

Nov 19 State of West Virginia

Section of Oil and Gas Section 5. Office of Oil & Gas

HERRING, GLEN & ROZENA Farm name: Operator Well No.: G. HERRING #1

LOCATION: Elevation: 2,155.00 Quadrangle: BRANDONVILLE

> District: GRANT County: PRESTON

Latitude: 12250 Feet South of 39 Deg. 45Min. 0 Sec. Longitude 5425 Feet West of 79 Deg. 32 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR				
103 E. MAIN ST P.O. BOX 26 BRIDGEPORT, WV 26330-0026	Casing &	Used in	Left	Cement Fill Up
Agent: ERIC STEARNS	Tubing	Drilling	in Well	
Inspector: PHILLIP TRACY	Size			
Permit Issued: 09/09/96 Well work Commenced: 09/23/96	10 3/4"	21'		
Well work Completed: 10/03/96  Verbal Plugging  Permission granted on:	7''	651'	651'	100 sks
Rotary x Cable Rig Total Depth (feet) 3340' Fresh water depths (ft)	4 1/2"	3050'	3050'	115 sks
Salt water depths (ft)				
Is coal being mined in area $(Y/N)$ ? N Coal Depths (ft): $n/a$				
.~				

## OPEN FLOW DATA

Producing formation	Sheffield	Pay zone depth	(ft)2919-292
Gas: Initial open flow	<pre>v n/a MCF/d Oil</pre>	: Initial open flow	
Final open flow	411 MCF/d	Final open flow and final tests	0 Bbl
Time of open flow	between initial	and final tests	4 Hou
Static rock Pressure_	psig (sur	face pressure) afte	<b>r</b> 72 Hou:
Second producing forma	tionBalltown	Pay zone depth	(ft)2687-269
Gas: Initial open flow	MCF/d Oil	. Initial open flow	
rinal open flow co	-mingled MCF/d	Final open flow and final tests	Bbl
Time of open flow	, between initial	and final tests	Hou

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: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns

Date: November 15, 1996 MON Fr 1950

021

Herring	; #⊥		2183		
STAGE	FORMATION	PERFS	80/100 SKS	20/40 ACID SKS GAL	N2 (MCF)
lst	Sheffield	17 (2919' - 2923')	(1) 宣傳文章	400 500	36
2nd	Balltown	20 (2687' - 2692')	2.786	400 500	35.5
	14.12 <b>1</b> .17 <b>1</b>	AND SAME		K. Martin S. S. S. S.	

	tanda Vernera	<b>51.</b> 62		· <b>建筑</b>
,	e e was gr		4.4.4	0.4
	1.11	WELL	LOG	A Maria Maria Maria Maria Ma
	. 23 <b>4</b>			REMARKS: FRESH & SALT
FORMATION		TOP FEET BO	TTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	•	0	10	Wet @30'
sand, shale,	RR	10	562	wer @30
Little Lime		562	572	1 /2 11 170+04 (000)
sand, shale		572	589	1/2" Water @80'
Big Lime		589	7 <b>56</b>	
sand, shale		756	762	
Keener		762		
sand, shale			802	
Big Injun		802	806	No.
sand, shale		806	904	* ************************************
Weir		904	922	
		922	1106	
sand, shale		1106	1148	
Gantz		1148	1185	
sand, shale		1185	1226	
50 ft		1226	1295	en de la companya de La companya de la co
sand, shale		1295	1302	
30_ft		1302	1346	
sand, shale		1346	1685	
4th		1685	1877	
sand, shale		1877	1975	
5th		1975	2045	
sand, shale		2045``	2077	
Bayard		2077	2138	
sand, shale		2138	2220	
Warren		2220	2286	
sand, shale		2286	2530	
Speechley		2530	2588	
sand, shale		2588		
Tiona			2600	
sand, shale		2600	2638	
Balltown		2638	2660	
sand, shale	-	2660	2875	
Sheffield		2875	2896	
sand, shale		2896	2949	t -
Lower Sheffie	-1 <i>a</i>	2949	3202	· · · · ·
	s T a	3202	3260	
sand, shale		3260	3340	Drillers TD
			3365	Logger TD

