



6-6 Straight Fork-Bluestone Greek (122) DEC 29 1989



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

Well Operator's Report of Well Work

Farm name:	HAESSLY	HARDWOOD	LUMBER	Operator	Well	No.:	HAESSLY	#4
rarm name:	NACOOLI	MARDWOOD	LUNDER	Operacor	8 4 C	74 O		7

LOCATION: Elevation: 1,198.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE Latitude: 11920 Feet South of 39 Deg. 15Min. Sec. Longitude 6700 Feet West of 80 Deg. 41 Min. 30 Sec.

Company: TERM ENERGY CORP. Casing | Used in | Left 713 EAST MAIN STREET |Fill Up| HARRISVILLE, WV 26362-0000 Tubing | Drilling | in Well|Cu. Ft. | Agent: JEAN FREELAND Size Inspector: MIKE UNDERWOOD Permit Issued: 06/08/94 15 06/14/94 Well work Commenced: 06/15/94 Well work Completed: Verbal Plugging Permission granted on:____ Rotary N/A Cable Total Depth (feet) N/A8 5/8" 1276.30' | 1276.30' | 360.81 Fresh water depths (ft) 1368' Salt water depths (ft) N/A 5273.51 <u>.5273.5'</u>_. Is coal being mined in area (Y/N)?N Coal Depths (ft):

OPEN FLOW DATA

Producing formation Alexander-Riley-Bradford—Pay zone depth (ft)4020-5190

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow 164 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests Hours

Static rock Pressure 210 psig (surface pressure) after 24 Hours

Second producing formation Weir Pay zone depth (ft)

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 268 MCF/d Final open flow show Bbl/d
Time of open flow between initial and final tests Hours

Static rock Pressure 520 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.

By: Jean Freeland
Date: July 7, 1994 Pengnaka agast

HAESSLY #4

06-15-94

2192 - 2214; 15 HOLES .39 2260 - 2285 25 HOLES .39 PERFORATED: UPPER WEIR

LOWER WEIR

SET WIDE MOUTH PLUG AT 2300'

TWO STAGE ENERGIZE WATER FRAC

- UPPER WEIR: MAX TR PRESS 3280; AVG RATE 21; AVG PRESS 2300;

> 28,100# 20/40; MAX CONC 3; TOTAL ACID 500 GAL; ISIP 2570; 10 MIN SIP 1350; TOTAL NITROGEN 62,500 SCF;

TOTAL FLUIDS 429 BBLS.

LOWER WEIR: MAX TR PRESS 2650; AVG RATE 27; AVG PRESS 2500;

40,000# 20/40; MAX CONC 3; TOTAL ACID 500 GAL; ISIP

1530; 5 MIN SIP 1330; TOTAL NITROGEN 88,750 SCF;

TOTAL FLUIDS 571 BBLS.

RECEIVED

JUL 05 1990

DEPT. OF ENERGY

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 #4

LOCATION: Elevation: 1198.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 11920 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 6700 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: TERM ENERGY CORP. 110 N. SPRING ST. Casing | Used in Left |Cement | HARRISVILLE, WV 26362-0000 & Tubing | Drilling | in Well|Cu. Ft.| Agent: JEAN FREELAND Size Inspector: MIKE UNDERWOOD Permit Issued: 12/26/89 Well work Commenced: 12/28**/9**9 Well work Completed: 05/10/90 Verbal Plugging 11 3/4" | 25 -0-Permission granted on: Rotary X Cable Total Depth (feet) 1276.30 1276.30 Fresh water depths (ft) 1368' 360.81 Salt water depths (ft) None 5273.5 Is coal being mined in area (Y/N)? N Coal Depths (ft):

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft	5150 to
rioddeing formation Alexander Pay zone depth (it) 5190
Gas: Initial open flow MCF/d Oil: Initial open flow	Bbl/d
Final open flow 760 MCF/d Final open flow	Bbl/d
Time of open flow between initial and final tests	Hours
Static rock Pressure 1000 psig (surface pressure) after 1	4 Hours
Comingled Production Riley, Bladford,	4020 to
Second producing formation Balltown Pay zone depth (ft) 4727
Gas: Initial open flow MCF/d Oil: Initial open flow	Bb1/d
Final open flow MCF/d Final open flow	Bbl/d
Time of open flow between initial and final tests	Hours
Static rock Pressurepsig (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.

