

SEP 10 1986

IV-35 (Rev 8-81)

## DIVISION OF Strate of Mest Hirginia DEPARTMENT OF Bepartment of Mines Gil und Gas Bivision

Date Se	otember !	5, 19	986
Operator's Well No.			
Farm	Thomas	Rif	fle
API No. 47	- 107	_	1399

## WELL OPERATOR'S REPORT

OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL I	YPE:	Oil $\chi$ /(If "Gas,	Gas <u>χ</u> / " Producti	Liquid I on <u>X</u> /U	njecti Indergr	on_ cour	/ Wast	te Disposal ge/ Deep	/ / Sha	11ow	_/)
የ ( ጉላጥ ነ	ON•	Elevation:	· 602'	Water	shed		Ohio Riv	er	•		
III.	OIV.	District:	William	s Count	y	Woo	d	Quadrangle	a Valley N	1ills	
	7.7	D3 augus	Hall Cany	ico Inc							
COMPAI	NY	Blauser	well serv	50	·	T		T		Cemer	it
		Mariett				1	Casing	Used in		fill	
		AGENT St					Tubing	Drilling	in Well	Cu.	It.
		Big Spr					Size 20-16				
		NER Thomas					Cond.			<u> </u>	
		Willian		26187			13-10"			<u> </u>	
MINER	AL RI	GHIS OWNER	same				9 5/8			<del> </del>	
ADDRE	SS					1	8 5/8	250'	250'	surf	ace
OIL A	ND GZ	S INSPECTO	R FOR THIS	WORK G	<u>len</u>		7				
Rob	inson	ADDRESS	<u>Mineralwe</u>	ells, WV			5 1/2				
PERMI	T.ISS	SUED	March 6,	1986			4 1/2	1919.78'	1919.78'	250	SX
DRILL	ING C	OMMENCED_	March 27,	1986			3				
DRILL	ING C	OMPLETED_	April 1,	1986		,	2				
CONTI	NUOUS KING.	ABLE: PLUG S PROGRESSIO VERBAL P	ON FROM DR ERMISSION (	ILLING O	R		Liners used				
		TARGET FO		Berea				Dep	th 1950		feet
		n of comple				. F		X / Cabl			
		r strata đe								-	
		seam depth								e area	? no
			J•	, -				,			
		DATA	.:	Davis			D:	av zone der	hth 1857	•	feet
	Prod	ucing forma Initial o	tion_	· o	Nof /a			nitial open	flow ty	~2.0	
	Gas:	Initial o	pen ilow_	(25)	_MC1/C	1 3	OTT: II	inal open f	:1av (	3	Bb1/d
				_							<i></i>
			_					final tests			ust in
		ic rock pre						alent) alu	T 100 110	TI'S 21	iuc III
		applicable							. 4.3.		foot
	Seco	nd producir	g formatio	on			P	ay zone deg	)		
	Gas:	Initial o									
								inal open i			_ppT/q
								final tests			
	Stat	ic rock pre	essure	psig	g (surfa	ace	measure	ment) after	ho	UTS ST	iut in
								(Conta	mue on r	OLF ]	5 198

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

Perforated interval 1857'-1861' with 17 shots (.49 dia.) Acidize with 250 gal. 15% HCL Fracture well with 829 bbls. water and 51,000 lbs. 12/20 mesh sand

#### WELL LOG

	<b>V1.</b>			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMAR Including indica and salt water,	KS ation of all fresh coal, oil and gas
Sand	750	850	some gas	
Shale Sand	850 880	880 920	oil show	
Sand & Shale Sand	920 986 1000	986 1000 1060	saltwater	
Shale Sand Sand & Shale	1060 1060 1108	1108 1380	saltwater	
Big Injun Sand Shale	1380 1482	1482 1806	saltwater	
Coffee Shale B <u>erea</u> Sand Shale	1806 1856 1860	1856 1860 TD	oil & gas	
		TO 1920'		
		TO 1920' btm 42"cg	9	
<b>\$</b>				
			·	•
				• • • • • • • • • • • • • • • • • • •
			1	

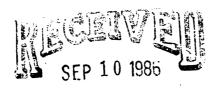
(Attach separate sheets as necessary)

Bla	user Well S				
Wel	1 Operator		1/ 1		
By:	How	M.	Hick	Sec./Treas.	
Date:_	9/5/86				<del></del>

Note: Regulation 2.02(i) provides as follows:

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

FORM IV-36 [08-78]



