

Environmental Protection NOV 0 2 1994

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

pernitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: WEST, HAZEL

Operator Well No.: HAZEL WEST #1

LOCATION: Elevation: 978.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE Latitude: 10190 Feet South of 39 Deg. 12Min. 30 Sec. Longitude 1240 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: TERM ENERGY CORP.

713 EAST MAIN STREET

HARRISVILLE, WV 26362-0000

Agent: JEAN FREELAND

Inspector: MIKE UNDERWOOD

Permit Issued: 06/27/94
Well work Commenced: 9-16-94

Well work Completed: 9-22-94

Verbal Plugging

Permission granted on:

Rotary Cable Rig

Total Depth (feet) 5077 Actual

Fresh water depths (ft) 75

Salt water depths (ft) ______none

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

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	
Size			
11_3/4"	17.'	00	
8_5/8"	_1097'	 1097!	435
4 1/2"	_5077.	5077'	573.8
		·	<u> </u>

OPEN FLOW DATA

Producing formation Alexander & Riley	Pay zone depth (ft)4286-5026
Gas: Initial open flow MCF/d Oil:	Initial open flow Bbl/d
Final open flow 95 MCF/d	
Time of open flow between initial a	and final tests Hours
Static rock Pressure 190 psig (surfa	ace pressure) after 24 Hours
Comingled Draduction	

Comingled Production
Second producing formation Weir, Big Injerty zone depth (ft) 828.5-2464.

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow 444 MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests Hours Static rock Pressure 560 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: Ossignated agent
Date: 11-1-94



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

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Company: TERM ENERGY CORP.	dead hand lived dista blad there took were any	M 2004 6000 0000 0000 Mas 0000 Mas 0000 0000		*** *** *** *** *** *** *** ***
110 N. SPRING ST. HARRISVILLE, WV	Casins %	Used in	l Left I	Cement Fill Up
Asent: KATHY D. JARVIS	Tubins	Drilling	l in Well	ICu. Ft.I
	Size		equipped and the second	1
Inspector: MIKE UNDERWOOD Fermit Issued: 05/04/88	11-3/4	17 '	0	
Well work Commenced: 5/31/88 Well work Completed: 6/10/88			1	
Verbal Plussins	8-5/8	1097	1097'	300 sacks
Fermission granted on: RotaryX Cable Rig	1	* ***** **** **** **** **** **** **** ****		
Total Derth (feet)5139'	4-1/2	5077	5077	235sacks
Fresh water depths (ft)				
Salt water depths (ft)	2-3/8	TENTE?	atento.	
Is coal beins mined in area (Y/N)?	1	IN E	SEGA	
Coal Derths (ft):		44 A	lug_0 8_198	8_24

OPEN FLOW DATA

The large of the large

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Producing formationAlexander	Pay zone depth (ft) 4932-5026
Gas: Initial open flowMCF/d	Oil: Initial open flowBbl/d
Final open flow 800 MCF/d	Final open flowBbl/d
Time of open flow between init	ial and final testsHours
Static rock Pressure_1200psis (surface pressure) after $-rac{12}{2}$ Hours
Gas: Initial open flowMCF/d Final open flowMCF/d	Final open flowBbl/d
Time of open: flow between init	
Static rock Pressurepsis (surface pressure) afterHours
CO-MINGLED	

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.

	Tathy D. garra	_Aug	-1		500	
For:	TERM ENERGY CORP	1.C.C.	F.	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	TVV	The sky
	By: Ito agent Date: June 14,1988	* **** **** ****		. 		

