15% HCL, 10,000# 80/100 and 60,000# 20/40.

Benson & Benson Stray Perforated 9 - .39 holes 4738-4739, 4576-4581' Treated with 589 Bbl H2O, 750 gal. HCL, 10,000# 80/100 and 50,000# 20/40.

Balltown Perforated 15 - .39 holes 3506-3540' Treated with 498 Bbl H2O, 750 gal. HCL, 10,000# 80/100 and 40,000# 20/40.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
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KB Red Rock & Sandy Shale

Shale

Sand & Shale

Red Rock

Sandy Shale

Sand

Red Rock and Sandy Shale

Sand & Shale

Shale and Sand

Sand

Sandy Shale

Little Lime

Sandy Shale

Big Lime

Big Injun

Sandy Shale

Sand & Shale

Benson Stray

Shale

Benson

Shale

Alexander

Shale

TD

0

10

20

30

198

223

296

303

640

960

1520

1555

1706

1743

1752

1818

1885

2815

4575

4581

4735

4740

5011

5059

5338

10

20

30

198

223

296

303

640

960

1520

1555

1706

1743

1752

1818

1885

2815

4575

4581

4735

4740

5011

5059

5338

Gas Checks:

1899' 70/10 thru 1" Mercury
2795' 60/10 thru 1" Mercury
3261' 56/10 thru 1" Mercury
3823' 50/10 thru 1" Mercury
4601' 60/10 thru 1" Mercury
TD 40/10 thru 1" Mercury

Gas at TD was 246 Mcf

RECEIVED
JAN 25 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Fluharty Enterprises, Inc. (Tri-County Oil & Gas, Inc.)
Well Operator

By: *[Signature]*

Date: January 23, 1990

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

FEB 09 1990

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

017-3780
Issued 12/26/89
Page 1 of 1
Expires 12/26/91

- 1) Well Operator: 396 Fluharty Enterprises, Inc. 17480 (7) 525
- 2) Operator's Well Number: Haessly #3 3) Elevation: 1046'
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Alexander 429
- 6) Proposed Total Depth: 5,500 feet
- 7) Approximate fresh water strata depths: 50', 251', 120', 146'
- 8) Approximate salt water depths: 1296', 1168'
- 9) Approximate coal seam depths: None
- 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
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		46	200'	200'	<u>706</u> <u>WGS</u>
Fresh Water	8 5/8"		23	1400'	<u>CTS</u> 1400'	CTS 38CSR 18-11.3
Coal						<u>38CSR 18-11.2.2</u>
Intermediate						
Production	4 1/2"	J55	10.5	5400'	5400'	By Rule 38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind
Sizes
Depths set

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

306 33
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond LC Blackletter Agent
(Type)

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DEC 20 1989

1) Date: December 14, 1989
2) Operator's well number Haessly #3 Well
3) API Well No: 47 - 017 - 3780
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 Haessly Hardwood Lumber Sales
Address R. D. #1
Marietta, OH
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration
Name N/A
Address _____
- Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043
- (c) Coal Lessee with Declaration
Name N/A
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
XX 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 Fluharty Enterprises, Inc
By: Thomas J. Fluharty
Its: President
Address P. O. Box 226
Salem, WV 26426
Telephone 304-782-3831

Subscribed and sworn before me this 14th day of December, 19 89

My commission expires April 13, 1995 [Signature] Notary Public