





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

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

Farm name: SHIVE, GLENN HAROLD

Operator Well No.: SHIVE 1

LOCATION:

Elevation: 1021.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 13230 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 1000 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: 06/06/89 Well work Commenced: 06/13/89 06/23/89 Well work Completed: Verbal Plugging

Permission granted on:

Rotary x Cable Total Depth (feet) 5094

Fresh water depths (ft)

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	Cu. Ft.
Size			
11 3/4"	25 '	0	
8 5/8"	1152.2	1152.2	397.6
	and the days with anim days and then days o		
4 1/2"	5068'	5068	891.25
	D) \$ (0	TELWI	
		W 29 1989	
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DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Alexander-Leopold Pay zone depth (ft) 4805-5023 Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Bb1/d Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure 1500 psig (surface pressure) after Benson, Benson Stray

n Riley

MCF/d Oil: Initial open flow

Bbl/d Co-mingled Production Second producing formation Gas: Initial open flow O MCF/d Oil: Initial open flow Time of open flow between initial and final tests Final open flow 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

By:

Trelland agent UMI 26

2 Stage Frac-

5-23-89 Perforated Alexander

2nd stage Nitrogen Foam 60 Quality 1st stage Mitrogen Foam 75 Quality

Riley

nosuəg

reopold

Benson Stray

Nitrogen 512, 160 scf, Total fluids 225 BBls. - Alexander, Leopold; Max TR Press 3300, Avg rate 27, Avg Press 2700, 50,000# 20/40, max conc. 4, Total acid 500 gal, ISIP 1250, 5 min SIP 1200, Total

\$6877-1975

:I097-76**9**7

:0897-8497

8 holes .39

es. salod seg. 39

4805-4806; 2 holes .39

4967-5023; I4 holes .39

- Benson, Benson Stray and Riley; Max TR Press 3520, Avg. rate 16, Avg Press 3000, 32,000# 20/40, Max conc. 3 1/2, Total acid 1000 gal, ISIP 3500, Total Mitrogen 308,400 scf., Total fluid 208 BBls.

	2024	LZ67	Alexander
	1897	·	penson
	909 7	1657	Benson Stray
	ل ⁴ 577	የ245	Riley
	3888	867£	Balltown
	3207	308	Warren
•	7643	5729	cordon
	2205	2201	perea
	2118	2001	Metr
	1828	8941	Big Injun
	8941	1702	ğiğ Lime
	AND THE RESIDENCE OF THE PARTY	-	in the second
	BOTTOM	TOP	Geophysical Log
	†60 ⊆	4507	
. 73 1	1837	758T	Sand, & Shale
	1720	1720 1720	nutal 818
200' - Damp	0891	0991	File Lime
-	0991		Shale
Water	0791	0†9T 0	Sand, Shale, RR Little Lime
	MOTTOA	TOP	MEIL LOG

9861 8 8 NUL 1989 TUL 07 1989

DEPARTMENT OF ENERGY DEPARTMENT OF ENERGY DIVISION OF OIL & GAS DIMISION OF OIL & GAS

API # 47- 17-03722F

WR-35 W Division of Environmental Protection

9 - 1 9 1994

State of West Virginia Division of Environmental Protection

Section of Oil and Gas

Pormitting

Office of Oil & Gas Well Operator's Report of Well Work

Farm name: ZORN, MIKE

Operator Well No.: SHIVE #1

LOCATION: Elevation: 1,021.00

Quadrangle: OXFORD

District: SOUTHWEST

County: DODDRIDGE

Latitude: 13230 Feet South of 39 Deg. 12 Min. 30 Sec. Longitude 1000 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

06/16/94 Permit Issued: Well work Commenced:

08/23/94 Well work Completed: 08/31/94

Verbal Plugging

Permission granted on:

Rotary Cable Total Depth (feet) 5068 Actual Fresh water depths (ft) 200'

Salt water depths (ft) None

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

&	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size		**************************************	
11_4/3"	25 <u>'</u>	0	
8_5/8"	1152.5	 1152.5	397.6
4_1/2"	5068*	 5068 '	891.25
		saurana distincia	

OPEN FLOW DATA

Producing formation Alexander, Leopold Benson Pay zone depth (ft) 4261-5023 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow 95 MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure 280 psig (surface pressure) after 24 Hours

Comingled Production

Second producing formation Gordon & Weir Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow 132 MCF/d Final open flow 1
Time of open flow between initial and final tests Bbl/d Hours Static rock Pressure 480 psig (surface pressure) after 12 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.