6/10/88 Perforated Alexander 4952, 5997, 20 holes, .39 Riley 4286, 8 holes, .39

化工具 化工厂 经单位债券 医甲基乙基氏病

AND A LAND TO A A MARKET 2 stage foam frac - Alexander; Max TR Press. 3350, Ave rate 20, Ave Press 2500, 80,000# 20/40; 4,500# 80/ 100; Max Conc. 6, Total Acid 500 gal, ISIP 1250 5 min, Total Nitrogen 658,910 SCF, total fluid 936 bbls,

> Riley; Max TR Press. 3050, Ave rate 20, Ave Press 2450, 48,000# 20/40, 4,500# 80/100, Max Conc 5, ISIP 1490 5 min, Total Nitrogen 391,742 SCF, Total Fluid 579 Bbls

Sand, Shale and RR Lime 1694 1737 Shale 1737 1748 Lime 1748 1826 Sand and Shale 1826 Sig Injun Sand and Shale 1836 Sig Injun Sig Lime Sig Lime Sig Lime Sig Lime Sig Lime Sig Injun Sig Lime Sig Lime Sig Injun Sig Lime Si	Well Log: A properties of a provider	TOP	BOTTOM
Lime Shale 1737 1748 Lime 1748 1826 Sand and Shale 1826 1836 Big Injun Sand and Shale 1836 1869 Sand and Shale 1869 5139 Log Tops: Big Lime Big Lime Big Injun 1808 1887 Weir 2040 2166 Gordon Warren Speechly Balltown Warren 3114 3154 Speechly Balltown RIley Balltown RIley Benson Alexander 4932 5026		0	1694 1/4" stream @ 75'
Shale 1737 1748 Lime 1748 1826 Sand and Shale 1826 1836 Big Injun 1836 1869 Sand and Shale 1869 5139 Log Tops: 1736 1808 Big Lime 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 8alltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Lime	1694	
Lime Sand and Shale Big Injun Sand and Shale Big Injun Sand and Shale Big Lime Big Lime Big Lime Big Lime Big Lime Big Lime Big Log Sand Sand Sand Sand Sand Sand Sand Sand	Shale		
Sand and Shale 1826 1836 Big Injun 1836 1869 Sand and Shale 1869 5139 Log Tops: 1736 1808 Big Lime 1736 1808 Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Lime	1748	
Sand and Shale 1869 5139 Log Tops: 1736 1808 Big Lime 1808 1887 Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Sand and Shale	1826	
Sand and Shale 1869 5139 Log Tops: 1736 1808 Big Lime 1736 1808 Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026		1836	1869
Log Tops: Big Lime Big Injun Reir Gordon Warren Speechly Balltown RILey Benson Alexander 1736 1808 1887 2040 2166 2459 2467 3114 3154 3154 3870 3952 4286 4308 4687 4693 Alexander	Sand and Shale	1869	5139
Big Lime 1736 1808 Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly Balltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026			OUTSTONING WEST PRODUCTION OF THE WASHINGTON OF
Big Lime 1736 1808 Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly Balltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026			
Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Log Tops:	1	
Big Injun 1808 1887 Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026			
Weir 2040 2166 Gordon 2459 2467 Warren 3114 3154 Speechly Balltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Big Lime	1736	1808
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Warren 3114 3154 Speechly Balltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026			
Speechly 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026	Gordon		2407
Balltown 3870 3952 RIley 4286 4308 Benson 4687 4693 Alexander 4932 5026		3114	3154
### Alexander ####################################	Speechly Part of a 378 and		
Benson 4687 4693	BALLTOWN MARKET COMMISSION COMMIS		3332
Alexander (1984) farth, for 1980 of 424. The 4932 of 195026			
	Denson		
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1962年,中国**共**安全(1867年)中国第二个



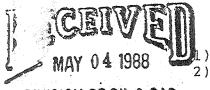
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FORM WW-2B

