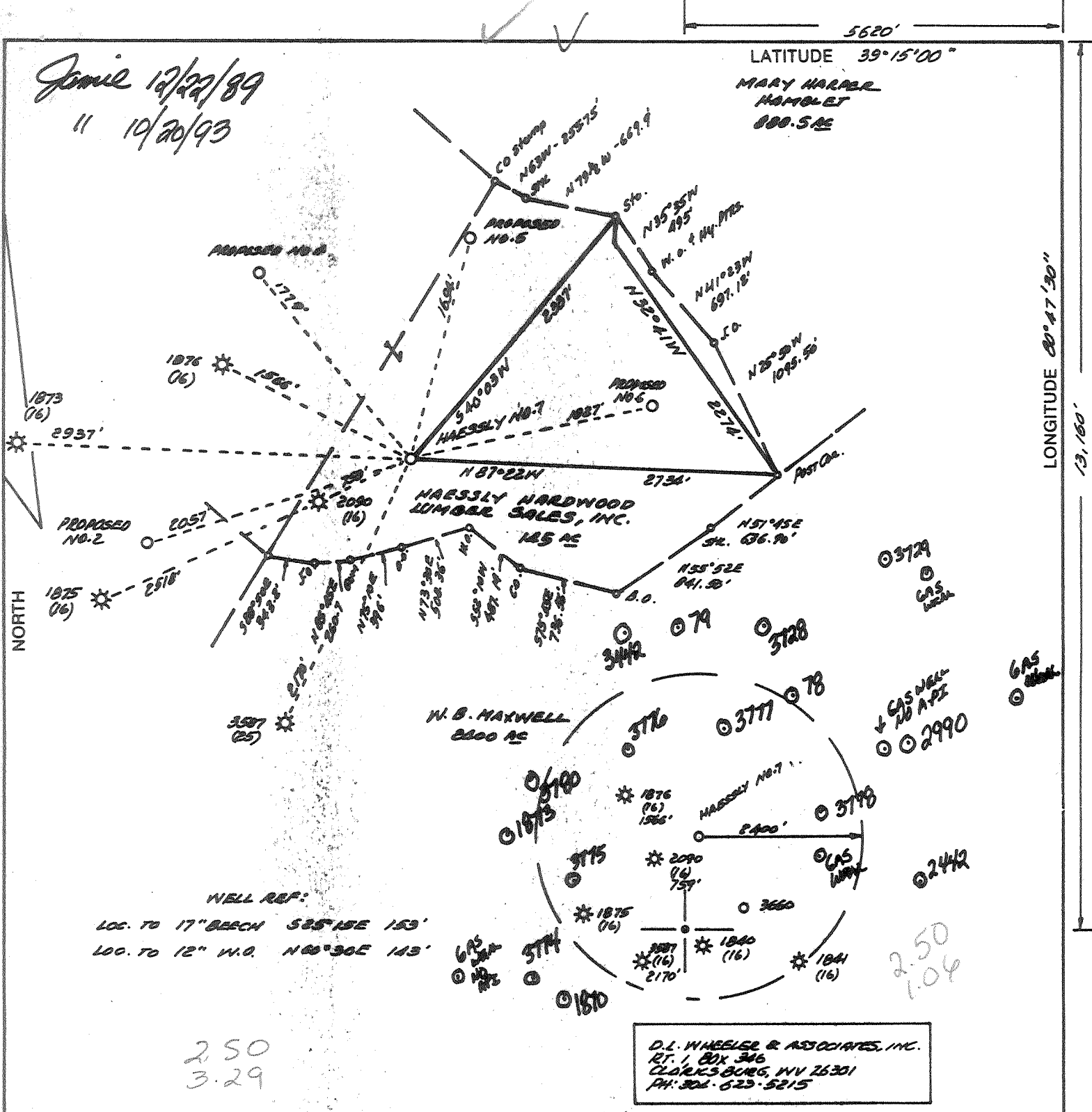


Janie 12/22/89  
 11 10/20/93

LATITUDE 39°15'00"

MARY HARPER  
 HAMBLET  
 800.5AE



NORTH

LONGITUDE 80°47'30"

