



WR-35

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

## State of Mest Airginia

DEPARTMENT OF ENERGY Gil und Cas Zivision

Date 7-13-87							
Operator's							
Well No. #4							
Farm Gregg #4							
API No. 47 - 095	<b>-</b> 1199						

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/CR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas XX / Liquid Injection (If "Gas," Production / Undergroup / Und	on/Wast	e Disposa e/ Deep	1/ p/ Sha	llowXXX/)
LOCATION: Elevation: 826 Watershed M				
District:Centerville County Tvl			⊖West Uni	on
COMPANY Anvil Dil Co. Inc.				
ADDRESS P.O. Box 2566 Clarksburg WV	[0			Cement
DESIGNATED AGENT Justin Henderson	Casing	Used in		fill up
ADDRESS P.O. Box 2566 Clarksburg WV	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER Mildred Gregg	20-16			
ADDRESS General Delivery Alma WV	Cond.			
MINERAL RIGHTS OWNER as above	13-10"			
ADDRESS as above	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	9 5/8	969	969	cts
owther ADDRESS Middlebourne	7			
PERMIT ISSUED 6-29-87	5 1/2			
DRILLING COMMENCED 7-1-87	4 1/2	4826	4826	175 sks
DRILLING COMPLETED 7-5-87	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2	. ,		
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used	·		
CN	,	1		L
GEOLOGICAL TARGET FORMATION Benson				feet
Depth of completed well 4893 feet	Rotary XXX	XX/ Cable	e Tools	
•	Salt	feet		
Coal seam depths: 40-42	_ Is coal :	being mine	ed in the	area? No
OPEN FLOW DATA				
Producing formation Benson	Pay	zone dept	h 4726-	36 feet
Gas: Initial open flow 277 Mcf/d	Oil: Ini	tial open	flow 0	Bbl/d
Final open flow (2350) Mcf/d	Fin	al open fl	low <u> </u>	Bbl/d
Time of open flow between ini-	tial and fi	nal tests	_4ho	urs
Static rock pressure 1675 psig(surface	ce measurem	ent) after	r_32_hou	rs shut in
(If applicable due to multiple completion	n)	ř		
Second producing formation Riley	Pay	zone dept	th 4327-4	355 feet
Gas: Initial open flow commingled Mcf/d	Oil: Ini	tial open	flow_0	Bb1/d
Final open flow commingled Mcf/d	Oil: Fin	al open fi	low	Bbl/d
Time of open flow between ini	tial and fi	nal tests	4ho	urs
Static rock pressure as above psig (surface	e measureme	ent) after	32 hou	rs shut in
		(Conti	mia an na	nanca cida

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

Perforate Benson 4727-4734 (14 holes) Frac with 400 sks sand, 300 gal HCL 400 bbls treated fluid, 105,000 scf N2 Avg rate = 17 Avg psi = 1950

Perforate Riley 4327-4355 ( 14 holes) Frac with 400 sks sand, 500 gal HCL, 400 bbls treated fluid, 100, 000 scf N2, Avg rate = 20, avg psi = 2000#

## WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
top soil coal RR/rock sd/sh sd sh/sd lime sd/sh sd sh sd sh sd sh	0 42 1075 1270 1390 1640 1705 1740 1880 20502167 2160 2660 2770	40 42 1075 1270 1390 1640 1705 1740 1880 2050 2160 2660 2770 4893	damp 290'  E-Log Tops  Big Lime 1683 Green Briar Injun 1732 Berea 2232 Riley 322 4322 —Benson 4726
DEC 08 1987  DIVISION OF OIL & GAS DEPARTMENT OF ENERGY			

(Attach separate sheets as necessary)

	* .	
Well Operator	4.44	
Ву:		
Date:		

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 of a well."