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

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	486	APPLICATION //O/	75 7	525
l) Well Oper	ator:	TERM E	nergy Corpor	ation γ / ℓ		<u> </u>
2) Operator'	s Well N	umber:	Hazel We	st No. 1	3) Elev	ration: _978!
4) Well type	: (a) 0	il_/	or Gas	<u>x</u> /		
	i -		Deep	/	ound Storage_ Shallow <u>?</u>	
5) Proposed	Target F	ormation((s): Ale	kander 439		*
6) Proposed				611	110' = 25	-\alpha
8) Approxima	ate salt	water st 399 3049 water dep	01/	None	110 9 25	
10) Does land	d contai:	n coal sea	ams tribut	ary to acti	ve mine? Yes	5/ No <u>X_</u> /
11) Proposed						
12)		<u>CASIN</u>	G AND TUBI	NG PROGRAM		
TYPE	S	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4		42	30	30	CTS
Fresh Water	8-5/8		20	1080	1080	6. CTS 38CSR18-11.3
Coal						
Intermediate	·					39CSR18-11-1
Production	4-1/2		10.5	5100	5100	700 sks
Tubing					Source	TEPROPERTY
Liners					1 AB	ASWA GILL
PACKERS : Kir	nd zes				AG MA	1Y 0 4 1988
	oths set	100	Work Bermi	and Gas Use	Only lamation Fund	MENT OF ENERGY
M. Plat	FI WW-9	1/100	-2B 1	Bond <u>503</u>	lanket (Type)	

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



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY 3)

Date:	April_	26, 1988		
Operator	s well	number		
H	azel West	No. 1		
		017	-	3637
	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:	5) (a) Coal Operator: Name None
	(a) Name Hazel West	Address
	Address Box'121 Harrisville WV 26362	Address
		(b) Coal Owner(s) with Declaration
	(b) Name	Name
	Address	Address
	(c) Name	Name*
	Address	Address
		Addi CDD
	. Wishard Underwood	(c) Coal Lessee with Declaration
6)	Inspector Michael Underwood	Name
	Address Rt 2, Box 114	
	Salem WV 26426	Address
	Telephone (304)-	
	TO THE PERSON(S) NAMED	ABOVE TAKE NOTICE THAT:
e- 1	ica of thic notice a	inia (see page 2) Chapter 22B of the West Virginia Code nd application, a location plat, and h on the above named parties, by: attached) postal receipt attached)
fam atta resp is	the terms and conditions of any per I certify under penalty of law to iliar with the information submitted achments, and that based on my incomposible for obtaining the informative, accurate, and complete. I am aware that there are signification, including the possibilited well Operated By: Kathy I Its: Agent Address Har	North Spring Street risville WV 26362 304-643-4500
ر د میکنده میکنده میکند	rerephone	274 day of april, 1988
នធារ	FFICIAL SEAL AND SWOTH before me this	
	lic, State of West Virginia	dyanna & de Notary Public
	DYANNA L. DYE	7 1 minus
HARRI	21 Mingaut Ston expires 9/22/9 SVILLE, W.VA. 26362	MAY 0 9 1988
ommissior	Expires September 22, 1997	1700



FORM WW-2B

017-3637-Frac Damed 06/27/94

| Agent

Page of

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

OG 27/96

326		U 6	586	APPLICATION		
6 Well O	perator: _T	erm Energy	Corporation	49105	2 526	
Operate	or's Well I	Number:	Hazel West	<u> </u>	3) El	evation: 978'
Well t	ype: (a) (Oil_/	or Gas	5_XX/		
	(b)	If Gas:		XX/ Undergr		
) Propose	ed Target 1	Formation	Deep n(s): Gordo	419 on, Weir, Big	Shallo Injun	₩ <u>XX</u> /
	ed Total De					
				hs: 70', 1	10°, & 250°	
B) Approx.	imate salt	water de	epths: No	one		
) Approx	imate coal	seam dep	oths: Nor	ıe		
lO) Does la	and contain	n coal se	ams tribut	ary to acti	ve mine? Y	es/ Nox/
						t from 2650' to
1700';	Set small mou	th frac pl	ug at 2480'.			vide mouth plug
TYPE		PECIFICAT		FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11/3/4"	J-55	42#	17°	00	
resh Water	8 5/8"	J-55	20#	1097'	1097'	Surface 300 sks
Coal						go. une
ntermediate	2					
roduction	4 1/2"	J - 55	10.5#	5077 '	5077 '	3760' 235 sks
ubing						
iners						-
ACKERS : K						
	izes epths set					
	1					
2/14	-			ind Gas Use	_	AMAGA .
Fee(s)	paid: _	_ Well W	Tork Permit	: Recl	amation Fun	d WPCP

