FILE COPY

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

File



	API Well No.	7/	The second	11/1		4//9
21		47		021	3	4229
	Operator's Well No	Wa	СО	#313-Zi	nn	D MARION
1)	Date:	10 40	Jı	11y 20	,	19_84

County

Permit

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

					A	FFLICATI	ON FOR A WE	LL WURK PERMI		
4)	WELL TY	PE: A O	il-j <u>w</u> a	/ G	as X	IT OZ C	ONS (IF AN)	ND CONDITE	DIFICATIONS 2	PERMIT MO
		B (I	f "Gas",	Production	n X	10 m 20	/ Underground	storage	/ Deep	/ Shallow X
5)	LOCATIO	N: Ele	vation: _	12	217'		Watershed: _	Pikecamp	Run L	K75 F5A
						4		Gilmer	Quadrangle: _	Auburn 7.5' 224
6)	WELL OP	ERATOR_	Waco	0il 8	Gas	Co.,	Inc. 51800	7) DESIGNATE	DAGENT Kenne	
	Address	s	1297	N. Le	wis	Street		Address	1297	N. Lewis Street
			Glen	ville,	WV	2635	1		Glenv	ille, WV 26351
8)	OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C		
	Name							NameI		ell Service, Inc.
	Address	s		e 1, B				Address		N. Lewis Street
			Sand	ridge,	WV	2527			Wages and the second state of the second state	ille, WV 26351
10)	PROPOSE	ED WELL V	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate_X	
				Plug of	ff old	formation_	/ Perfo	rate new formation	1 50	TEGET WISH
				Other p	hysical	change in	well (specify)	A SECTION	i	15000
11)	GEOLOG	ICAL TAR	GET FOR	MATION	,	Elk	749			10
	12) Estima					5800	feet		13	U 0 5 1004
	13) Appro						feet; sal	t,none	feet.	JUL 2 5 1984
	14) Appro	ximate coal	seam dep	oths:		none	Is co	oal being mined in th	e area? Yes	/ No/
15)	CASING A	AND TUBI	NG PRO	GRAM						OIL & GAS DIVISION
	SING OR BING TYPE		SPEC	IFICATIONS   Weight	S		FOOTAGE	INTERVALS	CEMENT FILLUP	JEDTPACKERS MINI
	DING TITE	Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	JEP 1. OF IVIII VI
Cond	luctor									Kinds
Fresh	water									
Coal		144								Sizes
Inter	mediate	8 5/8		20	X		500	500'	100 sacks	CTS
Prod	uction	4 1/2		10.5	X			5800'	640 sacks	Depths set
Tubir	ng						ETIRO PSITA	DIFFIC	or as 1	rea by rule 15.
Liner	S			3 00						Perforations:
			anoiroa	1201 016	nollo	ynn hai	occurrences :	dates of certain	is to record the	Top Bottom
	100						9.3	100000000000000000000000000000000000000	F 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	- (2	Date						2515(		
	April 1990				(e)roi	hononi g	Lyplica	s plant et et		hevister unitedition
			26.				FFICE USE			
						Б	RILLING PE	RMIT	July 30	, bornela show 847
Perm	nit number_	47-	021-4	229						1188CROCCEMMONTO II
		Arrest de Lei							Da	teillib ent to nonelumo
This	permit cove	ring the we	ll operato	or and well	locatio	on shown b	elow is evidence	of permission grante		nce with the pertinent legal re-
quire	ments subje	ct to the co	nditions of	contained l	nerein a	nd on the i	everse hereof. N	otification must be	given to the District (	Oil and Gas Inspector, (Refer to
No.	8) Prior to	the construc	tion of re	pads, locat	ions an	d pits for a	ny permitted wor rk has commence	k.In addition, the w	ell operator or his con	ntractor shall notify the proper
	ct on and g	Jul	y 30	1986.	tual pe		k nas commence	u.)		and conditions specified on the
The p	permitted we se hereof.	ork is as de	scribed in	the Notice	e and A	pplication,	plat, and reclam	ation plan, subject t	o any modifications a	and conditions specified on the
	it expires _	Ju1	y 30,	1986			unless well	work is some an and		
CHI	in expires _		1000				unless well	work is commenced	prior to that date and	prosecuted with due diligence.
[-	.110		1				The second			OLHER INSERECTIONS
	ond:/68	Agent	F	Plat:	Casin	g F	ee (			
1	BLANKET	1/	1 2	21/1	mi	1 111	2	7		ACBSON!
		no	- /	11	***	- 1///	1	1 /00	eret Di	Lane
							/	IUTAL	1111	with

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

File

Administrator, Office of Oil and Gas

FILE COPY

Well No.