WELL REF:  
 LOC. TO 17" BENCH S85°15E 153'  
 LOC. TO 12" W.O. N86°30E 143'

2.50  
 3.29

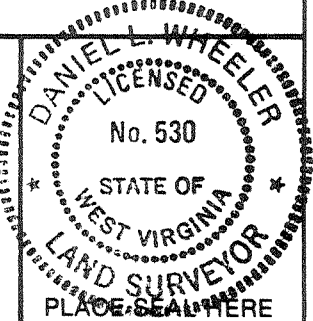
D.L. WHEELER & ASSOCIATES, INC.  
 RT. 1, BOX 346  
 CLARKSBURG, WV 26301  
 PH: 304-623-5215

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION WELL API # 3728  
 ELEV. 1313'

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) Daniel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. 530  
 DANIEL L. WHEELER



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE DECEMBER 7, 1989  
 OPERATOR'S WELL NO. HAESSLY NO. 7  
 API WELL NO.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1053' WATER SHED SHARP RUN  
 DISTRICT SOUTH WEST COUNTY DOODRIDGE  
 QUADRANGLE OXFORD 7.5' Jolbrook NE  
 SURFACE OWNER HAESSLY HARDWOOD LUMBER SALES, INC. ACREAGE 615  
 OIL & GAS ROYALTY OWNER ELI NUTTER MRS. LEASE ACREAGE 615  
 LEASE NO. \_\_\_\_\_

47 - 017 - 37797  
 STATE COUNTY PERMIT

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Full New Formation

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'  
 WELL OPERATOR TERM ENERGY CORP. DESIGNATED AGENT JEAN FREELAND  
 ADDRESS 110 N. SPRING STREET ADDRESS 110 N. SPRING STREET  
HARRISVILLE, WV 26362 HARRISVILLE, WV 26362