SEP 17 1994

By: Designated Agent Date: Sept 9, 1994

SHIVE

08-23-94

PERFORATED:

GORDON:

2429 - 2430.5 5 HOLES .39

WEIR:

2010 - 2030.5 13 HOLES .39

SET WIDE MOUTH PLUG AT 2445'

ONE STAGE ENERGIZE WATER FRAC

- GORDON & WEIR:

MAX TR PRESS 3100; AVG RATE 27; AVG PRESS 2946; 35,000# 20/40; MAX CONC 3; TOTAL ACID 500 GAL; ISIP 1680; 5 MIN SIP 1470; TOTAL NITROGEN 87,000 SCF; TOTAL FLUIDS 585 BBLS.

15 Jud 6/8/89 Expers 6/6/91

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

4,	Well (Operator:_	TERM Ener	gy Corporati	ion 49105	7,525	
2)							evation:
4)		ype: (a)					
		(b _j)	If Gas:	Productio Dee	n/ Underg	round Storag Shallo	e/ w/
5)	Propos	ed Target	Formation	n(s): Ale	uzq exander		
6)	Propos	ed Total D	epth:5	300'	feet		•
7)	Approx	imate fres	h water s	strata dep	ths: 160'		
8)	Approx	imate salt	water de	epths: No	ne		
9)	Approx	imate coal	seam dep	oths: No	ne		
10)	Does l	and contain	n coal se	eams tribu	tary to acti	ve mine? Ye	es/ No_x_/
		ed Well Wo:				late Me	
12)				4			
					ING PROGRAM		ec,
TYPE	**************************************	S	PECIFICAT	'IONS	FOOTAGE IN	TERVALS	CEMENT
450500 edinburkopposovoji vradini susumpaga	a Maria de maio de compação por transfer a como ingrar ou para de designar de la participación de la parti	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor	11 3/4"	J-55	42#	17 .	0 ,	385818-11.3
Fresh	Water	8 5/8"	J - 55	20#	1121'	1121, 0.1	Tless
Coal							
Inter	mediate	3					38 SR 18-11.
Produc	ction_	4 1/2"	J - 55	11:6#	126' 4949'	126' 4949'	700
Tubino	9		\$ -				
Liners	5			- Control of the Cont		D)	CENVISIN
PACKE		nd					11 N 1 1000
AP		zes pths set _				DIV	SION OF OIL & GAS
100		Fo	5 Diviso	n of Oil a	nd Gas Use	NEBA	RIMENT OF ENERGY
JH,	Fee(s)	pajg:	Wall W	ork Permit	A Recla	amation Fund	WPCP
	lat S	#W-9	WW-	2B (1) B	ond Blu	ket sur	Agent
0					(:	Type)	<i>y</i>

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



DIVISION OF OIL & GAS 31 DEPARTMENT OF ENERGY

Date: <u>May 25, 1989</u>		
Operator's well number		
Shive #1		
API Well No: 47 - 017	_	3722
State - Counts	7 -	Dormit

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:
- /		
	(a) Name <u>Glen Harold Shive</u>	Name
	Address P.O. Box 224	Address
	Pullman, WV 26421	
	(h) Name	(b) Coal Owner(s) with Declaration
	(b) Name	(n) coar owner(s) with nectaration
	Address	Name
		Address
	(c) Name	
	Address	Name
		Address
		The state of the s
6)	Inspector	(c) Coal Lessee with Declaration
-	Address	Name
		Name
	Telephone (304)782-1043	Address
	1010phone (304) <u>702-1043</u>	
	י ארעננו ואוואסמיות קטיי איי	NOTE: MAYER MONTHS MILES
	TO THE PERSON(S) NAMED 2	ABOVE TAKE NOTICE THAT:
Sect	ion 8(d) of the Code of West Virg	ired by Chapter 22B, Article 1, inia (see page 2)
I ha	I certify that as required under we served copies of this notice as	inia (see page 2) Chapter 22B of the West Virginia Code ad application, a location plat, and a on the above named parties, by: attached) costal receipt attached)
I had according to the family	I certify that as required under we served copies of this notice and impanying documents pages 1 through Personal Service (Affidavit Certified Mail (Postmarked particle) — Publication (Notice of Publication (Notice of Publication and understand Chapter the terms and conditions of any per I certify under penalty of law the liar with the information submitted the chapter and that based on my inquired the information, and that based on my inquired the information, accurate, and complete. I am aware that there are significated and including the possibility with the including the possibilit	Chapter 22B of the West Virginia Code application, a location plat, and attached) costal receipt attached) cation attached) cr 22B and 38 CSR 11-18, and I agree ant issued under this application. at I have personally examined and amed on this application form and alluiry of those individuals immediately cion, I believe that the information cant penalties for submitting false of fine and imprisonment. TERM Energy Corporation N. Spring Street cisville, WV 26362 24) 643-4500
I had according to the family	I certify that as required under we served copies of this notice and impanying documents pages 1 through Personal Service (Affidavit Certified Mail (Postmarked particle) — Publication (Notice of Publication (Notice of Publication and understand Chapter the terms and conditions of any per I certify under penalty of law the liar with the information submitted the chapter and that based on my inquired onsible for obtaining the information, accurate, and complete. I am aware that there are significated and complete are significated and complete. I am aware that there are significated and complete are significated and complete. I am aware that there are significated and complete are significated and complete. I am aware that there are significated and complete are significated and complete. I am aware that there are significated and complete are significated and complete. I am aware that there are significated and complete are significant and complete are si	Chapter 22B of the West Virginia Code ad application, a location plat, and attached) costal receipt attached) cation attached) cr 22B and 38 CSR 11-18, and I agree ant issued under this application. at I have personally examined and amed on this application form and all airy of those individuals immediately cion, I believe that the information cant penalties for submitting false of fine and imprisonment. TERM Energy Corporation N. Spring Street cisville, WV 26362 24) 643-4500