	NOISIVIO SAD	FFICE USE ONLY				
PERMIT MODIFICA	TIONS AND CON	IDITIONS (IF ANY	TO THE DI	POPOSED W	EII WOD	V T A TOTTE A
		Le Underground storage		Gas", Production		V : 7777 1 1 1 (4.
ZK 7 S F SA	FUE CHESTON FUN	Watershed:	171			SE LOCATIO
adrangle: Aufguren V.5	SUO SOLLET	Côunty:			Distri	
Remarkto Creenistei	ESIGNATED AGENT	Inc. S Sen n	Ges Doky	3 Lit opew		6) WELLOP
1297 N. Levis Street	Address		wid Street	1237 M. TESI		Address
Clenville, WV 26351			4TV 2 2885	GI CIWILING		
	RILLING CONTRACT	9) D	NED	к то ве иоты	S INSPECTO	8) OIL & CA
rris Well Service, Inc.	ame L.L. You	И		Teo Mace		Name
Jestie stwolet Well	Address			and some		Address
1600Z VW SALAKWIDIO				Saudridge.		
The land of the la	Redrill / Sti	deaper deaper	A/ Drill	RK: Drill	D WELL WO	0) PROPOSE
EIW/III) From	w formation/	Perforate ne	f old formation	lo antd		
E WESTER STORY		well (specify)	nysical change in			
3111				T FORMATION.		
UU 28 1984		feet	1000 000	ompleted well,		
# 200	NOVE Tents			epths: Fresh,		
V NO SECTION V	simined in the area? Ye			ani depths:		
OIL & GAS DIVISION					SNIBUT ON	S) CASING A
MIN SPACE PARTY MIN	U.S.S. CEMEN	FOOTAGESNIESE		SPECIFICATIONS  1 Weight :		CASING OR TURNING TYPE
1 mod bond (tool of	Left in well (Cub	For drilling	New Used	Grude per ft.	Size	
Kinds						
						resh water
						dae
277	1,00	085 B	Maria Zan	1 5 OS 1		ntermediate
CCSS Depth set	5 040	EELCE LISE ONLY				roduction of
C/ 1797 FO BAL OF	70	FFICE USE ONLY				<u>s</u> nidu
Extrorations:			1 6.11			
This part of Form IV-2(b) is to re	ecord the dates of c	certain occurrences a	ind any follow	-up inspection	is.	
	Dete				Dete	(-)
	Date			†	Date	(S)
		F-11				
Application received		u-wolloa	p inspection(s)	)	a segretable	
SSZ 11	A CONTRACTOR OF THE PROPERTY O	RHILING PERMIT	a ,,			
Well work started						
Completion of the drilling	PAGE					ermitmumber
n accordance with the pertinent sessong		·,	,	How here voterness		
DIOCESS insulface out him established	HERO OF DAMETS HORSE		1 Dwons nunscyl	HOW DIES TOTAL TOTAL	hara ani gari	ars per mi cove arements subje
District Oil and Cas (universe, Obereto)	ion must be given to the					
District Oil and Cars inspector, (Rater to	ion must be given to the	teverse hereof - Notificat my , milled work in ad	erem and on the	n of ronds, locati	he opastructio	
District Oil and Cars inspector, (Rater to	ion must be given to the		and stig by, and	in of couds, locati	he e <mark>ventr</mark> uctio	
Well Record received	ion mast be given to the dition, the well operator	reverse hereof Notificat my , milled work in ad	ons ,, d pite for a	in of courts, locati Frours before act	he evestructions is inspector 24 The Carlo	o A Prior to I strict oil and ga he permitted we
Well Record received  Reclamation completed	ion mast be given to the dition, the well operator an, subject to any modi	reverse hereof Volifications (e.g., In ad rk has commenced.)  place, and reclaration place.	ons ,, d pite for a	in of courts, locati Frours before act	he evestructions is inspector 24 The Carlo	to a Region to the strict of and grant of the permitted we verse hereof.
Well Record received  Reclamation completed	ion mast be given to the dition, the well operator an, subject to any modi	reverse hereof Volifications (e.g., In ad rk has commenced.)  place, and reclaration place.	ons ,, d pite for a	in of courts, locati Frours before act	he evestructions is inspector 24 Trans	o A Prior to I strict oil and ga he permitted we
Well Record received  Reclamation completed	ion mast be given to the dition, the well operator an, subject to any modi	reverse hereof Volifications (e.g., In ad rk has commenced.)  place, and reclaration place.	ons ,, d pite for a	in of courts, locati Frours before act	he evestructions is inspector 24 Trans	to a Region to the strict of and grant of the permitted we verse hereof.
Well Record received  Reclamation completed	ion mast be given to the dition, the well operator an, subject to any modi	reverse hereof Volifications (e.g., In ad rk has commenced.)  place, and reclaration place.	ons 4,6 plts for ual permitted we and 6,0 pplication.	in of courts, locati Frours before act	he evestructions is inspector 24 Trans	to a Region to the strict of and grant of the permitted we verse hereof.