COUNTY NAME

PERMIT

Dood  
 3779

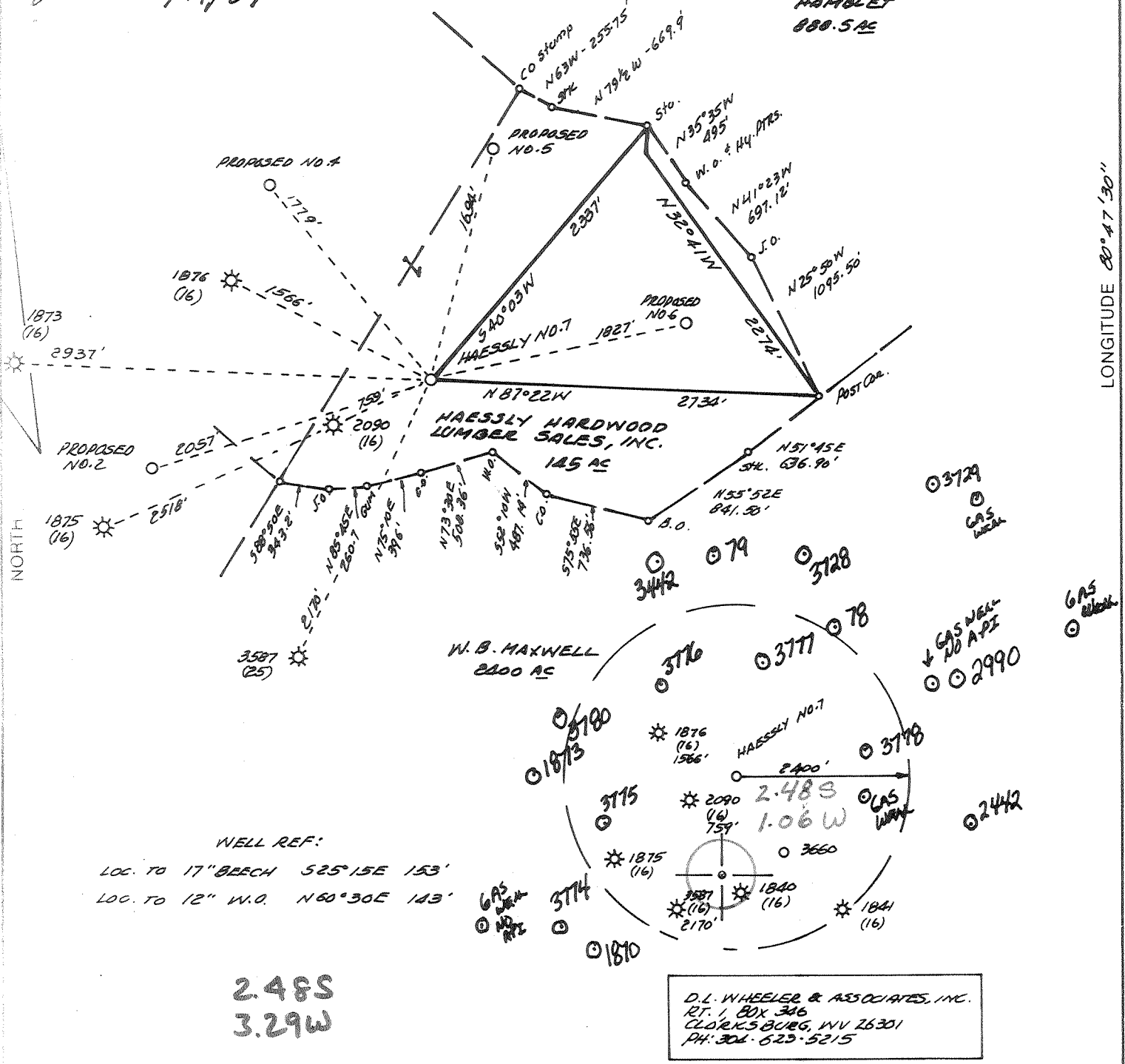
OCT 27 1989

(133)

*Janie 12/22/89*

LATITUDE 39°15'00"

MARY HARPER  
HAMBLET  
880.5 AC



5620'

LONGITUDE 80°47'30"

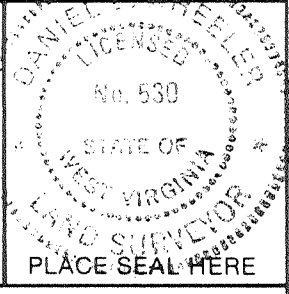
2.48S  
3.29W

D.L. WHEELER & ASSOCIATES, INC.  
RT. 1, BOX 346  
CLARKSBURG, WV 26301  
PH: 304-623-5215

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=1000'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION WELL API # 3728  
ELEV. 1913'

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) *Daniel L. Wheeler*  
R.P.E. \_\_\_\_\_ L.L.S. 530  
DANIEL L. WHEELER



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE DECEMBER 7, 1989  
OPERATOR'S WELL NO. HAESSLY NO. 7  
API WELL NO.

47 - 017 - 3779  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1053' WATER SHED SHEEP RUN  
DISTRICT SOUTH WEST 7 COUNTY DODDRIDGE  
QUADRANGLE OXFORD 7.5' 526 Holbrook NE  
SURFACE OWNER HAESSLY HARDWOOD LUMBER SALES, INC. ACREAGE 615  
OIL & GAS ROYALTY OWNER ELI NUTTER HRS. LEASE ACREAGE 615  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X 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 ALEXANDER ESTIMATED DEPTH 5500'  
WELL OPERATOR TERM ENERGY CORP. DESIGNATED AGENT JEAN FREELAND  
ADDRESS 110 N. SPRING STREET ADDRESS 110 N. SPRING STREET  
HARRISVILLE, WV 26362 886 HARRISVILLE, WV 26362

6-6 Straight Fork-Bluestone Creek (133) DEC 29 1989

COUNTY NAME PERMIT

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

Environmental Protection  
NOV 29 93  
Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HAESSLY HARDWOOD LUMBER Operator Well No.: HAESSLY #7

LOCATION: Elevation: 1,053.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 13160 Feet South of 39 Deg. 15Min. Sec.  
Longitude 5620 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: TERM ENERGY CORP.  
713 EAST MAIN STREET  
HARRISVILLE, WV 26362-0000

