

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

API # 47- 17-03847

07-Sep-90
17-03847

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: SCHWARTZMAN #2

LOCATION: Elevation: 1171.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 11830 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 5950 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: 09/10/90
Well work Commenced: 09/19/90
Well work Completed: 10/01/90

Verbal Plugging

Permission granted on: _____ Rig

Rotary Cable _____

Total Depth (feet) 5271

Fresh water depths (ft) 51' & 765'

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.
11 3/4"	25'	0	0
8 5/8"	1279.85'	1279.85'	413
4 1/2"	5250'	5250'	745.8

OPEN FLOW DATA

Producing formation Alexander & Leopold

Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d Pay zone depth (ft) 5143 to 4982

Final open flow _____ MCF/d Initial open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

Comingled Production

Second producing formation see back for zones Pay zone depth (ft) 2174 to 4833

Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d Initial open flow _____ Bbl/d

Final open flow 900 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 960 psig (surface pressure) after 24 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 Jean Freeland, Agent

Date: 10/3/90

JAN 4 1991

SCHWARTZMAN #2

10/1/90	PERFORATED	ALEXANDER	5090 -	5143:	14 HOLES .39
	LEOPOLD	4982 -	4985;	4 HOLES .39	
	BENSON	4831 -	4833;	3 HOLES .39	
	BENSON STRAY	4750 -	4758;	6 HOLES .39	
	BRADFORD	4424 -	4439;	6 HOLES .39	
	GORDON	2594 -	2596;	4 HOLES .39	
	WEIR	2174 -	2270;	11 HOLES .39	

THREE STAGE FRAC
TWO STAGES ENERGIZED WATER FRAC
ONE STAGE WATER FRAC

- ALEXANDER & LEOPOLD: MAX TR PRESS 2470; AVG RATE 33.5; AVG PRESS 2110;
56,000# 20/40; 10,000# 80/100; MAX CONC 4;
TOTAL ACID 500 GAL; ISIP 1120; 5 MIN SIP
960; TOTAL NITROGEN 120,000 SCF; TOTAL FLUIDS
754 BBLs

- BENSON & BENSON STRAY: MAX TR PRESS 3610; AVG RATE 17.5; AVG PRESS 3090;
40,000# 20/40; 10,000# 80/100; MAX CONC 3.5;
TOTAL ACID 630 GAL; ISIP 1210; 5 MIN SIP 990;
TOTAL NITROGEN 100,000 SCF; TOTAL FLUIDS 646 BBLs

- GORDON & WEIR: MAX TR PRESS 3720; AVG RATE 13; AVG PRESS 3340;
16,000# 20/40; 5,000# 80/100; MAX CONC 2;
TOTAL ACID 840 GAL; ISIP 1690; 5 MIN SIP 1600;
TOTAL FLUIDS 422 BBLs

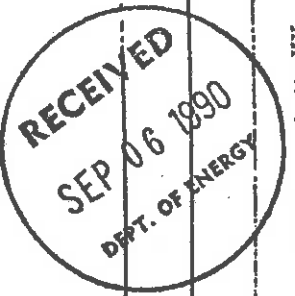
WELL LOG	TOP	BOTTOM	WATER
SAND, SHALE & RR	0	1872	1/2" STREAM @ 51'
BIG LIME	1872	1980	1 1/2' STREAM @ 765'
BIG INJUN	1980	2008	
SAND & SHALE	2008	5271	

GEOPHYSICAL	TOP	BOTTOM
BIG LIME	1864	1940
BIG INJUN	1940	2010
WEIR	2163	2285
GORDON	2592	2598
WARREN	3222	3276
SPEECHLY	3290	3841
BALLTOWN	2974	4342
BRADFORD	4396	4462
BENSON STRAY	4742	4764
BENSON	4829	4837
LEOPOLD	4950	5038
ALEXANDER	5073	5174

11231

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION
 886
 TERM Energy Corporation 49105 (7) 525
 Page of
 Issued 9/10/90
 Expires 9/10/92

- 1) Well Operator: TERM Energy Corporation 49105 (7) 525 Elevation: 1171'
- 2) Operator's Well Number: Schwartzman #2 3) Elevation: 1171'
- 4) Well type: (a) Oil / or GasXX /
 (b) If Gas: ProductionXX / Underground Storage /
Deep / ShallowXX /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5400 feet
- 7) Approximate fresh water strata depths: 160'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes NoXX /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)



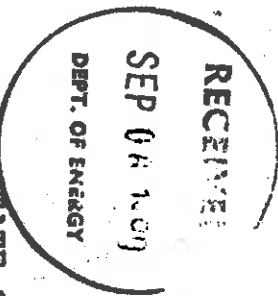
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Conductor	11 3/4"	J-55	42#	17'	0'		
Fresh Water	8 5/8"	J-55	20#	1190'	1190'		
Coal			23#	81'	81'		
Intermediate							
Production	4 1/2"	J-55	11.6#	84'	84'		
Tubing			10.5#	5177'	5177'		
Liners							

PACKERS : Kind _____
 Sizes _____
 Depths set _____

14225
 Fee(s) paid: 14225 Well Work Permit 14225 Reclamation Fund 14225 WPCP
 Plat 14225 WW-9 14225 WW-2B 14225 Bond L.C. Blumpe Agent
 (Type)

11231



1) Date: August 24, 1990
2) Operator's well number
Schwartzman #2
3) API Well No: 47 -
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 Beatrice Schwartzman
Address Thomas Porter, Agent
Rt. 18N Box 39, West Union, WV 26456

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator:

Name None
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) - _____

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 Corp.

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

Subscribed and sworn before me this 5th day of September, 1990

[Signature] Notary Public
My commission expires Sept. 21, 1998



OFFICIAL SEAL
Notary Public, State of West Virginia
MICHAEL B. RING
Rt. 2, Box 31
Harrisville, W. Va. 26362

My Commission Expires September 21, 1998
Subscribed and sworn before me this _____ day of _____, 1990