

75/87



WR-35

State of Mest Wirginiu

DEPARTMENT OF ENERGY
Wil und Was Philision

	nuary 10, 1987
Operato	r's
Well No	. Waco #455
Farm Fa	nworth #1A
API No.	47 _ 021 _ 4535

WELL OPERATOR'S REPORT

OF

DETECTIVE.	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

Tignid Injectio	n / Wast	e Dismosa	1 /	
ELL TYPE: Oil / Gas x / Liquid Injection (If "Gas," production X / Undergro	und Storag	ge/ Deep	p/ Sha	llow_X/)
OCATION: Elevation: 748 Watershed	Leading Cr	eek		
District: Troy County Gile	mer	Quadrangl	e Auburn 7	.5'
	• ,			
- The Use Oil & Cas Co Inc				
OMPANY Waco Oil & Gas Co., Inc. DDRESS P.O.Box 397, Glenville, WV 26351	Carina	Used in	Left	Cement
ESIGNATED AGENT Stephen E. Holloway	Casing Tubing	Used in Drilling		fill up Cu. ft.
DDRESS P.O.Box 397 Glenville, WV 26351	Size	DETTING	TII NETT	
URFACE OWNER Glennard Adams	20-16	28	28	translation of
DDRESS Newberne, WV	Cond,	20	20	
INERAL RIGHTS OWNER H. L. Farnsworth Hrs.	13-10"			:
DDRESS Linn, W	9 5/8	F21	E21	Surf
IL AND GAS INSPECTOR FOR THIS WORK Craig	8 5/8	531	531	Surr
Duckworth ADDRESS Gassaway, W	7	-	e e	
	5 1/2		(1/0	690 sks
ERMIT ISSUED December 12, 1986 RILLING COMMENCED December 21, 1986	4 1/2	:	6168	1 690 sks
RILLING COMPLETED December 30, 1986	3			
F APPLICABLE: PLUGGING OF DRY HOLE ON	2			
PROGRESSION FROM DRILLING OR EMORKING. VERBAL PERMISSION OBTAINED N	Liners used			
		Dep	th 5500	feet
EDIOGICAL TARGET FORMATION Elk	Rotary			
				:
Water strata depth: Fresh ^{30,130} feet;	Te coal	being min	ed in the	area? No
Coal seam depths: None	. 13 COUL	مريدين وريدي		
PEN FLOW DATA				
Producing formation Shale, Elk, Alexander, Benson	Pay	zone dep	th See Treat	ment feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow (210) Mcf/d	Fir	nal open f	low show	Bb1/d
Time of open flow between init	ial and fi	nal tests	4 ho	urs
Static rock pressure 1560 psig(surface	e measuren	ment) after	r_48 hou	rs shut in
(If applicable due to multiple completion	1)			
Second producing formation Riley, Balltown, Spe	echly Pay	y zone dep	th See Trea	itment feet
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	Bb1/d
Final open flow Mcf/d	Oil: Fi	nal open f	1cw	Bb1/d APR 20
Time of open flow between init	ial and f	inal tests	hc	urs
Static rock pressure psig(surface	e measurem	ent) after	hou	rs shut in

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

lst Stage: Shale (6122-5596) 500 Gal 15% HCL,50 ton ϖ_2 , 646 mcf N₂ 2nd Stage: Elk,Alexander (5324-4593) 750 gal 15% HCL, 50 ton ϖ_2 , 618 mcf N₂

3rd Stage: Benson, Riley (4331-3840) 750 Gal 15% HCL, 50 ton Ω_2 , 668 mcf Ω_2

4th Stage: Balltown, Lower Speechly (3542-3000) 750 Gal 15% HCL, 50 ton ∞_2 , 918 mcf N_2

