

1)	Date: Ma	arch 8	3		- 34.95	, 19_84
2)	Operator's Well No.	Zinn	#5	A		DRM IV 20
3)	API Well No.	47	_	021	-	4179
-		State		Cour	itv	Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION DEPT. OF MAIN EASION FOR A WELL WORK PERMIT

							Brake Holl		_/ ShallowX/)
5) LOCATION						County:G	ilmer	Quadrangle:	Auburn 7.5
6) WELL OPE) DESIGNATED	AGENT Kennet	h Greenlief
							Address	1297 N	
Address					26351		1 Iddi Coo		lle, WV 26351
8) OIL & GAS					20331) DRILLING CO		
Name D									1 Service, Inc.
Address							Address		ewis St.
Address					5274			Glenville.	WV 26351
0) PROPOSEI							/ Redrill	/ Stimulate	X /
0) PROPOSEI) WELL W	VOKK:					te new formation		
1) GEOLOGIC	TAL TARC	ET EOD				en (opeen)			
12) Estima	ted denth of	fcomplete	ed well	535	0	feet			
12) Estima	imate trata	denther	Fresh	181		feet; salt,	None	feet.	
13) Approx	imate coal	seem den	the		None	Is coa	l being mined in the	e area? Yes	/ NoX/
5) CASING A									
	IND TOBII		IFICATION	•	11	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS
CASING OR TUBING TYPE	1		Weight	1	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
	Size	Grade	per ft.	New	Used	For drining	Dett in wen		Kinds
Conductor					100				
Fresh water		9-3-					447 5.45		Sizes
Coal	8 5/8	ERW	20	X		600	600	160 sacks C	TS Neat No Additiv
Intermediate		J-55	CONTRACTOR VIOLENCE	X			5350	510 sacks	Depths set
Production	4 1/4	. 5-55	10.5	Λ	7	LIZO BELL 95	MRO		is by rule 15.0
<u>Fubing</u>		-					7		Perforations:
Liners				a. A.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	iser may more d	in its to soften	distance recent all	Top Bottom
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		100		AP RES	0	FFICE USE C	ONLY		
					D	RILLING PE	RMIT		
	17.0	01 /1	70					May 8,	19 84
Permit number_	4/-0	21-41	19				A		telling of the drilling
This permit cove	ering the w	ell operate	or and we	ll locati	on shown b	elow is evidence (of permission grant	iven to the District O	nce with the pertinent legal re- il and Gas Inspector, (Refer to
quirements subje	ect to the co	onditions	contained	tions an	d pits for an	v permitted work	In addition, the v	vell operator or his con	ntractor shall notify the proper
district oil and g	as inspecto	r 24 hour	s before a	actual p	ermitted wor	rk has commence	d.)		231120009 11110000000000000000000000000000
								to any modifications	and conditions specified on the
everse hereof.									
Permit expires	May	8, 19	86			unless well	work is commence	d prior to that date and	d prosecuted with due diligence.
									THER INSPECTIONS
			Plat:	Casi	na F	Fee			
Daniel Control	A								
Bond:	Agen	1 3	riat.	100	11	(1)			* Thospall
Bond:	Agen	r	nu	m	11 10	51	-	01,1	Regents





OL & GAS BIVISION STATE OF WEST VIRGINIA

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oil and gas inspector 24 hours before actual permitted work has commenced.) mutted work is as described in the Notice and, Application, pls., and reclamation plan, subject to any modifications and baseful and hereof. Lav S., 1926 Replies Castne Fee	definitions and on the	og an latter notation.	reverse percol		contained her		Harring utringer
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SURFACE OWNER'S COPY



1)	Date: Ma	rch	3			_, 19	84
2)	Operator's Well No.	Zinn	#5A				
3)	API Well No.	47	900	021	914		
,		State		Coun	tur		Dormit