Agent: JEAN FREELAND

Inspector: MIKE UNDERWOOD  
Permit Issued: 10/21/93  
Well work Commenced: 11-15-93  
Well work Completed: 11-15-93  
Verbal Plugging  
Permission granted on:

Rotary N/A Cable          Rig  
Total Depth (feet) N/A  
Fresh water depths (ft) 45' & 260"

Salt water depths (ft) N/A

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"	1146'	1146'	342.2
4 1/2"	5202'	5202'	748

OPEN FLOW DATA

Producing formation Alexander & Third Riley Pay zone depth (ft) 5307-4588  
Gas: Initial open flow          MCF/d Oil: Initial open flow          Bbl/d  
Final open flow 120 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests          Hours  
Static rock Pressure 230 psig (surface pressure) after 72 Hours

Comingled Production

Second producing formation Weir Pay zone depth (ft) 2064-2159  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 250 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests          Hours  
Static rock Pressure 420 psig (surface pressure) after 24 Hours

new zone  
compl

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  
TERM ENERGY CORP

By: Jean Freeland  
Date: November 22, 1993

Reviewed TMG  
Recorded         

NOV 30 1993

HAESSLY #7

11-15-93

PERFORATED: WEIR 2064 - 2159; 20 HOLES .39

SET WIDE MOUTH PLUG AT 2173'

ONE STAGE ENGERGIZED WATER FRAC.

- WEIR:

MAX TR PRESS 2480; AVG RATE 31; AVG PRESS 2300;  
40,000# 20/40; 5,000# 80/100; MAX CONC 4; TOTAL  
ACID 750 GAL; ISIP 1500; 10 MIN SIP 1270; TOTAL  
NITROGEN 177,100 SCF; TOTAL FLUIDS 612 BBLs.

TO 5220

DF - 424

DFT - 439

sc/81

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FEB 13 1990

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

DIVISION OF OIL & GAS Well Operator's Report of Well Work  
DEPARTMENT OF ENERGY

Farm name: HAESSLY HARWOOD LUMBER Operator Well No.: HAESSLY #7

LOCATION: Elevation: 1053.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 13160 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude 5620 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: 01/24/90  
Well work Completed: 02/07/90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5220  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) 45 and 260

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"	1146'	1146'	342.2
4 1/2"	5202	5202	748

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 5307-5061  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 775 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1250 psig (surface pressure) after 23 Hours

co-mingled production  
Second producing formation Third Riley Pay zone depth (ft) 4588-4596  
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

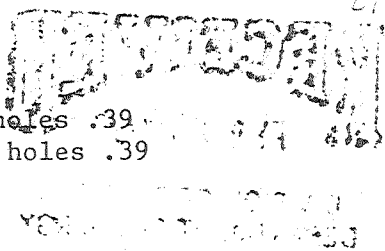
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: TERM ENERGY CORP.

By: Jean Freeland, Agent  
Date: 2-8-90

FEB 23 1990

017-3779



2-7-90 Perforated

Alexander 5037-5061; 14 holes .39  
Third Riley 4588-4596; 9 holes .39

2 stage Frac-  
1st stage Water Frac  
2nd stage Energized Water Frac

-Alexander; max TR Press 3200, Avg Rate 28.6, Avg Press 2577, 50,000# 20/40; 10,000# 80/100; max conc. 4, total acid 500 gal, ISIP 1269, 5 min SIP 1037, Total Fluid 792 BBls.

-Third Riley; max TR Press 3438, Avg Rate 17.6, Avg Press 2526, 25,000# 20/40; 7,500# 80/100; max conc. 4, Total acid 500 gal, ISIP 1340, 5 min SIP 1139, Total Nitrogen 90,000 scf Total fluids 398 BBls.

