

FERC 1/27/87



WR-35

State of West Wirginia

DEPARTMENT OF ENERGY
Dil und Gas Division

Date <u>December 8, 1986</u> Operator's Well No. Waco #402
Well No. Waco #402
Farm Young #2
API No. 47 - 021 -4385

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

CATION: Elevation: 975' Watershed	Tanner Cre	ek		
District: Dekalb County Gilm	er	Quadrangle	Tanne	1x 7.51
	. ,			
OMPANY WACO OIL & GAS CO., INC.			I	Cement
DDRESS PO Box 397, Clenville, WV 26351	Casing	Used in	Left	fill up
ESIGNATED AGENT Stephen E. Holloway	Tubing	Drilling	in Well	Cu. ft.
DDRESS PO Box 397, Glenville, WV 26351	Size			
JRFACE CWNER Adrian Collins	20-16 Cond.			
DDRESS Tanner, WV	13-10"			
INERAL RIGHIS OWNER Maynard F. Young et al	9 5/8			
DDRESS Glenville, WV	8 5/8	958	958_	surf
IL AND GAS INSPECTOR FOR THIS WORK Craig	7			
Duckworth ADDRESS Gassaway, WV 26624	5 1/2			
ERMIT ISSUED August 27, 1985	4 1/2		6224	730 sks
ORILLING COMMENCED November 13, 1986	3			
RILLING COMPLETED November 18, 1986	2			
T ADDITCABLE: PLUGGING OF DRY HOLE ON				
ONTINIOUS PROGRESSION FROM DRILLING OR	Liners			
EWORKING. VERBAL PERMISSION OBTAINED N			<u> </u>	
	į	Dep	oth 50	ggofeet
Depth of completed well 6289 feet	Rotary			
Water strata depth: Fresh 90 feet;	Salt No.	ne feet	:	
Water strata depth: Flesh 90 Coal seam depths: None	Is coal	being mir	ed in the	e area?No
DPEN FLOW DATA			. 4	E
Producing formation Shale, Elk, Alexander	, Riley Pa	y zone dep	oth see	treatmentee
Gas: Initial open flow Mcf/d	Oil: In	itial oper	i flow	BDL/C
Final open flow 1384 Mcf/d	Fi	nal open i	TOW_Cho	m)
Time of open flow between ini	tial and f	inal tests	54h	ours
Static rock pressure 1595 psig(surfa	ice measure	ment) afte	er_48_ho	urs shut i
(If applicable due to multiple completion	n)			
Second producing formation Balltown, Spe	echly Pa	ay zone del	othsee tr	eatment fee
	Oil: I	itial ope	n flow	BD1/
Gas: Initial open flow Mcf/d				1
Cas: Initial open flow Mcf/d	oil: F	inal open	flow	Bb1/
Gas: Initial open flow Mcf/d Final open flow Mcf/d Time of open flow between in	Oil: F	inal open	flow	BDI/

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

1st Stage - Devonian Shale (6204-5592), 500 gal 15% Hcl, 35 ton $^{\rm CO}_2$, 268 MCF $^{\rm N}_2$

2nd Stage - Elk, Alexander (5345-4929), 500 gal 15% Hcl, 35 ton $\rm CO_2$, 390 MCF $\rm N_2$

3rd Stage - Riley (4617-4350), 500 gal 15% Hcl, 80 ton CO_2 , 558 MCF N_2

4th Stage - Balltown (4120-3578), 1000 gal 15% Hcl, 80 ton $^{\rm CO}_2$, 1002 MCF $^{\rm N}_2$

5th Stage - Speechly (3283-3256), 500 gal 15% Hcl, 20 ton $^{\rm CO}_2$, 704 MCF $^{\rm N}_2$

