

RECEIVED

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

JUL &R 1990

Well Operator's Report of Well Work

. EFT. OF ENERGY Farm name:

ROLSTON, MICHAEL B.

Operator Well No.: HENDERSON #2

LOCATION:

Elevation: 604.00

Quadrangle: MARIETTA

District: WILLIAMS

County: WOOD

Latitude: 11450 Feet South of 39 Deg. 25Min. 0 Sec. Longitude 6290 Feet West of 81 Deg. 27 Min. 30 Sec.

Company: BLAUSER, DENNIS D., WELL

704 PIKE STREET, P.O. BOX 829 | Casino

MARIETTA, OH 45750-0000

Agent: STANLEY K. WILSON

Inspector: GLEN P. ROBINSON Permit Issued: 08/09/89 Well work Commenced: 10/31/89 Well work Completed: 11/09/89

Verbal Plugging

Permission granted on:

Rotary Cable Total Depth (feet) 2255'

Fresh water depths (ft) 20-120'

Salt water depths (ft) 1320'

Is coal being mined in area (Y/N)? N Coal Depths (ft): None

Casing   &   Tubing	Used in     Drilling	Left     in Well	Cement    Fill Up     Cu. Ft.
Size		   	
16"	20'	20:	Surface
   8 5/8'' 	278'	278'	     Burface
4 1/2"	2210'	   2210'	330   cú. ft.
·			
			·    

OPEN FLOW DATA

Producing formation	Gordon	Pay zone depth	(ft) 2162
Gas: Initial open flow		Initial open flow	$0 \frac{\text{Bbl/d}}{\text{B}}$
Final open flow	29 MCF/d	Final open flow 7	- Bbl/d
Time of open flow	between initial	and final tests	24 Hours
Static rock Pressure	psig (surf	ace pressure) after	$\frac{72}{}$ Hours

Second producing formation Pay zone depth (ft)\_ MCF/d Oil: Initial open flow\_\_\_ Gas: Initial open flow Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests\_ 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.

> M. The Aaron M. Huck Adm. VP For: BLAUSER, DENNIS D., WELL SERVICES, INC.

Prepared By: D. Tim Zoller, Petroleum Engineer-Date: July 24, 1990

12 @ 2162' - 2165' 12 @ 2170' - 2173' Using 2 1/8" strip jets .39 dia. Perforations:

Fracturing:

Well fractured with 75% quality Foam utilizing 7250 gal. gelled fluid & 235,000  $\rm SCFN_2$  30,000 20/40 Mesh Sand and 300 gal. 15% HCL

## Well Log

Soil Unconsolidated Sand Grey shale Sand grey shale red rock grey shale sand	0' 16' 50' 120' 151' 157' 170' 179'	- - - -	151' 157' 170'	
red rock & grey shale	183'		211'	•
sand	211' 217'		217' 380'	
grey shale red rock	380'		385'	
sand	385!	_	392'	
red rock	392'	_	392' 400'	
sand	400'	_	410'	
red rock	410'	-	415'	
grey shale	415'		470'	
red rock	470'	-	534'	
sand	534'	-	585'	
red rock	585'	-	705'	
sand	705'	-	915'	
grey shale	915'	-	925'	
sand	925'		1095'	
	1095'			
	1160' 1674'	-		
	1705'	-	1754'	
	1754'	_	1855'	
	1855'		1860'	
	1860'		1864'	
	1864'			
	2162'			
gordon sand	2178'	_	2186'	
	2186'			TD