JUL 6 1990

For:	TERM ENERGY CORP.	1111 C	1990
		with the s	1330
	By: flan Theland	agent	
	Date: <u>5-11-90</u>	7	

5/9/90	Perforated	Alexander		5150-5190;	17	Holes	.39
		Riley	-	4724-4727;	4	Holes	.39
		Bradford		4463-4479;	11	Holes	.39
		Balltown	-	4020-4347:	16	Holes	.39

3 Stage Water Frac:

- Alexander; Max TR Press 2885, Avg. Rate 30.9, Avg. Press 2485, 55,000# 20/40; 10,000# 80/100, Max Conc. 4, Total Acid 500 Gal., ISIP 1200, 5 min SIP 915, Total Fluids 720 Bbls.
- Bradford & Riley; Max TR Press 3556, Avg. Rate 26, Avg. Press 3069, 40,000# 20/40; 10,000# 80/100, Max conc. 4, Total Acid 1000 Gal, ISIP 1355, 5 min SIP 950, Total Fluids 681 Bbls.
- Balltown; Max TR Press 2984, Avg. Rate 31.1, Avg. Press 2514, 55,000# 20/40; 10,000# 80/100, Max Conc. 4, Total Acid 1000 Gal., ISIP 1038, 5 min SIP 1011, Total Fluids 649.3 Bbls.

WELL LOG	TOP	BOTTOM	WATER
Sand, Shale, & RR Big Lme Big Injun Sand & Shale	-0- 1885 1954 2009	1885 1954 2009 5408	1368" - 2" Stream
GEOPHYSICAL LOG	TOP	воттом	
Big Lime Big Injun Weir Berea Gordon Group Warren Speechly Balltown Bradford Riley	1881 1944 2181 2382 2608 3245 3317 4011 4426 4684	1944 2023 2304 2388 2761 3304 3875 4368 4502 4820	
Benson Leopold Alexander	4878 5015 5132	4890 5095 5228	

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Daned 12/26/89

12/26/89

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) Well Op	erator:	TERM En	ෙරිර් ergy Corpora	ation 4910.	5 (7)		525
2) Operato	r's Well	Number:_	Haessly #4		3) Ele	vation: 1198
			or Ga				
			Productio	n <u>x</u> / Underg	round Sta	orage	/ /
5) Proposed	d Target	Formation		ander 439			
S) Proposed	d Total De	epth:	5500	feet			
					80 292	129	9'433'
3) Approxim	nate salt	water de	pths:	/	0		
*			oths:		0		
l@) Does lar	1		**) V	
			and Stimula		ive mine	r res	5/ No_x/
.2)		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	did beimara	ce new well			•
1	. *	CASIN	G AND TUB	ING PROGRAM			
XBE	; SF	ECIFICAT	IONS	FOOTAGE I	NTERVALS	:	CEMENT
	Size	_Grade	Weightper_ft.	Fordrilling	Left i	n	Fill-up
onductor	16 11 3/4"	J-55 J-55	75# 42#	15' 22'	well 0		(cu. ft.)
resh Water	8 5/8"	J-55	20#	1298'	GS 1298' _	A	0. 678
oal							3ACSR19-11.3
ntermediate							18C51818-11-22
roduction	4 1/2"	J-55	11.6# 10.5#	84 ¹ 5234 ¹	84¹ 5234¹	7	38CSP19-11-1
ubing							
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7,33 Dep	es ths set _					(4)	DEC 2 0 1999
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Fee(s) pa	ald: (1)	l Wall w.	ork Permit		amation I		I WPCP

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DEPARTMENT OF LICERTY

Date: Decer	mber l	4. 1989	
Operator's	well	number	
<u>Haessly</u>	#4		
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CVISION OF ON 2 CAS 3) API Well No: 47 - 017 - 3776
State - County - Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

1) 2)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name <u>Haessly Hardwood Lumber Sales</u>	Name N/A
	Address R.D. #1	Address
	Marietta, OH (b) Name	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name N/A
		Address
	(c) Name	
	Address	Name
		Address
6)	Inspector Mike Underwood	(c) Coal Lessee with Declaration
•	Address Rt. 2. Box 135	Name N/A
	Salem. WV 26426	Address
	Telephone (304)- 782-1043	
	TO THE PERSON(S) NAMED ABO	OVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
Contracting Contracting Section .	racts by which I hold the right to	· · · · · · · · · · · · · · · · · · ·
	Included is the information require	
sect.	ion 8(d) of the Code of West Virgin	
		napter 22B of the West Virginia Code
	ve served copies of this notice and	
accor	mpanying documents pages 1 through	
	Personal Service (Affidavit at	
	Certified Mail (Postmarked pos	
	Publication (Notice of Publication)	ation attached)
	case and case from the wind with this case case case one case case case case case case case cas	MO COD COD COD COD COD COD COD COD COD CO
	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
to the	he terms and conditions of any perm	it issued under this application.
	I certify under penalty of law that	t I have personally examined and am
fami	liar with the information submitted	
atta	chments, and that based on my inqui-	ry of those individuals immediately
raen	onsible for obtaining the information	or I believe that the information
	rue, accurate, and complete.	on, I believe that the information
LO C.		
:	I am aware that there are signification	
inro:	rmation, including the possibility	_
	Well Operator.	TERM Energy Corporation
	By:	lan Delland
	Its: Agent U	
		North Spring Street
		risville, WV 26362
	Telephone	
Subs	cribed and sworn before me this 44	day of becember , 19 89
		BUIL I
	ZaD11.	Slew Notary Public
Му с	ommission expires/ 4//3	3/95