

WR-35,

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

Well Operator's Report of Well Work

Farm name: JEFFERS, KEITH ET AL

Operator Well No.: P-95

LOCATION: Elevation: 715.59 Quadrangle: MILTON

District: GRANT

County: CABELL

Latitude: 9200 Feet South of 38 Deg. 25Min. 0 Sec. Longitude 4500 Feet West of 82 Deg. 10 Min. 0 Sec.

Company: SOUTHEASTERN GAS CO.

P. O. BOX 2347

CHARLESTON, WV 25328-2347

Agent: FRED A. RADFORD

Inspector: RICHARD CAMPBELL

Permit Issued: 12/12/90 Well work Commenced:

1-26-91 Well work Completed: 2-19-91

Verbal Plugging

Permission granted on:

Cable Rig Rotary X Cable Rig
Total Depth (feet) 2,480 ft. Fresh water depths (ft) 93 ft.

Salt water depths (ft) \_\_\_1,315 ft.

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

Casing	Used in		Cement Fill Up	
Tubing	Drilling		Cu. Ft.	
Size				
		PROGRAM	Parity and the second s	
8 5/8"	   772 ft.	772 64	005	
		' //2 ft.	205 sks.	
4 1/2"	2426 ft.	2426 ft.	205 sks.	

OPEN FLOW DATA

Producing formation B	erea Sandstone	Pay zone depth	(ft) 2378'-2388'
Gas: Initial open flow_	Show MCF/d Oil:	nitial open flow	Show Bbl/d
Final open flow	Show MCF/d I	Final open flow	20 Bbl/d
Time of open flow	between initial ar	nd final tests	48 Hours
Static rock Pressure	<u>510                                    </u>	ce pressure) after	24 Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Pay zone depth (ft)\_\_\_ Bbl/d Hours 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 AND FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: SOUTHEASTERN GAS

By: Fred A. Radford-General Manager

Date: February 26, 1991

BEREA PERFORATIONS: 2375'-2384' (12 holes)

Ballout Berea with Acid/N2

## 75 QUALITY FOAM FRAC 37,500 lbs. 20/40 Sand

457,000 scf-N<sub>2</sub>

Breakdown: 2395 lbs.

Injection Rate: 4.5 bbls./min.

Avg. Pressure: 1987 lbs. Total Fluid: 249 bbls.

ISIP: 2076 lbs.

5 min. SIP: 1956 lbs. 15 min. SIP: 1847 lbs.

		DRILLER'S RECORD	
FORMATIONS	TOP	BOTTOM	REMARKS
Topsoil	0	15	
Sand & Shale	15	687	Fresh Water @ 93'
Sand	687	846	rresii water e 93
Shale & Sand	846	1266	
Salt Sand	1266	1447	Salt Water @ 1315
Shale	1447	1473	
Sand	1473	1492	
Shale	1492	1553	
Little Lime	1553	1571	
Pencil Cave Shale	1571	1582	
Big Lime	1582	1777	
Shaley Lime	1777	1840	
Injun Sand	1840	1914	
Weir Shale	1914	2330	
Sunbury (Coffee) Shale	2330	2374	
Berea Sandstone	2374	2388	Show of Oil & Gas
Devonian Shale	2388	2460	@ 23821
		2460 Driller's TD	
		2480 Logger's TD	

