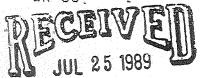


206 nomit Creek · 1111 2 2 1988 FIIIL

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

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

Operator Well No.: F-93

Elevation: 885.84 LOCATION:

KEENAN, EURA D.

Quadrangle: MILTON

District County: CARELL GRANT

Latitude: 11000 Feet South of 38 Des. 25Min. O Sec. Longitude 6275 Feet West of 82 Des. 10 Min. O Sec.l.atitude:

Company: SOUTHEASTERN GAS CO. P. O. BOX 2347 CHARLESTON, WV

Asent: FRED A. RADFORD

Inspector: JERRY TEPHABOCK Permit Issued: 07/19/88 04-06-89 Well work Commenced: Well work Completed: 04-30-89 Verbal Plussins Permission granted on:_____ Rotary X.... Cable ____ Ris Total Depth (feet) _2650_____ Fresh water depths (ft) _____. Salt water depths (ft) _______

Is coal being mined in area (Y/N)? N

Coal Depths (ft):_____

8	Used in 	l.eft	Cement Fill Us
Tubins 	Orillins 		Cu. Ft.
8-5/8"	927	927	336
4-1/2"	2608	2608	224
2-3/8"	2590	2590	
1	DECE	wen	, ! !
	JUL 17	בסכו	

OPEN FLOW DATA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Producins formation Berea ___Pay zone deeth (ft). 2547 _. static rock Pressure $\underline{-600}$ psis (surface pressure) after $\underline{-72}$. Hours Gas: Initial open flow_____Bhl/d Final open flow.___.MCF/d Final open flow _____ Rbl/d Time of open flow between initial and final tests_____ Hours Static rock Pressure_____Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, FTC. 2). THE WELL OF ALL FORMATIONS, LOG WHICH IS A SYSTEMATIC DETAILED GFOLOGICAL RECORD INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

> PRESIDENT For: SOUTHEASTERN GAS CQ.

> > DWASTORCOF OH & GAS July 14, 1989 DEPARTMENT OF ENERGY

JUL 28 1989

Perforated Berea From 2547' to 2557' - 11 holes. Formation breakdown at 1900 psig Fracture s/ 75Q foam at 21 BPM. Average Pressure - 2656 psig ISIP - 1990 psig Total Sand - 32,000# Total N_2 - 492,000 C.F. Total Fluid - 245 Bbls.



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Formation	Top	Bottom	Remarks
Topsoil	0 1	5 '	
Sand & Shale	5 '	• 125'	
Sand	125'	200	
Shale	200'	398'	
Sand	398'	455	
Shale	455'	510'	
Sand	510'	580'	
Shale	580'	617'	
Sand	617'	871'	
Shale	871'	9251	
Sand & Shale	925	1416'	Salt Water @ 905'
Salt Sand	1416	1620'	
Shale	. 1620'	1630'	
Maxton Sand	<i>1</i> ,1630'	1731'	
Little Lime	1731'	1752'	
Pencil Cave Shale	1752	1763'	
	1763'	1958'	en e
Shaley Lime	1958'	2011'	
Injum Sand	2011'	2093'	Salt Water @ 2025'
Weir Shale	20931	2501'	04104001 0 2020
Coffee (Sunbury) Shale		2547'	
Berea Sand	2547	2558'	Show of Oil & Gas @ 2552
Devonian Shale	2558'	2650'	

2650' D.T.D. 2652' L.T.D.