Date:	Sept. 5,	,1986
Operator's Well No.	#1 (T. R	Riffle)
API Well No.	47 - 10 State Cou	7 - 1399 Permi:

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

# WELL OPERATOR'S REPORT OF INITIAL GAS-OIL RATIO TEST

WELL OP	ERATOR Blauser	Well Serv	vice, Inc.	DES	[GNATEI	AGENT	Stanley K. Wil	son		
bA.	dress P.O. Box	829	•	_	Addre	:55	Route 1, Box 116			
	Marietta	, OH 457	750	•			Big Springs, W	V 26137		
GEOLOGIO	CAL TARGET FORMATIO	ON:	Berea			Depth	1857	feet		
		•		Perforat	ion In	terval	1857 - 1861	feet		
GUIDELIN	NES FOR TESTING:			•	٠					
2- 3- 1-	A minimum of gas v A 24 hour preflow Uniform producing Measurement standa Separate Form IV-3	into pipe: rate duri rds as fo	lines or tanks ng the 24 hour r Form IV-39.	"Report of	Annua	1 Production	" ( <u>see</u> Regulatio tion	n 21.01)		
		•	ТЕ	ST DATA						
	START OF TEST-DATE 7/15/86	TIME 9:00 am	END OF TEST- 7/16/86	DATE	TIME O am	DURATION 24 h	OF TEST	<del></del>		
		CASING PRES	SURE SEPARAT	OR PRESSURE		SEPARATOR TEMPE	RATURE			
	OIL PRODUCTION DURIN		PRODUCTION DURI		TER PROD		TEST & SALINITY			
*	OIL GRAVITY	bbls.	35 PRODUCING	Mcf		- bbls. umping, gas li	ppm.			
• •	465	*AP	fl fl	owing	owing, p			_		
			GAS P	RODUCTION				_		
	MEASUREMENT METHOD FLANGE TAP X	PIPE TAP		NO DOC 11 OIY	1	TIVE CHOKE ICAL FLOW FROV	r	<del>-</del>		
	ORIFICE DIAMETER 1/2"		PIPE DIAMETE	R (INSIDE DI	AM.)	NOMINAL CHOKE	SIZE - IN.	-		
	DIFFERENTIAL PRESSUR 0 - 100	E RANGE	MAX. STATIC	PRESSURE RAN 250#	IGE	PROVER & ORIFIC	CE DIAM III.	-		
	DIFFERENTIAL 4 1/2	ři .	STATIC 100#			GAS GRAVITY (A	ir-1.0) ESTIMATED	-		
	GAS GRAVITY (Air-1.0	<b>)</b>	FLOWING TEMPS 70	RATURE F	<del></del>	GAS TEMPERATURE		•		
	24 HOUR COEFFICIENT		70_	5	i i	24 HOUR COEFFIC	CIENT	-		
• ·	1,700					PRESSURE -	psia			
				RESULTS				:		
	DAILY OIL bbis.	DAILY WATE	R - bbls.	DAILY GAS	) м.	GAS-OIL et. 11,6	_			
				By: _ Its:	A	Well Servic Well سے کسے ecretary/Tre	Operator .  Howk			

FORM WW-2(B) FILE COPY (Obverse) 7/85





1)	Date:	Mi	arc	•, 15	<u>. 12.</u> 86		
2)	Operator's Well No	#:	1	(T.	Riffle	)	
3)	API Well No.	47		107	-1399		
	•	State		Cou	nty	Permit	