Reason:

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

)	Date:	July	20
1	0		

,19 84 2) Operator's Well No. Waco #313-Zinn D

3) API Well No. 47 - 021-4229

### State County Permit

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES OFFICE OF OUT & CAG

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TICE OF	APP	T.TC	זא דיים בי	EOD	7	T.77	тт	r. TO DIE			

		NOTICE OF	APPLICATION	FOR A WE	LL WORK	PERMITT			
	RFACE OWN	ER(S) OF RECORD T			(i) COA	L OPERATOR	R_n/a		
(1)	Address	Scott Zinn	0.1010		Auu	ress			·
	Auditess_	Cox's Mill, WV	26342	5(	ii) COA	T. OWNER (S)	ת שיידות ה	ECLARATION	
(ii)	Name -				Name	e OWNER((5)	n/a	ECLARATION	ON RECOR
,	Address					ddress	22/ 4		
									- Andrews
iii)	Name				Name				
	Address				Ac	ddress			
		1		5/;	ii) CONT	I DOCUMENT			
				3(1.	Name	LESSEE W	n/a	LARATION OF	N RECORD:
		•				dress	11/а	1	The state of the s
		TO THE DEDCOM (C) MANAGED	1000		•	-			
		TO THE PERSON(S) NAMED	on for a Well Work	have receive	d this Form	and the follo	wing docume	nts:	
		cementing pro (2) The plat (sur (3) The Construct plug a well),	, which sets out the the well and its l gram; veyor's map) showin ion and Reclamation which sets out the or the site and according to the site according to the site and according to the site	g the well lo	cation on F	one, the proposion IV-6; and	ed casing a	nd J	
			CEIVED THESE DOCUME	NTS IS THAT YO	OU HAVE RIG SE SIDE OF YOU ARE NO	HTS REGARDING THE COPY OF THE TREQUIRED TO THE	THE APPLICATI HE APPLICATI TAKE ANY	TION	
		for a Well Work Permit Department of Mines, whand depicted on attache Construction and Reclam by hand to the person(s before the day of maili	ith respect to a we ed form IV-6. Copie mation Plan have be	ator of the Of ll at the local es of this Not en mailed by r	fice of Oil tion descri ice, the Ar egistered o	and accompanyir l and Gas, West ibed on attache oplication, the	ng documents t Virginia ed Applicati e plat, and	.on	IVE
		6) EXTRACTION RIGHTS					MCNIM	120	3
		Check and provide on Included is the l I hold the rig The requirement o	ease or leases or o	ther continui	g contract	or contracts ]	by which	JUL 25	1984
		7) ROYALTY PROVISIONS							
		Is the right to extr. or other contract or for compensation to the to the volume of oil	ne owner of the oil	y TOT TIAL WE	I royalty	or any similar	provision y related	-	DIVISION F MINE
		If the answer	above is No, noth Form IV-60.	ing additional	is needed.	. If the answer	is Yes,		
		See the reverse the required cop Reclamation Plan	side for line item pies of the Notice a	instructions, and Application	and for in	nstructions con nd Construction	cerning	-	
The t	ruth of t	the information of	n the	WEI	т.				
Notic	e and App	lication is veri	fied		RATOR	WACO OII	& GAS	CO., INC.	
and s	worm to a	and the Notice is		011	ad II OIL		1		
signe	d on beha	alf of the Well O	perator	Ву	Kor	met I	has O.		
Ln my	County a	and State by		-	ts	Agent	0	7	- Arriva
hia		Greenlief	,	A	ddress	1297 N.		treet	
	20day of	July	, 19 84.			Glenvil1	Le, WV	26351	-
1-1Y	n l	on expires 9/16	, 19 90.	T	elephon	e (304) 46	52-5347		
	11. Zym	(kapman					,		
	tary Publ ate of		County,					09/29/20	023
30	are or	West Virgini	a						

