



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

DEPT. OF ENERGY Well Operator's Report of Well Work

STINESPRING, CHARTER Operator Well No.: STINESPRING 2 Farm name:

LOCATION: Elevation: 1104.00 Quadrangle: OXFORD

> WESTUNION District: County: DODDRIDGE Latitude: 2540 Feet South of 39 Deg. 15Min. 0 Sec. Longitude 7990 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C 501 56TH ST.

CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD

04/14/89 Permit Issued:

Well work Commenced: 06/05/89 Well work Completed: 06/11/89

Verbal Plugging

Permission granted on:
Rotary X Cable Ri
Total Depth (feet) 5470' Fresh water depths (ft) 360', 1435'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N Coal Depths (ft): 340'-3444'

Casing & Tubing	Used in Drilling		Cement Fill Up Cu. Ft.
Size			
8-5/8''	1230.65'	1230.65'	C.T.C.
4-1/2"	5272.20'	5272.20'	600
1-1/2**		5171.50'	
ution make these time facts being make make the			

OPEN FLOW DATA

Speechley, Warren (Commingled)

		_	
Producing formation Alexander,	Riley, Balltown,	Pay zone depth (ft)52	205.5'-3251'
Gas: Initial open flow 750			
Final open flow 696	MCF/d	Final open flow N/A	Bbl/d
		nd final tests 12	Hours
Static rock Pressure 1250	psig (surfa	ce pressure) after 24	Hours
Second producing formation		Pay zone depth (ft)	
Gas: Initial open flow	MCF/d Oil:	Initial open flow	Bb1/d
Final open flow	MCF/d	Final open flow	Bhl /d

Final open flow MCF/d Final open flow Time of open flow between initial and final tests Hours Static rock Pressure _____psig (surface pressure) after

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: EASTERN AMERICAN ENERGY CORP.

By: Rich Heffelfinger, Vice President - Regional Operations Date: September 13, 1989

FORM WR -35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4-STAGE FOAM FRAC

STAGE 1: Alexander: 13 holes (5205.5'-5165') Breakdown 3100 psi, 60 quality foam, 50,000 lbs. 20/40 sand, 500 gals 15% HC1, 551,400 sef of N₂

STAGE 2: -Riley: 10 holes (4470'-4438') Breakdown 2110 psi, 75 quality foam, 24,000 lbs. 20/40 sand, 500 gals 15% HCl, 586,400 scf of N_2

STAGE 3: Balltown: 10 holes (3841'-3772') Breakdown 2660 psi, 75 quality foam, 25,000 lbs. 20/40 sand, 500 gals 15% HCl, .585,900 scf of N₂

STAGE 4: Speechley/Warren: 13 holes (3414'-3251') Breakdown 1300 psi, 75 quality foam, 22,300 lbs. 20/40 sand, 650 gals 28% HCl, 523,300 sef of N $_2$

WELL LOG

· · · · · · · · · · · · · · · · · · ·	8.87		
	•		REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
	0	15	1" Stream of water @ 360'
Soil	15	140	
Sand and Sandy Shale	140	218	1" stream of water @ 1435'
Sandy Shale and Red Rock	218	340	•·-
Sand	340	344	•
Coal	344	1840	
Sand and Sandy Shale	1840	1870	GAS CHECKS:
Limestone	1870	1896	1904' - 18/20 thru 1" w/water
Sand and Shale	1896	1957	3195' - No show
Big Lime	1957	2030	3195' - No snow 3347' - 10/10 thru 1" w/water
Sand and Shale	2030	2186	4149' - 20/10-50/10 thru 1" w/water
Shale	2186	2307	4450' - 40/10 thru 1" w/water
Sand and Siltstone	2307	3244	4946' - 20/10-50/10 thru 1" w/water
Shale with Trace of Sand,	3244	3316	5316' - 20/10-40/10 thru 1'' w/water
Warren	3316	3409	5316 - 20/10-40/10 dild 1 w/ water
Shale and Siltstone	3409	3425	
Speechley	3425	3807	
Shale and Siltstone	3807	3848	
Balltown	3848	4409	
Shale and Siltstone	4409	4476 -	
Riley	4476	4887	
Shale and Siltstone	4887	4906	
Benson Shale with Trace of Sand	4906	5118	
	5118	5211	
Alexander	5211	5470 T.D.	
Shale	3		
•	-		
			ce scale
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		•	
			017 3711
			017
	•		4

FORM WW-2B

1)

