

no 10



## OCT 09 1987

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

## State of Mest Mirginia

DEPARTMENT OF ENERGY Gil und Cas Bivision

Date	May	15	198	37	•
Opera	ator's No.	5	less_	363-1	www.Principles
Farm	Rober	t Bo	ggs		
API 1	ю. <u>4</u> 7	·	087	- 404	0 -DD

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 765 Watershed	Rush Run				
District: Smithfield County Roans	9	Quadrangle	<u>Tarriff</u>	7.5	
		•	• • •		
	aarakan marka ka mar Marka ka marka ka ma		,		
OMPANY Boggs Natural Gas				Cemen	
DDRESS P.O. 148 Spencer WV 25276	Caşing	Used in	Left	fill	up
FSIGNATED AGENT Harry C. Boggs	Tubing	Drilling	in Well	Cu.	ft.
WDRESS P.O. 148 Spencer, WV 25276	Size		e-time at the state of the stat		
SURFACE OWNER Robert Boggs	20-16 Cord.				
ADDRESS Ravenswood WV	13-10"		and the second s		
MINERAL RIGHTS OWNER Harry C. Boggs	9 5/8				
ADDRESS P.O. 148 Spencer WV 25276	8 5/8				
OIL AND GAS INSPECTOR FOR THIS WORK Homer	7				
Daugherty ADDRESS LOoneyville	5 1/2				
PERMIT ISSUED March 18 1987	4 1/2				Marriage
DRILLING COMMENCEDMarch 18 1987	3				
DRILLING COMPLETED March 24 1987	2				
TE APPLICABLE: PLUGGING OF DRY HOLE ON	-				
CONFINUOUS PROGRESSION FROM DRILLING OR	Liners used			-	KD mar SPA at No. 7/2
REMORKING. VERBAL PERMISSION OBTAINED	usea			<u> </u>	
And the second s	-	Dep	th 5750'		feet
GEDINGICAL TARGET FORMATION Oriskany	Rotary x	/ Cabl			es.
Water strata depth: Fresh 50 feet;		being min	ed in the	area:	? n
Coal seam depths:	_ 15 (031	being has			
OPEN FIOW DATA					
Producing formation Devonian Shale	Pa	y zone dep	th 3500-	5406	_fee
Gas: Initial open flow 50 Mcf/d	Oil: In	itial open	flow	0 <u>F</u>	3bJ./c
Final open flow (T50) Mcf/d	Fi	nal open f	low	<u>0</u> I	3b1/d
Time of open flow between init	tial and f	inal tests	24 ho	ours	
Static rock pressure 750 psig(surface	ce measure	ment) afte	er 18 hou	ırs shu	ıt iı
(If applicable due to multiple completion	7)				
Second producing formation	Pa	y zone dep	oth		_fec
Gas: Initial open flow Mcf/d	Oil: In	itial oper	flow	]	2b1/
Final open flow Mcf/d	Oil: Fi	nal open f	low		Bbl/
Time of open flow between ini	tial and f	inal tests	5 h	ours	
static arek proservepsig(surfac		more a O	O APR		

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

st Stage-

5406-4436

22 shots

1500 gal HCl, 550,000 scf N<sub>2</sub>, 290 Bbl H<sub>2</sub>O,60,000 # sd.

## WELL LOG

	•		
PORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Big Lime (bottom of 7") Big Injun Shale Corniferous Lime	1600 1654 2125 5480	1654 1754 5476 5519 TD	
404 2113 813 3213 822 4215		nauto 5519 51275: 1742 naufg. 3777	DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
825 4415			

(Attach separate sheets as necessary)

Boggs Natural Gas Co.

Well Operator

By: Jeffery C. Boggs

Date: May 15 1987

Note: Regulation 2.02(i) provides as follows:

"The term 'og' or 'well log' shall mean a systematic detailed geological record of all formations, including and, executived in the drilling of a well."