*	•		Environm	Division of				€ ∴ ages
FORM	- WW-2B		Alic	Division of lental Protection		077	-300	Pageof
				<sup>2</sup> 2 1996ST	ATE OF WEST	L' VIRGINIA		
	DIV	ISION	op en	environme <sup>nitti</sup> n <b>e</b> vell v	NTAL PROTE NORK PERMIT	CTION, OFFI APPLICATION	CE OF OIL	AND GAS
1)	Well O	nerst		Oil & Gas	TROLEUM DEVE	687	DATION -	-3 m (1) 3/4
2)	0	or's	Well	Number	C C	Homming #1	MATION 3)	264
/	operac	OI 3	, .	ummer:	G.	nerring #1	3)	Elevation: 2155'
22453	well t	ype:	(a) (b)	O11/ If Gas:	T T OCIUC CIO	p /	round Sto Sha	Elevation: 2155' 09/09/96 0 09/09/98 rage
	Propos	ed Ta	rget	Formatio	n(s):	473	7	
	Propos	ed To	tal D	epth:	,550°	feet		
	Approx	imate	fres	h water	strata dep	ths: 95'; 2	00'; 385';	430'
8)	Approx	imate	salt	: water d	epths:	None Reported		
9)	Approx	imate	coal	. seam de	pths:	None Reported		
10)	Does la	and c	ontai	n coal s	eams tribu	tary to act	ive mine?	Yes/ No_XX_/
11)					.11 & Stimula			
12)								
,				CACT	NC AND MID	THE PROPERTY	•	
			S			ING PROGRAM		
TYPE		<del></del>	s		TIONS	FOOTAGE I	ntervals	
				PECIFICA	TIONS Weight	FOOTAGE I	NTERVALS	P. 11
	ctor	1		PECIFICA Grade	TIONS Weight	FOOTAGE I	NTERVALS	P. 11
Condu	ctor Water	1	<u>Size</u>	Grade	Weight per ft.	FOOTAGE I	NTERVALS	P. 11
Condu			<u>Size</u>	Grade	Weight per ft.	FOOTAGE I	NTERVALS	P. 11
Condu Fresh			<u>Size</u>	Grade H-40	Weight per ft.	FOOTAGE I	NTERVALS	P. 11
Condu Fresh Coal	Water		<b>Size</b> 1-/34"	Grade H-40	Weight per ft.	For drilling	NTERVALS  Left in well	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2
Condu Fresh Coal	Water		Size 1-/34" 8-5/8"	Grade H-40	Weight per ft.  42#  20/23#	FOOTAGE I For drilling 30'	Left in well	Fill-up (cu. ft.)
Condu Fresh Coal Inter Produ	water mediate		Size 1-/34" 8-5/8"	Grade H-40	Weight per ft.  42#  20/23#	FOOTAGE I For drilling 30'	Left in well	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2  450 sks
Condu Fresh Coal Inter Produ Tubin	water mediate		Size 1-/34" 8-5/8"	Grade H-40	Weight per ft.  42#  20/23#	FOOTAGE I For drilling 30'	Left in well	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2  450 sks
Condu Fresh Coal Inter Produ Tubin	Water  modiate ction g s RS : Ki	and .zes_	Size 1-/34" 8-5/8" 4-1/2"	Grade H-40	Weight per ft.  42#  20/23#	FOOTAGE I For drilling 30'	Left in well	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2  450 sks
Condu Fresh Coal Inter Produ Tubin Liner	Water  modiate ction g s RS : Ki	and_zes_epths	Size 1-/34" 8-5/8" 4-1/2"	Grade H-40 J-55	Weight per ft.  42#  20/23#  10/5#	For drilling 30' 625' 5550'	Left in well  625' 5550'	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2  450 sks
Condu Fresh Coal Inter Produ Tubin Liner	water mediate ction g s RS: Ki De	and zes_epths	Size 1-/34" 8-5/8" 4-1/2"	Grade H-40 J-55 Cor Offic	Weight per ft.  42#  20/23#  10/5#	For drilling 30' 625' 5550'	Left in well  625' 5550'	Fill-up (cu. ft.)  38CSR18-11.3  38CSR18-11.2.2  450 sks  38CSR18-11.1
Condu Fresh Coal Inter Produ Tubin Liner	water  mediate ction g s RS: Ki Si De	.ndzes_epths	Size 1-/34" 8-5/8" 4-1/2"	Grade H-40 J-55  Or Offic	Weight per ft.  42#  20/23#  10/5#	FOOTAGE I  For drilling  30'  625'  5550'	Left in well  625' 5550'	Fill-up (cu. ft.)   38CSR18-11.3  38CSR18-11.2.2  450 sks