#### INSTRUCTIONS TO APPLICANT

#### CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
  - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
  - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
  - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
  - 7) See Code § § 22-4-11(d, e).

#### CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8 from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

## INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that-

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty Book Page
Scott Zinn	Waco Oil & Gas Co., Inc.	1/8 343 267
Mary Alice Lockard	Waco Oil & Gas Co., Inc.	1/8 343 267

#### SURFACE OWNER'S COPY



1)	Date:		ily 20, 1	9 84
2)	Operator's Well No.	Waco	#313-Zinn	D
3)	API Well No.	47	021	
		State	County	Dormit

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

<ul> <li>4) WELL TYPE</li> <li>5) LOCATION</li> <li>6) WELL OPE Address</li> <li>8) OIL &amp; GAS</li> </ul>	B (II N: Elev Diss	"Gas", I vation: trict: Waco 1297 Clan	Production 12 Tr 011 & N. Le ville, BE NOTIF	17' oy Gas wis	Co., Street 2635	1	7) DESIGNATE Address D DRILLING C	Quadrangle:	Auburn 7.5' th Greenlief Lewis Street tile, WV 26351
NameAddress		Rout Sand		ox 5	2527	74	NameAddress	1297 1 Glenv:	Service, Inc.  N. Lewis Street  Ille, WV 2532
<ul><li>10) PROPOSE</li><li>11) GEOLOGI</li></ul>			Other pl	nysical		deeper/ Perfora well (specify)	te new formation		DECEIVE
12) Estima 13) Appro 14) Appro 15) CASING A	ted depth o ximate trata ximate coal	f complete a depths: seam dep	ed well, _ Fresh, _ ths:		5800 220 nonn	feet salt,	none	leet.	OIN& GAS DIVISION
CASING OR TUBING TYPE	Size	SPEC Grade	Weight per ft.	New	Used	FOOTAGE IN	TERVALS  Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water									Sizes
Coal	8 5/8		20	X		500'	5001	100 sacks	Sizes
Production	4 1/2		10.5	X			58001	640 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

#### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership	p, etc.)	(For execution by natural persons)	
NAME:		- Scott Zimn	Date: 7-23-81
Ву		(Signature)	
Its	Date	(Signature)	Date:

# INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



IV-9 Revised 11-81

Reed (WFSCD)
JUN 8 1984

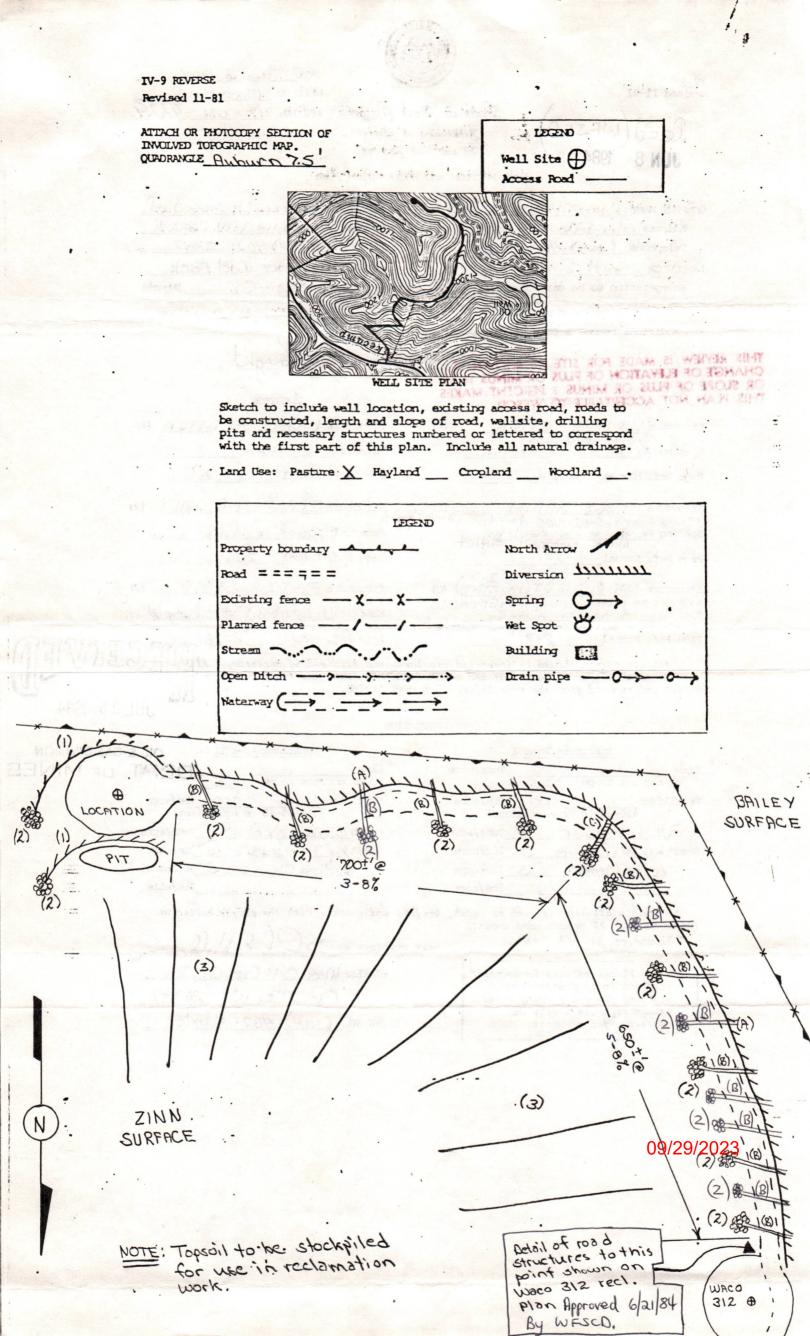
WILL NO. Waro - 313

Strie of West Birginia API NO. 47 - 021 -4229

Bepartment of Mines
Oll und Cas Ebrislon

CONSTRUCTION AND RECLAMATION PLAN

	COMPANY NAME (NOCO O') 1 Gas Co., In.	DESIGNATED MENT Kenneth Greenlief
	Mires Glenville, WV 26351	Address Glenville, LOV 26351
	Telephone (304) 462- 5347	Telephone (304) 462-5347
	LANDONIER Scott Zinn	son are. District West Fork
:		
	Revegetation to be carried out by Main	
	This plan has been reviewed by	t for son. All corrections
- Commission	and additions become a part of this plan:	6/22/84
Lite	OF THE STATE OF TH	0911
HAN:	REVIEW IS MADE FOR SITE AS SHOWN, A GE OF ELEVATION OF PLUS OR MINUS 10 FT.	(SOD Agent)
IC SI	OFE OF PLUS OR MINITE & DEDCEMENT MANGE	(SD MAIL)
HIS	PLAN NOT ACCEPTABLES TOWN FSCD.	LOCATION
	Structure CRAINAGE DITCH W	Structure DIVERSION WITCH (1)
	(Inside rood cuts)	
	spacing As shown on exelch.	Material Earthen
	Page Ref. Mermal 2-12	Page Ref. Mermal 2-/2
	Structure CROSS BRAIN (B)	STUDING SEDIMENT BARRIER (2)
	5%-135'Apart, 5-8%-105' Apart, 3-8%-105'a	Material Brush & Stone
	with riprapped outlet	
	Page Ref. Maruel 2-1	Page Rof. Menual 2-16
	Structure (DAS) CULVERT (18" min.) (C)	Structure FILTER STRIP (3)
	is shown on plan (according to O16 manual)	
	with riprapped outlet	Material Undisturbed Natural Vegetation
	Page Ref. Menual 2-7	Per Ref. Mercel 2-16
	. All structures should be inspected regular	1)D)S(C)E(V)F()
	commercial timber is to be out and stacked	and all brush and small timber to be
	cut and removed from the site before dirt w	ork begins.
		JUL 2 5 1984
	REVEREN	TION
	Trestment Area I	Treatment Area II OIL & GAS DIVISION
	* Lime Tons/acre	*Lime Defret OF MINE
	or correct to pil 6,5	or correct to pli . 6,5
7367	Fertilizer 500 lbs/acre	Fertilizer 500 lbs/acre
	(10-20-20 or equivalent)	(10-20-20 or equivalent)
	Mulch H. Sord- paper 3/4 Tons/acre	Mulch H. Sand - payer 3/4 Tons/erre
	seed ky 31- Facue 35 lbc/acre	seed ky 31- Fescue 35 1bs/2000
	Ladino Clover 5 123/000	Ladino Clover 5. 172/2008
	lbs/acre	lbs/acre
	*Inoculate all legumes such as vetch, trefo	il and clovers with the proper bacterium.