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

9 %	22.22			259			*
1.).	well Ob	erator:	<u>Eastern</u>	American En	ergy Corporat	ion	
2)	Operato	r's Well	Number:	STINESPRING	#2 - WVDODOO	0802 3) E1	evation: 1,10
4)	Well ty	pe: (a)	011_/	or Gas	XX		
		(b)	If Gas:	Production Deep	NXX/ Underg	round Storag Shallo	e/ w_ <u>XX</u> /
5)	Propose	d Target	Formation	(s): Alex	cander		
5)	Propose	d Total D	epth:	5,300	feet		
7)							
8)	Approxi	mate salt	water de	pths:	None		
9)	Approxi	mate coal	seam dep	ths:	517		
10)	Does la	nd contai	n coal se	ams tribut	ary to act	ive mine? Y	es/ No_XX
11)					ete new well.		
12)							
			CASIN	G AND TUBI	NG PROGRAM		
TYPE		S	PECIFICAT	IONS	FOOTAGE I	TERVALS	CEMEN'
o de como de la como de como de	desili santine (Santa Santa Sant	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.
Condu	ctor	11 "	<u>F-25</u>	37,5		*********	
Fresh	<u>Water</u>	8 5/8"	J-55	20.0	1,204	1,204	38CSR18-11.3
Coal							38CSR18-11.2
Inter	mediate						
Produ	ction	4 1/2"	J-55	10.5	5,220	5,220	38CSR18-11.1
<u>rubin</u>	ıg	1 1/2"	H-40	2.75			
<u> Liner</u>	:5			The state of the s			
PACKE	ERS : KI	nd		7-04-5-1			
	S1 De	zes pths set .					
	7-40nc - 11 - 1 ₁₁ - 215-435 ₀ - 11-43	F	or Diviso	n of Oil a	nd Gas Use	Only	
	Fee(s)	paid: _	_ _I Well W	ork Permit	Rec	lamation Fun	d I_I WPC
(Type)							

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DIVISION OF OIL & GAS 3) REPARTMENT OF ENERGY

Date) ; ; <u></u>	Apr	il 7,	1989			
Oper	ator	's we	ll n	umber			
STIN	ESPRIN	G #2 ·	- WVD	OD000802			
API	Well	No:	47	- 017	_	3711	
		Sta	te -	County	, <u> </u>	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	*
	(a) Name Charter	Stinespring	Name None	
	Address Box 264		Address	
	. West Uni	on, WV 26456		
	(b) Name		(b) Coal Owner(s) with	th Declaration
	Address		Name	
	***************************************		Address	
	(c) Name			
	Address		Name	
		A. H	Address	
6)	Inspector Mike II	nderwood	(c) Coal Lessee with	Declaration
٠,		2, Box 135		
		WV 26426	NameAddress	
	Telephone (304)-	792-1043	ACCI COO	
	rerebuoue (204)-	782-1043		
	mo mun	DEDCOM/C) MAMED AT	ONTE MAKE MOREOUS MEANS	
	IO THE	PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:	
	T	3		
			r other continuing cont	
			extract oil and gas Ol	
_XX	Included is the	information requir	red by Chapter 22B, Art	ticle 1,
Secti	on 8(d) of the C	ode of West Virgin	nia (see page 2)	
	I certify that a	s required under (Chapter 22B of the West	<u>t Virginia Code</u>
I hav	re served copies	of this notice and	dapplication, a locat	ion plat, and
accon	mpanying document	s pages 1 through	8 on the above named	d parties, by:
	Personal Se	rvice (Affidavit a	attached)	· •
•	XX Certified M	ail (Postmarked po	ostal receipt attached) Surface Owner &
	Publication	. (Notice of Public	cation attached)	Inspector Hand-
	-			Delivered
	I have read and	understand Chapter	r 22B and 38 CSR 11-18,	. and I agree
to th	e terms and cond	itions of any perm	mit issued under this a	ennlication.
	I certify under	penalty of law tha	at I have personally ex	vamined and am
famil	iar with the inf	ormation submitted	on this application	Form and all
attac	hments and that	hased on my inqui	iry of those individual	le immediatel
resno	neible for obtai	ning the informati	ion, I believe that the	is intermediately
ie tr	ue, accurate, an	d complete	ion, I believe that the	e Intormacion
10 (1	T om outre that	there are cirrific		
infor	i am aware that	there are signific	cant penalties for sub	mitting raise
THEOL	macron, includin		of fine and imprisonme	
		/ Metr Oberator	Eastern American Emergy	dorporation
			Paletti John VIII. 7	axiw
•		Its: <u>Designa</u>		
		Address P.O. Bo		
			le. WV 26351	
	., .	Telephone (304) 462-5781	
Subsc	ribed and sworn	before me this 29	theday of Tharch	, 19 <u><i>8</i>9</u>
		Jacarna	Towe	Notary Public
My co	mmission expires	1 July 2, 19	196	