Page 1 of Form WW2-A (6/94) File Copy  AUG 2 2 1996 2)  Page 1 of AUG 2 2 1996 3  Page 1 of C. Rerring #1  Page 1 of AUG 2 2 1996 3  Page 1 of C. Rerring #1  APT Well No: 47 - 077 - 0300  State County Perms  STATE OF EMET VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OF ENVIRONMENTAL P			TECEIVE W Division	D					•
Form WW2-A (6/94) File Copy  Permitting 3) Permitting 40 Permitting 3) Permitting 40 P	Page	1 of	Environmental Protect	ion 1)					<u> </u>
Permitting 3) API Well No: 47 - 077 - 0300 Office of Old AGas  STATE OF WEST VIRIGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OLL AND GAS  NOTICE AND APPLICATION FOR A WELL WORK PERMIT  4) Surface Owner(s) to be served: (a) Name Glen and Rosena Herring Address Rofes Address Address Address Name Name Address Name Address Name Address Name Address Name Address Name Name Name Address Name Name Name Address Name Name Name Name Name Name Name Name	Form	WW'2 - A	AUG 2 2 199	S <sup>2)</sup>	•	G. He	rring #1		
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT 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 Clen and Rozena Herring Address RD %4,  Bruceton Mills, W 26525  (b) Name Address Telephone (304) - 636-8798  TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:  Included is the lease or leases or other continuing contract or Extract oil and gas OR XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22 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)  Y Certified Mail (Postmarked postal receipt attached)  Publication (Notice of Publication attached)  I have read and understand Chapter 22-6 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 PERGLEMING PERGLEMING CORPORATION PERGLEM	` '	•	Permitting	3)	API We	ell No	47 -		
STATE OF WEST VIRGINIA - BUREAU 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 Clen and Rozena Herring Address RD 4.  Bruceton Mills, W 26525  (b) Name Address			Office of Oil & Ga				State	County	Permit
4) Surface Owner(s) to be served:  (a) Name		•	STATE OF WEST VIRG DIVISION OF E OFFICE	INIA - NVIRON E OF O	MENTAL IL AND (	PROTE( SAS	CTION		
(a) Name Address  Address (b) Name Address  (c) Name Address  (d) Address  (c) Name Address  (d) Address  (e) Inspector Fhillip Tracy Address  (f) Coal Lessee with Declaration Name Address  (g) Coal Lessee with Declaration Name Address  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 QR  XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through  Personal Service (Affidavit attached)  Certified Mail (Postmarked postal receipt attached)  Certified Mail (Postmarked postal receipt attached)  Location (Notice of Publication attached)  I have read and understand Chapter 22-6 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 an 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 PETROLEMP STATEMENT CORPORATION  By: Eric R. Steams  Integrated West Corporation Steams Steams  Integrated West Corporation Steams Steams  The Corporation Steams Steams Steams  The Corporation Steams St			NOTICE AND APPLICA	TION	FOR A WI	ELL WC	ORK PERMI	<u>T</u>	
(c) Name Address    Name Address   Name Address	4)	(a) Name Address	Glen and Rozena Herri RD #4, Bruceton Mills, WV	26525	Name Addres  (b) Co	ss	vner(s) w	vith Dec	
Address    Address   Rt. 2, Box 37-A   Name   Name   Address   Name   Address   Rt. 2, Box 37-A   Name   Address   Montrose, W   26283   Telephone (304) - 636-8798   Address   Address   Address   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   XX Included is the information required by Chapter 22, Article 6, Section   8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22 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)   Yerified Mail (Postmarked postal receipt attached)   Publication (Notice of Publication attached)   I have read and understand Chapter 22-6 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 amfamiliar 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.    Notart Public   Str. R. Stearns   Str. R.		(c) Name							