	Inoculate with 3X recommended amount.	00000
	According to PH test. PLAN	PREPARED BY SSI E. Nollan
	ROTES: Please request landowners' cooperation to protect new	ADDRESS WARO OILY GOS CO., Irc.
	seedling for one growing season.	Glenville, WV 26351
	Attach separate sheets as necessary for comments.	PHONE NO. (304) 462-5347
		1000 100 1000 1007/



IV-35 (Rev 8-81)

FEB 2 0 1985

State of West Wirginia

Department of Alines

	02/18/8	5		
Operat	or's		1	
Well N	o. 313	Zinn	"D"	
Farm	Zin	n		
APT No	47 -	021	_	4229

OIL & GAS DIVISION DEPT. OF MINES , Wil und Gas Bivision

WELL OPERATOR'S REPORT

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

OCATION: Elevation: 1217 Watershed	Pikecamp 1	Run		1 5
District: Troy County Gilmo	er	Quadrang1	e Auburn	7.5
		!		
COMPANY WACO OIL & GAS CO., INC.				Cement
ADDRESS 1297 N. Lewis St., Glenville, WV 26351	&	Used in	Left	fill up
DESIGNATED AGENT Kenneth Greenlief	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 1297 N. Lewis St., Glenville, WV 26351	Size 20-16			
SURFACE OWNER Scott Zinn	Cond.			
DDRESS Cox's Mills, W	13-10"			
INERAL RIGHIS OWNER Scott Zinn	9 5/8			200 1
DDRESS Cox's Mills, WV	8 5/8	1022	1022	290 sks to surfa
IL AND GAS INSPECIOR FOR THIS WORK	7.		1.4%	
Deo Mace ADDRESS Sandridge, WV	5 1/2			
ERMIT ISSUED 7/30/84	4 1/2		3520	300 sks
RILLING COMMENCED 11/05/84	3			i
RILLING COMPLETED 11/11/84	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON ONTINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED N	Liners used			
FOLOGICAL TARGET FORMATION ELL		Dept	h 5400	feet
Depth of completed well 5822 feet R	otary x	_/ Cable	Tools	
Water strata depth: Fresh 50,105 feet;	Salt 1912	feet		
Coal seam depths: None			d in the	area? No_
PEN FLOW DATA				· .
Producing formation Speechly				atment feet
	Oil: Init			Bb1/d
Final open flow 249 Mcf/d		al open fl		
Time of open flow between initia	al and fir	nal tests_	_4hou	irs ·
Static rock pressure 940 psig(surface	measureme	ent) after	48 hour	2972023 <sup>n</sup>
(If applicable due to multiple completion-	-)			
Second producing formation	Pay	zone dept	h	feet
	Oil: Init	ial open	flow	Bbl/d
Gas: Initial open flow Mcf/d				
Gas: Initial open flow Mcf/d (Final open flow Mcf/d (		al open fl	OW	Bb1/d