#### STATE OF WEST VIRGINIA

### DIVISION OF OIL & RTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGYAPPLICATION FOR A WELL WORK PERMIT

				.,		.,								
4)	WELL TY	PE:												
			B (1	f "Gas", I	Production	^		/ Un	derground sto	rage	/ Dee	p	_/ Shallow	<b>/</b> /)
5)	LOCATIO	N:	Ele	vation: _	<u> </u>	11:00	60			Ohio Ri			- 7 7	77.7.
			Di	strict:	W	l l d		⊇ Coi	inty:	Wood	Qua	drangle: <u>V</u>	alley Mi	115 /.5
6)			TOR.	Denn15	5 U. B	aus	er cor	<u>بط</u> : عر	7)	DESIGNATI	ED AGENT.	Stan	iey K. W	ilson
	Addres	5		Blause	er well	_ 261	rvice	Lnc.	45750	Address	***		e 1. Box	
							ar rec	la, UI					<u>Springs,</u>	WV 26137
8)	OIL & GA			Clani			_		9)	DRILLING	CONTRACT		Dudil	<b>.</b>
	Name			Doute	Rob-	ME	Dloor		st.	Name		warr	<u>en Drill</u>	ing
	Addres	S							.St.	Address		·		011 45707
				minera	alwells									<u>OH 4572</u> 7
10)	PROPOSE	ED V	ELL	WORK:	Drill	Χ	_/ Drill	dee	per	_/ Redrill	/ Sti	mulate_🗶	/	
										new formation		•		
					Other pl	nysical	_							
11)	GEOLOG							30	.5					
	12) Estim	ated	depth	of complet	ed well, _		<u> 1950</u>		feet					
	13) Appro	oxim	ate tra	ta depths:	Fresh,		50	fe	et; salt,	<u> 1450</u>	feet.			
	14) Appro								Is coal	being mined in t	the area? Ye	s	/ No_	/
15)	CASING A													
CA	SING OR	H		SPEC	IFICATIONS			1	FOOTAGE INT	ERVALS	] CEMEN	T FILL-UP	PAC	KERS
TU	BING TYPE	1	Size	Grade	Weight per ft.	New	Used	For	drilling	Left in well		SACKS (c feet)	1	
Cond	iuctor	1 1	3/4	<del></del>	<del></del>		1	100	60'	601		rface	Kinds O	
	n water	_		H-40		X	1	7	250'	250'		rface		UE 15.05
		+	, 5, (	11 70		^_			.50		10 30	TTACE		E 10.00
Coal		╫		<del> </del>	<del> </del>		<b> </b>	-		· · · · · · · · · · · · · · · · · · ·			Sizes	
	mediate	+,	1/2	J-55	10 5			10	950'	1950'	- Habaya	657+	1	
	luction	# 7	1/4	0-55	10.5	X	-	13	/50	1950	above	salt-		20 0 7 10
Tubi	ng	#-			<del> </del>						-0		45 P	EQUIPED!
Line		₩		ļ						· · · · · · · · · · · · · · · · · · ·	LULE	15.01	Perforations:	
		-∦		ļ									Тор	Bottom
		#-		<u> </u>				ļ					<b> </b>	***************************************
	<del></del>	1_		L	<u> </u>		<u> </u>	<b>I</b>					l	
								<del></del>						
					<del></del>				CE USE ON					
	•							DRILI	LING PER	MIT				
D	nit number_		47-	107-1	399							M:	arch 6	19 86
- 611	int number _								•	<del></del>		Dat		
This	permit cov	ering	the w	ell operato	or and well	locati	on show	helow i	s evidence of	nermission grav	nted to drill i			ertinent legal re-
quir	ements subj	ect to	the c	onditions	contained	herein	and on th	ne reverse	hereof Notifi	cation must be	given to the l	District Oil	and Gas Insne	ector, (Refer to notify the proper
0. 8	) Prior to the	ne co	nstruc	tion of ros	ds, locatio	ns and	pits for	any perm	itted work.	In addition, the	well operato	or his con	tractor shall n	otify the proper
<b>1</b> 1511	ict oil and	gas 11	nspecto	or 24 hour	s before ac	tual pe	rmitted	work nas	commenced.)	)				
	•	vork	is <b>a</b> s d	escribed in	the Notic	e and A	Application	on, plat,	and reclamati	on plan, subjec	t to any mod	ifications a	nd conditions	specified on the
	rse hereof.		240 m	ch 6.	1988									
Perr	nit expires		mai	ch o,	1900				_unless well w	ork is commend	ed prior to th	at date and	prosecuted wi	th due diligence.
_							<del></del>		<del></del>			_		
1	Bond:	A	gent	: F	lat:	Casi	ne	Fee	WPGP/	S&E	Other			•
		- 7	7	72 P	K!	N			1 7/5	ÄC	0001		-	•
L		1	-/	<u> </u>	ادر	X	<u>&gt; /</u>	132		1475	<u> </u>	1		/
									$\cap$ 4	16.4	/ 1	M		2,/
				*					Hen	Hann	wanter	IIR	raant.	1 these
NO.	ΓE: Keep	one o	ору о	f this perm	it posted a	it the c	irilling lo	cation.	Dir	ector, Di	ivision	of Oil	and Gas	rii.
				e	the reserve		f the AT	DIICAN	TIC CORV	<del>-                                    </del>			/	File
				266	une revers	: siae (	n me At	TLICA	UVUUTI	or <b>histructions</b>	to the Well Of	RIBIUI. 🗸	•	