1) Date:		June 22	, 1 <u>9</u> .87
2) Operator's Well No.	Gred	ng #4	
3) API Well No.	47	095	1199
-,	State	County	Permit

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

4) WELL TYP										
* * * *	B · · (I	f "Gas", l		<u> XX</u>	/		-	/ Deep	/ Shallow .	.XX/)
5) LOCATIO		vation: _					<u>Middle [sl</u>			7
			enterv					Quadrangle: 🛚		
6) · WELL OP				Inc	CODE:	<u>200/5</u>	<ol><li>DESIGNATE</li></ol>	DAGENTJusti	<del>n Henders</del> o	ш
Address		. Вох				·	Address	P.O. Box 25		
	<u>Cla</u>	<u>rksbur</u>	<u>'д WV</u>	_263	01	<del></del>		Clarksburg	_ WV _ 2630	1
8) OIL & GA	S INSPEC	TOR TO	BE NOTII	FIED			9) DRILLING C	ONTRACTOR:		
Name	Bob	_Lowth	er				NameCoa	stal Corpora	tion	
Address	Gen	eral D	eliver	y			Address			
	Mid	<u>dlebou</u>	irne li	N		<del></del>				
n PROPOSE	D WELL	WORK:	Drill X	X	_/ Drill	deeper	/ Redrill	/ Stimulate	XX/	
1							ate new formation			
taring and the second			_							
II) GEOLOGI	CAL TAR	GET FOR	•	-	-					
12) Estima					00	feet				
					65			feet.		
13) Appro	vimate con	a ucpins. I seem den	the		n	Is co:		ne area? Yes	/ No ½	'YY /
14) Appro						13 000	ar oeing innied in th	icarca: Ica		AA
•	IND IODI					FOOTAGE II	NTERVALC	N CEMENT FILLUR	¶ PACK	rne
CASING OR TUBING TYPE	1.	SPEC I	CIFICATIONS Weight	, I			1	OR SACKS	FACE.	LKS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	1 4	Don Gilo
Conductor	11 3/	+	ļ	_X		1220/4	0004	1 Julia	Kinds (Let)	16 W
Fresh water	<b>!</b>	ļ	ļ	ļ	<del>                                     </del>	200ft	200 ft	Comerted to	surface.	
Coal	<b> </b>		ļ						Sizes	
Intermediate	8 5/8		20	_X	<b> </b>  -	950	950	lcts de	PRA FILLE.	<u> 15,03</u>
Production	4 1/2		10.5	Χ			4800	230 sks <i>f</i>	Depths set	
Tubing			<u> </u>							
Liners	<b></b>								Perforations:	
			<u> </u>						Тор	Bottom
,	<del></del>									
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1					O	FFICE USE O	ONLY			
						RILLING PE				
								June	e 29	10 87
Permit number_	<u>-</u>	<u>47-0</u>	<u>95-119</u>	9						19 67
									ate	
This permit cove	ering the w	ell operat	or and wel	l locati	on shown be	elow is evidence	of permission gran	ted to drill in accorda	ince with the per	tinent legal re-
quirements subje	ect to the c	onditions	contained	herein :	and on the r	everse hereof Not	ification must be g	given to the District O well operator or his co	il and Gas Inspec	tor, (Refer to
district oil and g	e construct	non or ros	s before a	ons and	pits for any ermitted wor	k has commence	d.)	wen operator or ms ec	miracior shan ne	any me proper
								to any modifications	and conditions s	necified on the
The permitted w reverse hereof.	ork is as d	escribed ii	n the Notic	e and A	Application,	piat, and reciam	ation plan, subject	to any mounications	and conditions s	pecined on the
		Ju	ne 29,	198	9	unless well	work is commence	ed prior to that date an	d prosecuted wit	h due diligence
Permit expires _						unicss wen	work is commence	u prior to that date un	a prosecuted with	a dat dingenet.
<del></del>		/ -	<u> </u>				/ /			
Bong:	Agen	: 1	lat:	~Casi	ing Fe	ey WPCP	/ S&F/	Other		
	i/	1 1/4	<i>II</i>	W	3/4	7   1/	'   1/ <b> </b>			
V	V		<u>)</u>	<del>*10</del>		, L V				
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0 i 0 i 0 i 0 i 0 i 0 i 0 i 0 i 0 i 0 i						. /	fine of	Johnsto	/	·
NOTE: Keep of	one copy of	f this pern	nit posted	at the c	irilling locat	ion. ∫ D:	ikector, Di	vision of 0il	Land Gas	. File
		Sac	the rever	e side	of the APPI	ICANT'S COPA	for instructions t	othe well operator	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	