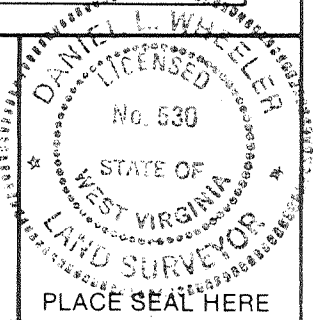


D.L. WHEELER & ASSOCIATES, INC.
 RT. 1, BOX 346
 CLARKSBURG, WV 26301
 PH: 304-623-5215

(+) 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 ADI# 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 NOVEMBER 12, 19 89
 OPERATOR'S WELL NO. HAESSLY NO. 5
 API WELL NO.

47 - 017 - 3777
 STATE COUNTY PERMIT

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

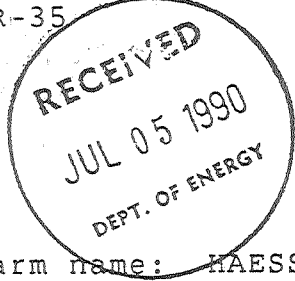
LOCATION: ELEVATION 1185' WATER SHED SHEEP RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' 526 Holbrook NE

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 HARRISVILLE, WV 26362

COUNTY NAME PERMIT



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 #5

LOCATION: Elevation: 1185.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
 Latitude: 11520 Feet South of 39 Deg. 15Min. 0 Sec.
 Longitude 5190 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: 05/25/90
 Verbal Plugging
 Permission granted on: _____
 Rotary X Cable _____ Rig
 Total Depth (feet) 5339
 Fresh water depths (ft) 235 and 1370
 Salt water depths (ft) None

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"	1391.85'	1391.85'	397.95
4 1/2"	5324.1'	5324.1'	771.95

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

OPEN FLOW DATA

Producing formation Alexander, Benson Pay zone depth (ft) 4873-5177
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 900 MCF/d Final open flow 1 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 625 psig (surface pressure) after 16 Hours
 Comingled Production-See back for perforated zones
 Second producing formation _____ Pay zone depth (ft) 2175-4455
 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: Jean Freeland
 TERM ENERGY CORP.

By: Agent Jean Freeland
 Date: 5/30/90

JUL 6 1990

5/25/90 PERFORATED

Alexander	----	5160-5177;	13 holes	.39
Benson	----	4873-4875;	3 holes	.39
Bradford	----	4453-4455;	3 holes	.39
Lower Balltown	--	4331-4336;	4 holes	.39
Upper Balltown	--	4001-4034;	9 holes	.39
Middle Speechly	--	3623-3658;	6 holes	.39
Upper Speechly	---	3393-3394;	2 holes	.39
Warren	----	3274-3278;	5 holes	.39
Gordon	----	2605-2608;	6 holes	.39
Berea	----	2370-2372;	3 holes	.39
Weir	----	2175-2268;	14 holes	.39

4 STAGE WATER FRAC:

- Alexander & Benson: Max TR Press 3525, Avg. Rate 26, Avg. Press 2548, 45,000# 20/40, 10,000# 80/100, Max. Conc. 4, Total acid 500 gal, ISIP 1720, 5 min SIP 946, Total Nitrogen 110,000 SCF, Total Fluids 548 Bbls.
- Bradford & Balltown: Max TR Press 2995, Avg. Rate 30.6, Avg. Press 2650, 36,000# 20/40, 10,000# 80/100, Max. Conc. 4, Total acid 625 gal, ISIP 978, 5 min SIP 800, Total Fluids 500 Bbls.
- Speechly & Warren: Max TR Press 2750, Avg. Rate 33, Avg. Press 2382, 38,000# 20/40, 10,000# 80/100, Max. Conc. 4, Total acid 1000 gal, ISIP 946, 5 min SIP 853, Total Fluids 509 Bbls.
- Gordon, Berea & Weir: Max TR Press 3106, Avg. Rate 26.9, Avg. Press 2802, 40,000# 20/40, 5,000# 80/100, Max. Conc. 4, Total Acid 100 gal, ISIP 1690, 5 min SIP 1315, Total Nitrogen 70,000 SCF, Total Fluids 500 Bbls.

<u>WELL LOG</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>WATER</u>
Sand, Shale & RR	-0-	1865	235 - Damp
Big Lime	1865	1955	1370 - 1 1/2" Stream
Big Injun	1955	2007	
Sand & Shale	2007	5339	

<u>GEOPHYSICAL LOG</u>	<u>TOP</u>	<u>BOTTOM</u>
Big Lime	1866	1929
Big Injun	1929	2012
Weir	2166	2285
Berea	2368	2374
Gordon Group	2592	2754
Warren	3234	3290
Speechly	3304	3867
Balltown	3998	4352
Bradford	4418	4490
Riley	4673	4808
Benson	4871	4877
Leopold	5005	5083
Alexander	5120	5214

10005

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

Expires 12/26/91

- 1) Well Operator: 886 TERM Energy Corporation 49105 (7) 525
- 2) Operator's Well Number: Haessly #5 3) Elevation: 1185
- 4) Well type: (a) Oil / or Gas x /
(b) If Gas: Production / 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, 267, 283'
- 8) Approximate salt water depths: 1307, 0
- 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 J-55	75# 42#	15' 22'		0
Fresh Water	8 5/8"	J-55	20#	1285'	1285'	0
Coal						
Intermediate						
Production	4 1/2"	J-55	11.6 10.5	84 5221	84 5221	250
Tubing						
Liners						

RECEIVED
DEC 20 1989

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-28 Bond Blanket letter Agent
 (Type)

RECEIVED
DEC 20 1989

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: December 14, 1989
2) Operator's well number
Haessly #5
3) API Well No: 47 - 017 - 3777
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION 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 Harwood Lumber Sales</u>
Address <u>R. D. #1</u>
<u>Marietta, OH</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rt. 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)- <u>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:

- _____ 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

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