Address  Rt. 2, Box 37-A  Montrose, WV 26283  Telephone (304) - 636-8798  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  XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22 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 22-6 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 amfamiliar 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 PRINCIPLE SEAL NOTAR PUBLIC STATE OF WEST VIRGINA JANET S. GABBERT IT. SOX TH. API-6F BRIGGEPOTT, W. 26330  Bridgeport, W. 26330  Telephone 304-842-6256  Subscribed and sworn before me this 1971 day of frequent 1972 day		Address _			_				
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22 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)  Y Certified Mail (Postmarked postal receipt attached)  Publication (Notice of Publication attached)  I have read and understand Chapter 22-6 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 PETROLEUM TORPORATION  By: Eric R. Stearns  Its: VP. Exploration & Development  Address P. O. Box 26  Bridgeport, WV 26330  Telephone 304-842-6256  Subscribed and sworn before me this 1974 day of August , 1976	6)	Address _	Rt. 2, Box 37-A Montrose, WV 26283		Name	-			
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22 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)  Y Certified Mail (Postmarked postal receipt attached)  Publication (Notice of Publication attached)  I have read and understand Chapter 22-6 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 PETROLEUM SAVIANTION By: Eric R. Stearns  Its: VP. Exploration & Development  Address P. O Box 26  Bridgeport, W 26330  Telephone 304-842-6256  Subscribed and sworn before me this 1971-003		rerephone	(304) = 630-6798						
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.  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA JANET S. GABBERT RT. 2.BOX 714. APT. 6-F Bridgeport, WY 26330  My Cammission Expires July 7. 2003  Telephone 304-842-6256  Subscribed and sworn before me this 1972 day of August 1996.	8(d) I ha	racts by wincluded of the Co I certify ve served mpanying degree Pers	hich I hold the ri is the information de of West Virgini that as required copies of this no ocuments pages 1 t onal Service (Affi ified Mail (Postma	ght to requia (see under tice a hrough davit rked p	extractive extractive page 2 Chapter and applaction on attacher postal r	t oil Chapte ) : 22 c icati the d d) eceip	and gas er 22, An of the <u>We</u> on, a lo above nam	OR rticle ( est Viro ocation med part	6, Section ginia Code plat, and
Subscribed and sworn before me this 1971 day of August, 1996	fami atta resp is t	he terms a I certify liar with chments, a onsible forue, accur I am awai rmation, i  OFFICH NOTARY STATE OF WE JANET S. ( RT.2. BOX 7* BANIGEPORT	under penalty of the information so and that based on the control of the information so and that based on the control of the information so and that based on the control of the control o	ny per law to submit my incommon signitation of the submit	rmit iss hat I hat ted on quiry of ation, I ficant p y of fir rPETRO Stearns ploration Box 26 geport, W	this those believed the and LEUM SE & Deve	nder this ersonally applicate individual ind	s applicy examination for duals in the insulation submits nament.	cation. ned and am rm and all mmediately nformation ting false
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	i	Telepho				A	,	199/
	Subs	criped and	sworn before me	ll.	7 - day	01	TUG UST	No+	