JUL 28 1989

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Page	1 of _
Form	WW2-A
(09/8	7)
File	Сору



1)

3)

Date: July 11, 1988

Operator's well number

P-93

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY API Well No: 4

47 - 011 - 0830

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: (a) NameEura D. Keenan	5) (a) Coal Operator: Name (Coal not operated)
	Address 988 Fudges Creek Rd. Barboursville, WV 25504	Address
	(b) Name	(b) Coal Owner(s) with Declaration Name Eura D. Keenan
	Address	Address 988 Fudges Creek Rd. Barboursville, WV 25504
	(c) Name	
	Address	Name
		Address
6)	Inspector Jerry Tephabock Address Rt. 1, Box 101-A	(c) Coal Lessee with Declaration Name(Coal not Leased)
	RIHEV. WV CJC/I	Address
	Telephone (304) - 372-6805	
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
cont	racte by which I hold the right to	extract oil and das <u>uk</u>
Y	Included is the information requir	ed by Chapter 22B, Alticle 1,
Sect	ion 8(d) of the Code of West Virgin	ila (see page 2)
	I cortify that as required under C	chapter 22B of the west virginia code
I ha	ve served copies of this notice and	application, a location plat, and
acco	mpanying documents pages 1 through	on the above named parties, by.
	v Doreonal Service (Affidavit a	ttached)
	Certified Mail (Postmarked po	ostal receipt attached;
	Publication (Notice of Public	ation attached)
	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
to t	be torme and conditions of any Derm	nit issued under this application.
	I cortify under nenalty of law tha	it I have bersonarry examined and am
fami	liar with the information submitted	on this application form and all
atta	chments, and that based on my inqui	ry of those individuals immediately
resp	onsible for obtaining the informati	ion, I believe that the information
is t	rue, accurate, and complete.	
	I am aware that there are signific	cant penalties for submitting false
info	rmation, including the possibility	of fine and imprisonment.
	Well Operator	Southeastern Gas Company
	By: <u>Fred A. R</u>	Vice President
	Its:	Box 2347
		leston, WV 25328
		04-343-9566
Subs		th day of, 19_88
	A dialy	My Notary Public
<u>5a</u>	ommission expires May 24, 199	

FORM WW-2B

	STA	ATE (OF	WEST	VIRGI	NIA			
DEPARTMENT	OF	ENE			VISIÓN	OF	OIL	AND	GAS
WEI	I. V	JORK		RMIT	APPLI	CAT	ON		

441.			WELL WO	RK PERMIT	APPLICATION	1/20 0 1	141	
1)	Well Ope	rator:	Southe	astern Gas (Company Ho	40, 2,5	6/Q	
2)	Operator	's Well	Number:		P-93	, 3) Ele	vation: 885.84	
4:)	Well typ	e: (a)	oil <u>X</u> /	or Gas	5 <u>X</u> /	S. Well to		
		(b)	If Gas:			ound Storage		
an .				Deep	*> %		- Andrewson Company	
5)	Proposed	Target	Formation	(s):	Berea San	dstone		
6)					feet		. <i>I</i>	
7.)	Approxim	ate fres	h water s	trata dept	hs: <u>3</u>	<u>19', 886', 93</u>	5	
8)	Approxim	ate salt	water de	pths:	and the second s	1436'		
9)	Approxim	ate coal	seam dep	ths:		<u>5</u> 629'	<u>:</u>	
10)	Does lan	d contai	n coal se	ams tribut	ary to acti	ve mine? Ye	s/ No_X/	
11)	Proposed	Well Wo	rk:	Drill New W	ell			
12)				·				
	, e e egge		CASIN	G AND TUBI	ING PROGRAM			
TYPE		<u> </u>	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT	
A CONTRACTOR STOCKED S		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Cond	uctor							
Fres	h Water						38CSR18-11-3	
Coal		9-5/8"	J	32.3	9201	920'	Cement to Surface	
Inte	rmediate				-		Surface 3805R18-11-2.2	
Prod	uction	4-1/2"	J	10.5	2630'	2630	- 38CSR18-11-1 175	
Tubi	ng	2-3/8"	J	4.6	26301	2630'		
Line						10)15	CEIVE	
PACK	<u>ERS</u> : Kin	d					IUL 1 3 1988	
Sizes								
DEPARTMENT OF ENERGY FOR Divison of Oil and Sas Use Only								
	· Foo(a) =			ork Permit	(<i>LL</i>)	amation Fund	WPCP	
OZII.	Fee(s) p		_(//_		De la	et	000	
13/	Plat	₩w-9	WW-	ZB JGOI B	Bond Slank	Type)	Agent	