259//

O//- OB49 Issued, 12/12/90 Exprespiz/12/92 Of

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

					APPLICATIO	<u>N</u>	•
1)	Well Ope	erator:	82 Southe	astern Gas (	Company 46	400 (3)	476
2)	Operato	r's Well	Number:_	P-95	- the deliminations consequences are suppressed as a second	3) Ele	evation: <u>715.5</u> 9
4)	Well ty	pe: (a)	Oil X/	or Gas	5/		
÷		(b <sub>1</sub> )	If Gas:	Production Deep	P/ /	round Storage Shallov	=/ ~/
5)	Proposed	d Target	Formation	n(s): <u>Bere</u> a	್ರ <b>ಿ</b> Sandstone		
6)	Proposed	d Total D	epth:2	650	feet	RECEI	VED
7)	Approxi	mate fres	h water s	strata depi	hs: 180'	· DEC UA	1990
8)	Approxi	mate salt	water de	epths:	1570'	DEPT. OF E	- 00
9)	Approxi	mate coal	seam dep	oths:	N/A		
10)	Does lar	nd contai	n coal se	ams tribut	ary to act	iye mine? Ye	es/ No_x_/
11)	Proposed	d Well Wo	rk: Drill	and Complet	e Moull	oll -	
12)					10 200 00 5		
			CASIN	IG AND TUB	NG PROGRAM		
TYPE		s i	PECIFICAT	CIONS	FOOTAGE I	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ıctor					-/0	3965R1411. 3
Frest	n Water	8 5/8"	K	24	780'	G5-780'	220
Coal							38CSR18 1/2.2
	mediate						
Produ	action	41211	K	10.5	2650'	2650'	250
Tubir	ıg						3858R18-11/
<u>Liner</u>	:5						
PACKE	ERS : Kir	nd					
		es oths set					
1290		E	en Diviso	n of Oil a	nd Gars/Øse	Only	
36	ηFee(s) p	ara: G	_A	ork Permit		lamation Fund	WPCP
Z	Plat	WW-9	WW-	( \$1)	ond Tank	set mis	Agent
		***************************************	7 ' "			(Francisco)	Agenc

Page	1 of RECEIVED 1)	Date: December 4, 1990		
		Operator's well number		
	87) DEG θ4 <del>19</del> 90	P-95		
File	Copy 3)	API Well No: 47 - 011 - 0848		
	DEPT. OF ENERGY	State - County - Permit		
		<del>-</del>		
	DEPARTMENT OF ENERGY, DI			
	NOTICE AND APPLICATION F	OR A WELL WORK PERMIT		
4)	Surface Owner(s) to be served:	5) (a) Coal Operator:		
	(a) Name <u>Keith R. Jeffers, Etal</u>	Name None		
	Address Route 1, Box 178A	Address		
	Barboursville, WV 25504 (b) Name Emmit E. Jeffers			
	Address Box 575	(b) Coal Owner(s) with Declaration		
	Ceredo, WV 25507	Name Keith R. Jeffers, Etal		
	(c) Name	Address Route 1, Box 178A		
	Address	Barboursville, WV 25504 Name Emmit F. Jeffers		
		Address Box 575		
		Ceredo, WV 25507		
6)	Inspector <u>Richard S. Campbell</u>	(c) Coal Lessee with Declaration		
	Address Route 1 Box 21-B	Name None		
	Duck, W.V. 25063	Address		
	Telephone (304)- <u>364-8065</u>			
	TO THE PERSON(S) NAMED AB Included is the lease or leases or			
cont	racts by which I hold the right to	extract oil and dae OP		
X	Included is the information requir	ed by Chapter 228 Article 1		
Sect	ion 8(d) of the Code of West Virgin	ia (see page 2)		
	I certify that as required under C	hapter 22B of the West Virginia Code		
I ha	e served copies of this notice and	application, a location plat, and		
acco	<pre>npanying documents pages 1 through Personal Service (Affidavit a</pre>	on the above named parties, by:		
	Certified Mail (Postmarked po			
	Publication (Notice of Public	ation attached)		
	***			
to th	ne terms and conditions of any perm	22B and 38 CSR 11-18, and I agree it issued under this application.		
	I certify under penalty of law tha	t I have personally examined and am		
fami	liar with the information submitted	on this application form and all		
attad	chments, and that based on my inqui	ry of those individuals immediately		
responsible for obtaining the information, I believe that the information				
is ti	ue, accurate, and complete.			
	am aware that there are signific	ant penalties for submitting false		
TILLUI	mation, including the possibility	of fine and imprisonment.		
	By:	Southeastern Gas Company		
	Its:	Vice President		
	Address	P.O. Box 2347		
	as a real test and te	Charleston, W.V. 25328		
	Telephone	(304) 343-9566		
Subso	ribed and sworn before me this 4th	day ofDecember, 1990		
	Donde al 7 4/11	A 1 /		
	Sunder 1. UNU	Notary Public		
MVCC	ommission expires — May 24,	1993		