\*No Coal Encountered

455

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DIVISION	OF OWE	FIGA	ORK	PER	MIT	APP	LIC	CAT	ON	

	1)	Well Ope	DEPAFTMEN rator:	T OF ENERGY Blaus	ser Well Serv	vice, Inc.	(Op. Code	6000) (0) 4		
	2)	Operator	's Well	Number:	Hendersor	<u>#2</u>	3) El	evation: 604'		
	4)	Well typ	e: (a)	0il_/	or Gas	<u>X</u> /				
			(b)	If Gas:			ound Storag Shallo			
	5)	Proposed	Target	Formation	n(s):	Berea 305				
	6)	Proposed	Total D	epth:	1930'	feet				
	7)	Approxim	ate fres	h water s	trata dept	hs:	260' /30'			
	8)						•	00' KK		
	9)					n/a				
	10)	Does land contain coal seams tributary to active mine? Yes/ No $_{\rm X}$ /								
	11)	Proposed Well Work: Drill and stimulate new well.								
	12)									
	CASING AND TUBING PROGRAM  TYPE ( , , , , , , , , , ) CEMENT									
	TYPE	1 39	<u>s</u>			FOOTAGE IN				
	#	1137 OK	Size		Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)		
,	j	e Pipe uc <del>tor</del>	13"		54 or 48	120'	120	380018-11.5		
	Fres	h Water_	8 5/8"	H-40	20	290' - <del>285</del> '	290' <del>\</del>	CTS		
	Coal									
	Inte	rmediate								
	Produ	uction	4 1/2"	J-55	10½	1930'	1930'	CSR 18.11.1		
<u> </u>	Tubi	ng								
	Line	rs								
	PACK	ERS : Kin								
			ths set							
_	003	<del></del>	F	or Diviso	on of Oil a	ind Gas Use	Only	$\mathcal{I}$		
23	30.	Fee(s) p	aid: آپو	Well W	Vork Permit	Rec:	lamation Fun	d WPCP		
		Mat G	Ww-9	Ww-	-2B D	Bond Stank		_ Agent		

Page 1 o	£ 7	1)	Date:	July 24, 198	9
Form WW2		2)	Operator'	s well number	
(09/87)		2.	107 (1 ) 1	Henderson #	
File Cop	Y	3)	API Well	No: 47 - 10 State - Coun	
				state - coun	cy - bermit.
	22222	STATE OF WEST			
	DEPARTMENT	OF ENERGY, DI	VISION OF	OIL AND GAS	
	NOTICE AND	APPLICATION F	OR A WELL	WORK PERMIT	
		•		·	
4) Sur	face Owner(s) to Name Michael B. Ro	be served: Noton - Power of	5) (a) Co	al Operator:	•
(a)	ress Henderson Ha	II Atty	Name	n/a	
Adu.	Williamstown,	WV 26187	Address _		
(b)	Name Sandra Hende		(b) Coal	Owner(s) with	Declaration
	ress 10429 South A		Name		
	Chicago, IL		Address	DIST	ENROPE-
	Name Dorothy Hend	erson		11/25	SUV SIN
Add	ress <u>12229 Gambel</u>		Name	44	
***************************************	Fountain Hills	, AZ 85268	Address _	AUG	<u>U 1 1989 ZUI - </u>
6) Ins	pector Glen P. Rob ress Route 1, #6 N Mineral Wells,	inson	(g) Con1	T OSSESSION TO	<del>Kalaration</del>
ο, ins	ress Route 1. #6 M	It. Pleasant Esta	teName	DESS OF PARTMEN	TOTAGAS
2144	Mineral Wells	WV 26150	Address	11/4	ENERGY
	ephone (304)- <u>489</u>				
		ON(S) NAMED AB	<b>ሰኒኒድ ጥ</b> ጆድድ እነ	רייורי יישאייי	
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Inc	luded is the leas	e or leases or	other con	tinuing contr	act or
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	8(d) of the Code				
	ertify that as re				
I have s	erved copies of t ying documents pa	nis notice and	applicati	on, a locatio	n plat, and
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	_ Certified Mail				lear
	_ Publication (No	tice of Public	ation atta	ched)	
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1	m aware that ther	-	ant penalt	ies for submi	tting false
	ion, including th	e possibility	of fine an	d imprisonmen	t.
		Well Operator			
		By:	Haros m	thuck	
		Its: Address	Secretary/	o reasurer	*
			Marietta, (	043 OH 45750	
		Telephone			<u> </u>
	ed and sworn befo	re me this 24t	h day of _		, 19 <u>89</u>
<b>&gt;</b>	7 Cak. 1. 5	fans 7111	, i-	-	Wakani B. 2.2.
My commi	<u>nauly 5. 2</u>	April 18. (1990	<u>v</u>		Notary Public
, Culluit	coperation	・・ピ・セノ・マノひにょうひ			