<u>Well Log</u>	<u>Top</u>	<u>Bottom</u>
Sand, Shale, RR	0	1771
Big Lime	1771	1845
Big Injun	1845	1900
Sand & Shale	1900	5220

water  
45' - 1/2" stream  
260' - 1/2" stream

<u>Geophysical Log</u>	<u>Top</u>	<u>Bottom</u>
Big Lime	1761	1825
Big Injun	1825	1902
Weir	2056	2176
Berea	2256	2262
Gordon Group	2482	2636
Warren	3122	3178
Upper Speechly	3202	3290
Speechly	3708	3754
Balltown	4071	4234
Bradford	4293	4373
Riley	4554	4688
Benson	4748	4756
Leopold	4882	4960
Alexander	4998	5096

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FEB 13 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Issued 12/26/89  
 Expires 12/26/91  
 Page of

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

- 1) Well Operator: TERM Energy Corporation 49105 (7) 525
- 2) Operator's Well Number: Haessly #7 3) Elevation: 1047
- 4) Well type: (a) Oil    / or Gas x /  
 (b) If Gas: Production x / Underground Storage    /  
 Deep    / Shallow x /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 80' 234', 183', 137', 153'
- 8) Approximate salt water depths: 0 1183'
- 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 Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16 11 3/4"	J-55	75# 42#	15' 22'	0	0
Fresh Water	8 5/8"	J-55	20#	1147'	1147'	0
Coal						
Intermediate						
Production	4 1/2"	J-55	11.6 10.5	84 5058	84 5058	250
Tubing						
Liners						

*Handwritten notes:*  
 0.16  
 1183'  
 3BCSR18-11.3  
 3BCSR18-11.2.2  
 3BCSR18-11.1

**RECEIVED**  
 DEC 29 1989

PACKERS : Kind     
 Sizes     
 Depths set   

For Division of Oil and Gas Use Only  
 DIVISION OF OIL AND GAS  
 DEPARTMENT OF ENERGY

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

551  
 33

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DEC 20 1989

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

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1)  
2)  
3)

Date: December 14, 1989  
Operator's well number  
Haessly #7  
API Well No: 47 - 017 - 3779  
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 \_\_\_\_\_
- 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

\_\_\_\_\_ 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: [Signature]  
Its: Agent  
Address 110 North Spring Street  
Harrisville, WV 26362  
Telephone 304 643-4500

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

[Signature] Notary Public  
My commission expires 4/13/95



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

Issued 10/21/93

Expires 10/21/95

- 1) Well Operator: 886 Term Energy Corporation 49105 (7) 326
- Operator's Well Number: Haessly #7 47-17-03779 3) Elevation: 1053
- Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- Proposed Target Formation(s): 430 Weir, Berea, Gordon, Balltown, & Bradford
- Proposed Total Depth: 5202 actual feet
- 7) Approximate fresh water strata depths: 45' and 260' actual
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No XX /
- 11) Proposed Well Work: Set small mouth plug, Frac Balltown and Bradford.  
Set wide mouth plug, Frac Weir, Berea and Gordon 3925 - 4340'
- 12) Comingle with Lower Production 2060 -2500'

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	
Conductor	11 3/4"	J-55	42#	25'	0
Fresh Water	8 5/8"	J-55	20 and 23#	1146'	1146'
Coal					
Intermediate					
Production	4 1/2"	J-55	10.5# 11.6#	5202	5202
Tubing					
Liners					

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

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

18125

1) Date: September 29, 1993  
2) Operator's well number  
Haessly #7  
3) API Well No: 47 - 17 - 03779 - FRAC  
State - County - Permit

STATE OF WEST VIRGINIA  
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:</p> <p>(a) Name <u>Haessly Hardwood LUmber Sales</u><br/>Address <u>Rt. 1 Newport Pike</u><br/><u>Marietta, OH 45750</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____<br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____<br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Rt. 2 Box 114</u><br/><u>Salem, WV 26436</u><br/>Telephone <u>(304)- 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:

- XX Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

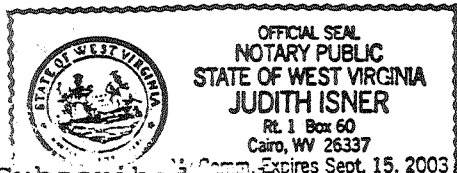
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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 Freeland *Jean Freeland*  
 Its: Designated Agent  
 Address 713 E. Main St.  
Harrisville, WV 26362  
 Telephone (304) 643-4500



Subscribed and sworn before me this 13<sup>th</sup> day of October, 1993

*Judith Isner*  
 \_\_\_\_\_ Notary Public  
 My commission expires September 15, 2003