rorm wwz-A	•		3)	API Well No: 47 - 017 - 3722F State - County - Permit
	Form WW2-A (10-91)	The D & DE	2)	Shive #1

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served: (a) Name Mike Zorn	5) (a) Coal Operator: Name N/A
	Address 3613 Mexico St.	Address
	Pittsburgh, PA 15212-1814	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name N/A
	(C) Namo	Address
	(c) Name	Namo v//
	Address	Name N/A
		Address
6)	Inspector Mike Underwood	(c) Coal Lessee with Declaration
-,	Address Rt. 2 Box 135	Name
	Salem WV 26426	Address
	Salem, WV 26426 Telephone (304)-782-1043	
	TO THE PERSON(S) NAMED AR	SOVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
contr	acts by which I hold the right to	extract oil and gas OR
***************************************	Included is the information require	ed by Chapter 22B, Article 1,
Secti	on 8(d) of the Code of West Virgin	
	I certify that as required under Cl	hapter 22B of the West Virginia Code
I hav	ve served copies of this notice and	application, a location plat, and
accon	panying documents pages 1 through	on the above named parties, by:
	Personal Service (Affidavit a	ttached)
	Certified Mail (Postmarked post	stal receipt attached)
	Publication (Notice of Publication	ation attached)
	I have read and understand Chapter	22B and 38 CSR 11-18 and T agree
to th	he terms and conditions of any permi	
		t I have personally examined and am
famil	iar with the information submitted	on this application form and all
a++ac	chments and that based on my inqui-	ry of those individuals immediately
	onsible for obtaining the information	
ie tr	we, accurate, and complete.	on, I believe that the information
شا س	I am aware that there are significations	ant nonalties for submitting false
infor	mation, including the possibility of	of fine and imprisonment
111101		
1 7.4	OFFICIAL SEAL (BV:	Term Energy Corporation
(E) 3.	Notary Public State of West Virginia	Ricland Jean Freeland
(门)	MICHAEL B. RING Designated	
(Viles	Rt. 2, Box 31 Address 713	E. Main St.
A.D. C==		risville, WV 26362
. My Con	nmission Expires September 21, 1998 Telephone (304) Fibed and Sworn before me this 31	
LUNC	Timed and sworn nerote the cuits 215	day of <u>May</u> , 1994
	Mula	Notation Think I in
My co	ommission expires 2 at 1700	Notary Public

FORM WW-2B

5)

6)

7)

8)

9)

10)

11)

12)

IN 0 9

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1943/86				VIRGI		Isse	i kor	ot 06/16/94
CABERATION	M OF	ENERG	Y, DIY	VISION	OF OIL	AND GA	S.	
<u> </u>	VELL V	WORK P	ERMIT	APPLI	CATION	E.	one	06/16/96
	U i		88		0	T	526	

Well Operator: Term Energy Corporation 49.05 (7)
Operator's Well_Number: Shive #1 3) Elevation: 1021:
Well type: (a) Oil_/ or Gas_X/
(b) If Gas: Production XX/ Underground Storage/ Deep/ Shallow XX/
Proposed Target Formation(s): Gordon, Berea, and Weir
Proposed Total Depth: 5068 Actual feet
Approximate fresh water strata depths: 200
Approximate salt water depths: None
Approximate coal seam depths: None
Does land contain coal seams tributary to active mine? Yes / NoXX /

CASING AND TUBING PROGRAM

Proposed Well Work: Set Wide mouth frac plug at 2460', Frac Gordon, Berea & weir Comingle with Lower production.

TYPE	<u> </u>	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/8"	J - 55	42#	17'	0	
Fresh Water	8 5/8"	J-55	20#	1152'	1152'	397.6
Coal						July 1
Intermediate						
Production	4 1/2**	J-55 J-55	11.6# 10.5#	84" 4984 <i>"</i>	84 [†] 4984 [†]	1600 Y 891.25
Tubing						
Liners	*					
		U				

PACKERS : Kind Sizes Depths	set	
23/19	For Divison of Oil and Gas Use Only	
		I_I WPCP
Plat W	W-9	Agent
	(Type)	