WELL LOG

		•			•
i					REMARKS
1					Including indication of all fre
FORMATIO	N COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	and salt water, coal, oil and o
LOWWITTO					all date was
Çlay			0 .	28	0.201
Gravel			28	33	3" Stream @ 30'
. Sand			33	111	0.10.1
	Shale, Redro	ck	111	563	2'' Stream @ 13-'
Sand 8	Shale		563	1430	
Little			1430	1451	
Shale	1		1451	1472	
Big Li	i e		1472	1565	
Big Ir			1565	1627	
	§ Shale		1627	2758	
	hly Section		2758	3008	
Shale			3008	3064	
	own Section		3064	3545	
	Section		3545	4284	
Shale			4284	4327	
Benson			4327	4332	
Shale		1	4332	4490	
Alexa	nder		4490	4628	
Shale	1		4628	4658	
Elk S	ection		4658	5326	
Shale			5326	6191	
	llus Shale		6191	6252	T. D.
Onond	aga_Limestone	2	6252	- <u>6272</u>	**************************************
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	404	1877			
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	\$ 83	296 Par	CONTRACTOR OF THE CONTRACTOR O		29 38 8 B
	1	100 70 - 66%			Light Control of the
	822	profession)			
	825	4507			
	1	- .			
	830	4827		No. of the Control of	
		*			
]		1	**	

(Attach separate sheets as necessary)

Waco Oil & Gas Co., Inc.

Well Operator

By: Daniel R. Chapman, Geologist

Date: January 10, 1987

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coul, encountered in the drilling of a well." Note:

FORM WW-2(B) FILE COPY



l)	Date:	Nover	nber	10	* 23 4 1,	19_8	36
2)	Operator' Well No	s Waco	455	– Fa	ırnswoi	cth	1A
	API Well		_		-4535		

County

Permit

State

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

	DEPARTA			IL.& GAS F ENER		AI	PPLICAT	ION FOR A WEL	L WORK PERMIT	THEN A TO	The state of the s	·
4)	WELL TYP	E:	B (If "Gas", I	Production		<u> </u>		storage		_/ Shallow	X/)
5)	LOCATION	٧:	Ele	evation:	- 45 m	74	8"//	_ Watershed:	Leading Cree	k ·		<u> </u>
			Di	strict:	9.35	Tro	y 7-	County:	Gilmer 021	Quadrangle:	Auburn /	.5 XXT
6)	WELL OPE	RA	TOR.	WACO_O	IL & G	AS_C	o. Spa	: <u>3/800</u>	7) DESIGNATED	AGENT <u>Stepher</u>	1 E. HOLLO	oway
	Address)_Box_3					Address _	PO Box 397	0625	2
	•			envill			51		· -	Glenville,	WV 2633	
8)	OIL & GAS					IED			9) DRILLING COI			7110
	NameC	ra								MORRIS WEI	J. SERVICE	i, INC.
	Address			_107_D						_PO_Box_397_	0(05	*
			Gas	saway,	_WV2	6624				Glenville,		
10)	PROPOSE	D W	ELL	WORK:	Drill	_X	_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X</u> /	
					Plug of	f old f	ormation_	/ Perfor	ate new formation_	/		•
11)	GEOLOGI	CAL	TAR	GET FOR	MATION,		_Elk					
								feet				
	13) Approx	kima	te tra	ta depths:	Fresh,		None		,None			
	14) Approx						None	Is co	al being mined in the a	area? Yes	/ No	X/
15)	CASING A	ND	TUB	ing prod	GRAM							
	SING OR			SPEC	IFICATIONS			FOOTAGE I	NTERVALS	CEMENT FILL-UP OR SACKS	PACK	ERS
10	BING TYPE		Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Cond	luctor										Kinds	
Fresh	i water								,			
Coal											Sizes -	1/1
Inter	mediate	8	5/8	ERW	20#	X		600	600	18 0 sk s C	15 Ker	K4/2/3,0
Prod	uction		1/2	1	10.5	X			5500	525 sks	Depths set	
Tubi	ng											:
Line	rs										Perforations:	
											Тор	Bottom
								·	7.157.4			
								N - 4 13		7		t serie t∰gir t
							(OFFICE USE	ONLY			
								DRILLING PE				
Perr	nit number_			47-021	-4535						oer 12	19 86
quir lo. 8 distr	ements subje Prior to the ict oil and g	ct to e con as in	the onstructions	conditions of roa or 24 hours	contained l ds, locations before ac	nerein a ns and tual pe	and on the pits for a ermitted w	e reverse hereof No ny permitted work, ork has commence		en to the District Oil ll operator or his co	nce with the per l and Gas Insper ntractor shall no	ctor, (Refer to otify the proper
reve	permitted we rse hereof. nit expires _	ork i		Decemb					ation plan, subject to			
I	Bond:	A;	gent Ai	t: F	lat:	Casi		Fee Wrcp	7 355	Other		70 JF 9 8 3
L	TE: Keep o			,			V	154		1111		