Page	1		0	£		
Form	W	W	2	****	A	
(10 - 9)	1)				

KE.	V .		
Emeron .	men	iai e	Ole tee
	0	9	M

1)	Date:	May	31	,]	L 9	9	۷

2) Operator's well number

Hazel West

3) API Well No: 47 - 017 - 3637F State - County - Permit

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface C	wner(s) to	be served:	5) (a) Coal Operator:	a b
•				Name N/A	
		P.O. Box 12		Address	
		Harrisville	. WV 26362		
	(b) Name		, WV 26362	(b) Coal Owner(s) wit	th Declaration
	Address			Name N/A	
				Address	
	(c) Name				
	Address			Name	
				Address	
6)	Inspector	Mike Unde	rwood	(c) Coal Lessee with	Declaration
	Address	Rt. 2 Box	: 114	Name N/A	
		Salem. WV	26426	Address	
	Telephone	(304) - 78	32-1043		
		TO THE PER	RSON(S) NAMED A	BOVE TAKE NOTICE THAT:	
		<u> </u>			-
	Included	ic the lea	se or leases of	r other continuing con	tract or
cont	racte by s	which I hal	d the right to	extract oil and gas O	R
CONC	v ka esser	is the inf	ormation requi	red by Chapter 22B, Ar	Ficle 1.
Cost	ion 0/d/ c	ts cire till	of Wost Virgin	nia (see page 2)	
Secu	TOH O(U)	or the code	or west aridi	Chapter 22B of the Wes	t Virginia Code
~~ 1	I Certily	tnat as r	equired under	d application a locat	ion plat and
ı na	ve served	copies or	this notice and	d application, a locat	d parties by
acco	mpanying o	locuments p	ages I through	on the above name	I parties, by.
	X Pers	sonal Servi	ce (Affidavit	attached)	`
	Cert	rified Mail	. (Postmarked po	ostal receipt attached cation attached))
	Publ	lication (N	otice of Public	cation attached)	
					-
	I have re	ead and und	lerstand Chapte:	r 22B and 38 CSR 11-18	, and I agree
to t	he terms a	and conditi	ons of any peri	mit issued under this	application.
	I certify	z under pen	alty of law the	at I have personally e	xamined and am
fami	liar with	the inform	ation submitted	d on this application	form and all
atta	chments, a	and that ba	sed on my inqu	iry of those individua	ls immediately
resp	onsible fo	or obtainin	g the informat	ion, I believe that th	e information
is t	rue, accui	cate, and c	omplete.		
	I am awaı	re that the	ere are signifi	cant penalties for sub	mitting false
info	rmation.	including t	he possibility	of fine and imprisonm	ent.
			, Well (Operator	Term Energy Corporation	
للأعجب	EST OF	FICIAL SEAL	By: Lean =	Freeland Jean Free	
15/13		c, State of West Virginia	Its: Designat		
	到公司 MICH	IAEL B. RING	Address 713 E		
11/15		t. 2, Box 31) ————————————————————————————————————	sville. WV 26362	
S. S	23030	le, W. Va. 26362		304) 643-4500	
My Co	mmission Expires	September 21, 1998	ore me this 30		, 1994
	errbed and		> >	1 22	* **
	1	10 15			Notary Public
Mrs -	omniania-	OVDIVOO	21 199	3	
rat A C	commission	eybtres -	supral, ill		
			d.		•