



State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: HAESSLY HARWOOD LUMBER Operator Well No.: HAESSLY #6

LOCATION: Elevation: 1089.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 12730 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 3790 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: TERM ENERGY CORP.
110 N. SPRING ST.
HARRISVILLE, WV 26362-0000

Agent: JEAN FREELAND

Inspector: MIKE UNDERWOOD
Permit Issued: 12/26/89
Well work Commenced: 12/29/89
Well work Completed: 06/25/90
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig
Total Depth (feet) 5230
Fresh water depths (ft) 60

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16" | 15' | -0- | -0- |
| 11 3/4" | 25' | -0- | -0- |
| 8 5/8" | 1312.5' | 1312.5' | 413 |
| 4 1/2" | 516.9' | 516.9' | 857.6 |

OPEN FLOW DATA

Producing formation Alexander & Benson Stray Pay zone depth (ft) 4698 - 5084
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 620 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 820 psig (surface pressure) after _____ Hours

COMINGLED PRODUCTION

Second producing formation see back for zones 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
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ 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: TERM ENERGY CORP. Jean Freeland

By: Jean Freeland Agent
Date: 6/26/90

6/25/90

| PERFORATED | WELL | START | END | HOLES | DEPTH |
|------------|-----------------|-------|-----------|-------|-------|
| | ALEXANDER | 5058 | - 5084; | 15 | .39 |
| | BENSON STRAY | 4698 | - 4701; | 4 | .39 |
| | BRADFORD | 4348 | - 4349.5; | 4 | .39 |
| | MIDDLE BALLTOWN | 4095 | - 4099; | 5 | .39 |
| | UPPER BALLTOWN | 3900 | - 3908; | 5 | .39 |
| | UPPER SPEECHLY | 3285 | - 3533; | 7 | .39 |
| | WARREN | 3150 | - 3208; | 10 | .39 |
| | BEREA | 2263 | - 2267 | 5 | .39 |
| | WEIR | 2069 | - 2160; | 14 | .39 |

STAGE FRAC

TWO STAGES WATER

TWO STAGES ENERGIZED WATER

- ALEXANDER & BENSON; MAX TR PRESS 2747; AVG RATE 32.1; AVG PRESS 2809; STRAY 55,000# 20/40; 10,000# 80/100, MAX CONC 4, TOTAL ACID 500 GAL, TOTAL FLUID 672 BBLs ISIP 1247; 5 MIN SIP 97.7
- BRADFORD & BALLTOWN: MAX TR PRESS 2747; AVG RATE 32.1; AVG PRESS 3252; 25,000# 20/40; 10,000# 80/100; MAX CONC 3.5; TOTAL ACID 1000 GAL; TOTAL NITROGEN 62,000 SCF; TOTAL FLUIDS 458 BBLs; ISIP 1289; 5 MIN SIP 1082
- SPEECHLY & WARREN: MAX TR PRESS 2620; AVG RATE 28.7; AVG PRESS 2323; 32,000# 20/40; 10,000# 80/100; MAX CONC 4, TOTAL ACID 500 GAL; TOTAL FLUIDS 426 BBLs; ISIP 1319; 5 MIN SIP 944
- BEREA & WEIR: MAX TR PRESS 3360; AVG RATE 26.3; AVG PRESS 3064; 40,000# 20/40; 5,000# 80/100; MAX CONC 4; TOTAL ACID 500 GAL; TOTAL NITROGEN 52,000 SCF; TOTAL FLUIDS 426 BBLs; ISIP 1330; 5 MIN SIP 1504

| WELL LOG | TOP | BOTTOM | WATER |
|------------------|------|--------|-------------------|
| SAND, SHALE & RR | 0 | 1761 | 1/2" STREAM - 60' |
| BIG LIME | 1761 | 1830 | |
| BIG INJUN | 1830 | 1895 | |
| SAND & SHALE | 1895 | 5230 | |

| GEOPHYSICAL LOG | TOP | BOTTOM |
|-----------------|------|--------|
| BIG LIME | 1760 | 1828 |
| BIG INJUN | 1828 | 1904 |
| WEIR | 2060 | 2178 |
| BEREA | 2262 | 2269 |
| GORDON | 2490 | 2648 |
| WARREN | 3132 | 3184 |
| SPEECHLY | 3198 | 3756 |
| BALLTOWN | 3885 | 4246 |
| BRADFORD | 4312 | 4384 |
| RILEY | 4568 | 4712 |
| BENSON | 4767 | 4777 |
| LEOPOLD | 4901 | 4981 |
| ALEXANDER | 5019 | 5115 |

10006

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

- 1) Well Operator: 886 TERM Energy Corporation 49105 (7) 525
- 2) Operator's Well Number: Haessly #6 3) Elevation: 1089'
- 4) Well type: (a) Oil / or Gas x /
(b) If Gas: Production x / Underground Storage /
Deep / Shallow x /
- 5) Proposed Target Formation(s): Alexander 489
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 80 219', 226'
- 8) Approximate salt water depths: 1239', 1219' 0 1241', 1211', 1236'
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes / No x /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|--------------|----------------|-------------------|--------------|--------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | 16 11 3/4" | J-55 J-55 | 75# 42# | 15' 22' | 0 | 0 |
| Fresh Water | 8 5/8" | J-55 | 20# | 1189' | 0-1189' | 0 |
| Coal | | | | | | |
| Intermediate | | | | | | |
| Production | 4 1/2" | J-55 | 11.6# 10.5# | 84' 5100' | 84' 5100' | 250 |
| Tubing | | | | | | |
| Liners | | | | | | |

OK
WTS
38CSR18-11.3
38CSR18-11.2
38CSR18-11.1

PACKERS : Kind
Sizes
Depths set

RECEIVED
DEC 20 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

557
33
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket letter Agent
(Type)

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DEC 20 1989

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

1) Date: December 14, 1989
2) Operator's well number
Haessly #6
3) API Well No: 47 - 017 - 3778
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 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 _____
 - (c) Coal Lessee with Declaration
Name N/A
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)-782-1043

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 TERM Energy Corporation
By: Jean Shuland
Its: Agent
Address 110 North Spring Street
Harrisville, WV 26326
Telephone 304 643-4500

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

E. M. Lewis Notary Public
My commission expires 4/13/95