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

Speechly - 3308 to 3432 - 500 Gal 15% Hcl, (10,000# 80-100) (20,000# 20-40)



#### WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of al and salt water, coal, oil	l fresh and gas
Red Rock, Sand, Shale	0	740	½" stream @ 50'	**************************************
Sand, Shale	740	1977	1½" stream @ 105'	
Little Lime	1977	2002	Hole damp @ 1912	
Shale	2002	2008		•
Big LIme	2008	2154		
Big Injun	2154	2190		
Sand, Shale	2190	3310		
Speechly Section	3310	3960		,.
Balltown Section	3960	4450		
Riley Seciton	4.450	4830		<b></b> .
Benson	4830	4840		
Shale	4840	5082		
Alexander	5082	5154		
Sand, Shale	5154	5822	TD	
bana, prate				
		Arrange and		
				and Sack
				•
		Start Chil		•

(Attach separate sheets as necessary)

WACO OIL & GAS CO., INC.
Well Operator

By: Kannot Mes-Aut Kenneth Greenlief

Date: 02/18/85 09/29/20

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 that, encountered in the drilling of a well."

#### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

## INSPECTOR'S WELL REPORT DEPT. OF MINES

No. 21-4229		x magazin engle zakili	Oil o	r Gas Well	ă.,
ny WACO	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKER	s
S	Size		1 (1 to 1 to 1 to 1 to 2 to 1 to 1 to 1 to		9.
ZINN	16	Sagar Colored		Kind of Packer	64 D
3/3	13				
TROY County GiL	81/4		, 10 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	Size of	
commenced	65%			Depth set	
mpletedTotal depth	5 3/16				2 X.
and the same of th	3			Perf. top	
Depth of shot	2			Perf. bottom	
/10ths Water inInch	Liners Used		*	Pert. top	
ubing/10ths Merc. inInch				Perf. bottom	-
Cu. Ft.	CASING CEMEN			No. FT.	Dat
bbls., 1st 24 hrs.	COAL WAS ENC	OUNTERED	АТТ	FEETI	NCHE
50 feet 7 105 feet	FEET_	INCHE	. Irania and Ma	FEETI	
26 feet feet	FEET_		s		NCHE
MORRIS 8		-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7770 41117					
22' of 85/8" casing	, 290 5h	s Comen	Y. D.	usell 1	<b>ハ</b> フ
Backe off 5 /2 HPS.			100	-500	

11.7.84

Wis Mal 29/2023

Accordance to the contract

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

## INSPECTOR'S PLUGGING REPORT

COMPANY	3°. 1			ADDRESS						
ARMCOUNTY										
Filling Material Us	red						The second of th			
Liner	Loc	ation	n Amount Packer			where he was a restrict to the second of				
PLUGS		ND DEPTH PLACED		Packer	Location	-				
CEMENT-THICKN	-	WOOD-SIZE	LEAD	BRIDGES		NG AND T				
			LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST			
						12 m 12 m 12 m				
	100 410 4	*				the s				
		e was a laster			, , , , , , , , , , , , , , , , , , , ,	-	Constant been to			
	45 84	- Care				1				
	3-1-1-1									
						n g wager and a	1			
· · · · · · · · · · · · · · · · · · ·		and the second second	A STATE OF THE STA							
	13. 24.									
		7-15-1								
rillers' Names			Lance II.			No. of the second				
emarks:							s			
		200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
DATE	1	nereby certify I vi	sited the above	e well on this date.						