FORM	WW-2	(B)	EILE,	CORY		i de
(Oby) 7/85	N) H		M			
7/85		9	H(A)	A	-	
		ADD.	20.48	496	7	
Ğ	18	APK'	118	igg?	To take	417



)	Date: 3-20-	1	9.	87		_
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2) Operator's Well No. <u>Harless</u> 363-1

3) API Well No. 47 087 4040-DD State County Permit

## STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

	DIEPRAK	IIIMEDIMII.	ON FIAS	וישות	A	PPLICA	ATION FO	JR A WEI	LL WORK PERI	MIT					
4)	WELL TY	PE: A (	Oil	/ 0	as X	X ,									
,		В (	If "Gas",	Production	m		/ Un	derground	storage		Deep XX	/ Sh	allow		Λ
5)	LOCATIO		evation: _						Rush Run						_ ,
		Di	strict:	—Smit	hfie	1d - 4	5_ c <sub>9</sub>	uniy: Ro	ane 08	17	Quadrangle:	Tarri	ff 7.	563	34
6)	WELL OF						DE: 6	450	7) DESIGNA	TED AGE	NT Harry	C. Bo	ggs		
	Addres		P.O. 1		1	<u> </u>	····		Address	-	0. 148	. `			
	-		Spe	ncer,	WV 2	5276_	,			<u>Sr</u>	encer,	<u>WV 252</u>	76		
-,		s inspec							9) DRILLING Name	G CONTRA Boggs	асток: Natural	GAS CO	) .		
•	Addres		ooneyv						Address		O: 148			· · · · · · · · · · · · · · · · · · ·	
			7					-			pencer,	WV 252	276		
10)	PROPOSE	D WELL	WORK:						/ Redrill		•	(X/			
				Plug c	off old	formation	on	_/ Perfo	rate new format	ion	_/				
				Other	physical	change	in well (s	pecify)		·				·····	
11)	GEOLOG	ICAL TAR	GET FOR							····		***************************************		<del></del>	
		ated depth						feet							
		oximate tra							t,						
					***********			ls co	oal being mined in	the area?	Yes	/	NoX	<u> </u>	
•		AND TUB	ING PRO	GRAM											
	ING OR ING TYPE		SPEC	CIFICATION Weight	<b>√</b> S			FOOTAGE	INTERVALS	CE	MENT FILL-UP OR SACKS		PACKER	S	
		Size	Grade	per ft.	New	Used	For	drilling	Left in well	400	(Cubic feet)				
Condu	ctor	<b> </b>		ļ	ļ	<u> </u>			ļ		······································	Kinds			
Fresh v	vater	8.25		ļ	ļ	<b> </b>	34	-0	220		xisting		·		
Coal		<b> </b>	ļ		<b></b>	<b> </b>	<b></b>	<del></del>				Sizes		***************************************	
Interme	ediate	7''		ļ	<u> </u>	-	4		1612	<u> </u>	existing	<u> </u>			
Produc	tion	4.5"	ļ	1		<u> </u>	<b></b>		57501		30001	Depths s	et		
Tubing				ļ	ļ	ļ	1		<b></b>		the transfer of the second of		~~~		
Liners						<b></b>						Perforati	ons:		
		(MI	L CEM	INT)				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1742' pric		***	Тор		Bottom	1
		<u> </u>			Con	nence	hent	of dri	Iling acti	<u>vities</u>	)				
					of the second					I					
	·····				···										
				·			OFFIC	CE USE	ONLY			···			
							DRILI	LING PE	RMIT						
	t number_	47	7-087-4	4040-D	D						April 8	3		19	87
ei iiii	ı number _								*			ate			
This n	ermit cov	ring the w	ell operato	or and we	II locati	on show	n below i	s evidence	of permission gr	anted to di			he nertin	ent lea	al re-
uiren	nents subj	ct to the c	onditions (	contained	herein	and on t	he reverse	hereof No	tification must be	e given to t	he District O	il and Gas	Inspector	r (Refe	er to
0.0)	rtior to m	e construc	uon oi ros	ids, locati	ons and	pits for	any perm	itted work. commence	, in addition, in	e well oper	ator or his co	intractor sl	iall notif	y the p	roper
	ermitted w e hereof.	ork is as d	escribed in	the Noti	ce and A	Applicati	ion, plat,	and reclam	ation plan, subje	ect to any r	nodifications	and condit	ions spec	cified o	n the
	t expires _	A	pril 8	, 1989	9			_unless wel	l work is commen	ced prior t	o that date an	d prosecute	ed with d	ue dilig	ence.
												,			
Во	ond:	Agent	· E	lat:	Casi	ng.	Fee	WP.CZP	9&E-	Othe	r	•			
11	0/01	~ ~ /	1 1	X	B	1/1.	a 18.	1 2			1				

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

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NOTE: Keep one copy of this permit posted at the drilling location.