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Redrock	. 0	30	
Sand	30	145	불" Fresh II ₂ 0 @ 90'
Sand & Shale	145	290	
Redrock & Shale	290	900	77.90
Sand & Shale	900	1843	
Little Lime	1843	1866	
Blue Monday	1866	1885	
Big Lime	1885	2021	
Big Injun	2021	2029	
Sand, Shale	2029	2216	Since we will be
Weir	2216.	2263	260 37
Sand & Shale	2263	-2515	
Gordon	2515	2250	822 1 46 /7 225 4 4 2 3 4
Sand, Shale	2250	3244	0.28%
Speechly Section	3244	3571	830 5229
Shale	3571	3631	
Balltown Section	3631	4153	
Riley Section	4153	4606	
Shale	4606	4685	
Benson	4685	4690	
Sand, shale	4690	4914	
Alexander	4914	4966	
Shale	4966	5078	
Elk Section	5078	5335	
Shale	5335	6207	
Marcellus	6207	6269	6249
Onondaga Limestone	(Attach se	parat ⁶²⁸ heets	a ab necessary)

WACO OIL AND GAS CO., ICN.
Well Operator

By: Daniel R. Chapman, Geologist

Date: December 8, 1986

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."

A114 2 1 1985



1)	Date: Aug	gust	14		85
2)	Operator's Well No	Waco	#402 -	Young	#2
3)	API Well No.	47	- 021	- 438	35
		State	Co	untv	Permit

DIVISION UP OIL & GAS STATE OF WEST VIRGINIA DEPARTMENT OF ENDEPARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TYP									57
						/ Underground s	torage	/ Deep	_/ ShallowX/)
5) LOCATIO	N: Ele	vation:	Dov	2 <i>1)</i>		Watershed:	<u>Tanner Cree</u>	K	Tannar 7 5
	Dis	strict:	Dek	300 C	CODE	. 5/8/10	GIIMEI	Quadrangle:	en E. Holloway
•		O Box						PO Box 397	
Address		<u>о вох.</u> lenvil					Address		WV 26351
					221		0. 551111100		WV 20331
8) OIL & GAS							9) DRILLING C		1 Commiss Inc
Name									l Service, Inc.
Address		. 1. B					Address		
		ndridg	,					<u>Glenville</u> ,	
10) PROPOSE	D WELL	WORK:						/ Stimulate	<u>X</u> /
			_				ate new formation		
11) GEOLOGI	CAL TAR	GET FOR	MATION,		EIK.	43 F			
12) Estima	ited depth	of complete	ed well, _		990	feet	••		
							, None		
				1	None	Is co	al being mined in th	e area? Yes	/ No/
15) CASING A	ND TUB	ing proc	GRAM					•	
CASING OR		SPEC	IFICATIONS		ı	FOOTAGE I	NTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water									N.
Coal									Sizes
Intermediate	8 5/	8 ERW	20#	Х		975	975	to surface	By rule 5.00
Production	17	2 J-55					5990	700 sks.	Bepths set
Tubing						WILLIAM			
Liners									Perforations:
									Top Bottom
	1.								
**************************************		1							
	N	<u> </u>				······································			-11
	•								
					(FFICE USE (ONLY		
					-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,	RILLING PE			
					-				
Permit number_	47-	021-4	385				***************************************		gust 27 1985
								Da	,
This permit cove	ering the v	vell operato	or and wel	locatio	on shown t	below is evidence	of permission gran	ted to drill in accorda	nce with the pertinent legal re-
quirements subje	ect to the o	conditions	contained .	herein a	ind on the	reverse nereor No	lification must be g	iven to the District Oi	and Gas Inspector, (Refer to ntractor shall notify the proper
district oil and g	as inspect	or 24 hour	s before a	tual pe	rmitted wo	ork has commence	d.)	wen operator or mis co	made of shall notify the proper
_	-							to any modifications	and conditions specified on the
reverse hereof.					ppiication	, piat, and reciani	ation plan, subject	to any mounications	and conditions specified on the
Permit expires	Aug	ust 2	7, 19	87		unless wel	work is commence	d prior to that date and	d prosecuted with due diligence.
								•	
			1			The state of the s			
Bond:	LAgent	: I	lat:	Casi	ng F	ee WPCP	S&E	Other	
-		1	nut	m	11/14	115			
L			- J - 1 '			- December 1		7	s. /
							K	J-Jaedam	To the second se
NOTE: Keep of	one copy o	f this pern	nit posted	at the d	rilling loca	ition.	i rooter Di	vicion - 5 0-1	and Coo
		p			· · ·	υ	rrector, DI	vision of Oil	and Gas Me

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