IV-20 Obverse 1-84

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



JAN 8 1986

Company: WACD DIL & GAS

Farm: SCOTT ZINN

Permit No. 47- 21-4229 (7-3084)

Well: WACO 313 ZINN D Counts:GILNER

Rule	Description	In Compli Yes	i ance No
23.06	Notification prior to starting work		
25.04	Prepred before drilling to prevent waste		
25,03	High pressure drilling		
16.01	Required permits at wellsite		
15,03	Adequate Fresh Water Casins		-45 155 155 -55 -55 155 155 155 555
15.02	Adequate Coal Casins	ma com mas apa mor me - 54- 64- 64-	60- 04/ FEI 507 NO: 63- 507 606 50A
15.01	Adequate Production Casins		
15.04	Adequate Cement Strength		54-50-502 552 503 544 544 500 745
15.05	Cement Type		
23.02	Maintained Access Roads	Mis con 400 the 100 too fee too 100	0 00-00-00-00-00-00-00-00-00-00-00-00-00
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
	Requirements for Production & Gathering Pipelines		
	Well Records on Site		
	Well Records Filed		
	Identification Markings		
,,,,,	AUCHULI ACOULOH HOTEKHILL		- 00 - 90 - 1.0 - 100 -
I HAVI	E INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND		
		NED OW	
	DAT	E	4.86
with (	well record was received and reclamation requirements that the shove well was for the life of the well.		under bond
		Adminis	strator
		January	16, 1986
		Da	ste
		The same of the sa	

STATE OF WEST VIRGINIA DEPARTMENT OF HINES OFFICE OF OIL AND GAS CHARLESTON 25305 FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT



3891 3 1410

BAS	1	.11	0	OOA	14 :	uns	i m	03
		- 14	MY	V T	107	19 1	155.77	2

Permit No. 47- 21-4229 Well: WACO 313 ZINN D CountwiGlicher

ance No	In Compli	Parantalian	Rule	
un	521	Description	9107	
100 m3 100 m3 101 101 101 101 101 101 101 101 101 10	007 - 107 - 107 - 108 -	Motification prior to starting work	23.06	
and the service are the special and	27 (28 32 (28 12 arrive sec sec	Prepred before drilling to prevent waste	25.04	
No. 607 12: 18: 25: 15: 15: 15: 15: 15: 15: 15: 15: 15: 1	11 (0.00 to 0.00 to 0.00	High pressure drilling		
del en riller en en als ace en es	NATIONAL OR AS AS MAD MAD AND AND	Required permits at wellsite	10.01	
MP 100 57 57 57 58 50 50 50 50	1 - 10 10 10 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Adequate Fresh Water Casins	15.03	
\$60 FOR \$18 40 400 41 42 40 40	or the second will the tile size and	Adequate Coal Casins	15.02	
MR 400 (4) (4) 40 (4) 40 (4) 40 (4)	ent has not not explicit and any ac-	Adequate Production Casing	15.01	
61.8 605 517 415 615 5 <b>15</b> 417 42 45	one and the loss of a real sale and the	Adequate Cement Strength	15.04	
ARR 500 10 100 00 11 11 10 10 10	\$1-10-41 to 10-10-10-10-10-10-10-10-10-10-10-10-10-1	Cement Tupe	15.05	
***************************************	*** *** *** *** *** *** *** ***	Maintained Access Roads	23.02	
200 NO NO \$6. NO NO NO NO NO	481 SEC 200 SEC 107 SEC 315 PRO-885	Necessary Equipment to Prevent Waste	25.01	
\$18 -0.0 de de 105 AF 48 45 EF		Reclaimed Drilling Pits	23,04	
AND STOCK AND AND AND AND AND AND AND	MET TO SECURE HE BY HE HE AND	No Surface or Underground Follution	23,05	
Were the day the top our one of the		Recuirements for Production & Gatherins Pirelines	VO.FC	
	43 (0.45 to 0.45 to 0.45 to 0.45	Well Records on Site	101	
1814 010 W W 4100 W		Well Records Filed	16.02	
10° 100 10 100 100 100 100 100 100 100 1	600 00 00 00 00 00 00	Identification Markinss	7.03	
RELEASED:	THAT IT BE	INSPECTED THE ABOVE CAPTIONED WELL AND RECONNEND	AVAH I	
00 00 co 60 co 60 co 60 co 60 co 60 co		мехе		
ne activities de la calcala calca	ent an an at us on an estapa de es	3TAQ		
	ll remain u	ell record was received and reclamation requirementaries 22; Article 4: Section 2: the above well wisher for the life of the well.	aith C	

ndministrator

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