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

4) WELLT	YPE: A Oi					Undergroup	nd storage	/ Deen	_/ Shallow/)
6) LOCATI		vation:	1162			Watershed:	Brake Hollo)W	
5) LOCATI		trict:	Troy			County:	Gilmer	Ouadrangle:	Auburn 7.5
6) WELLO		STATE OF THE PERSON NAMED IN COLUMN	il a G	as C	o., Inc.		7) DESIGNATED	AGENT Kennet	h Greenlief
Addre		1297 N	. Lewi	s St	•		Address		. Lewis St.
Addic		Glenvi	lle, W	V	26351			Glenvi	11e, WV 26351
8) OIL & G	AS INSPECT		BE NOTIF	FIED			9) DRILLING CO	NTRACTOR:	1 Service, Inc.
Addre	Di	E. 1,	Box 5				Address	1297 N. Le	
	St	andrid	ge, WV	2	5274			Glenville,	WV 26351
10) PROPOS	ED WELL V	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	X
10, 1110101			Plug of	f old f	ormation	/ Per	forate new formation_		
			Other p	hysical	change in w	ell (specify)_			
11) GEOLOG	GICAL TAR	GET FOR	MATION	E	LK				
12) Estin	nated depth o	of complete	ed well,	535	U	fe	eet		
13) App	roximate trata	a depths:	Fresh, _	101	Mana		alt, None	feet.	Y
14) App	roximate coal	seam dep	ths:		None	Is	coal being mined in the	area? Yes	/ No/
15) CASING	AND TUBI	NG PROC	GRAM						
CASING OR	1 .	SPEC	IFICATIONS Weight			FOOTAG	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
TUBING TYPE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor									Kinds
Fresh water									
Coal			8.0	males a		400	400	140 1 00	Sizes
Intermediate	8 3/6	ERM	20	X		600	600	160 sacks C	S Neat No Additive
Production	4 1/2	J-55	10.5	X			5350	510 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom
Manager Committee of the Committee of th									

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, etc.)	(For execution by natural persons)
NAME:	— Sleft Zinn Date: 4-1/-84
Ву	- Man (Signature) Loshard Date: 4/17/8 /
ItsDate	(Signature)

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.

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-lb and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-l2a, and (v) if applicable, the consent required by Code § 22-4-8a 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 Mary Alice Lockard	Waco Oll & Gas Co., Inc. 170	335 - 503 335 - 503

FORM IV-2(A) Obverse [8-83]

State of West Virginia

1) Date: March 8

,1984

2) Operator's

Well No. Zinn #5A

3) API Well No. 47 - 021 State County Permit

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

	NOTICE OF APPLICATION	FOR A WELL WORK PERMIT
4) SURFACE OWN	ER(S) OF RECORD TO BE SERVED	and the state of t
1'1	Cott Zinn	5(i) COAL OPERATOR None Address
Address	Cox's Mills, WV 26342	
	2034Z	5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
(11) Name Ma	ary Alice Lockard	Name None
Address_	Cox's Mills, WV 26342	Address
(iii) Name		
Address		Name None
		Address
		5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
		Name None
		Address
	TO THE PERSON(S) NAMED ABOVE: You should	have received this Form and the following documents:
	to be plugged think	entite on Form IV-2(B) (or Form IV-4 if the
	and describes the well and its lo	Permit on Form IV-2(B) (or Form IV-4 if the well is parties involved in the drilling or other work, exation and, if applicable, the proposed casing and
	(2) The plat (surround)	applicable, the proposed casing and
	(2) The plat (surveyor's map) showing (3) The Construction and Reclamation 1	the well location on Form IV-6; and Plan on Form IV-9)unless the well work is only to plan for erosion and sediment are two is only to
	reclamation for the site and access	Plan on Form IV-9)unless the well work is only to plan for erosion and sediment control and for solutions.
	THE PEACON VOI	
	(FORM IV-2(B) OR FORM 4, DESIGNATED FOR VO.	IS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION J. HOWEVER, YOU ARE NOT REQUIRED TO THE APPLICATION
		TO TAKE ANY
	Take notice that under Chapter 22 of t	the West Virginia Code, the undersigned well op-
	for a Well Work Permit with the Administrat	the West Virginia Code, the undersigned well op- lotice and Application and accompanying documents for of the Office of Oil and Gas, West Virginia
	and depicted on attached Form N. 6	cor of the Office of Oil and Gas, West Virginia at the location described on attached Application of this Notice, the Application the all
	Construction and Reclamation Plan have been	at the location described on attached Application of this Notice, the Application, the plat, and the publication in certain circumstances.
	before the day of mailing or delivery to the	mailed by registered or certified mail or delivered publication in certain circumstances) on or
	6) EXTRACTION RIGHTS	Application and accompanying documents for of the Office of Oil and Gas, West Virginia at the location described on attached Application of this Notice, the Application, the plat, and he mailed by registered or certified mail or delivered publication in certain circumstances) on or each each mail or delivered at the oil or gas based upon a lease or leases for flat well royalty or any similar provision r gas in place which is not inherently related produced or marketed?
	Check and provide one of the following	
	Included is the lease or leases or oth	ner continuing contract on any
	The requirement of Code 22-4-1-(c) (1)	gas.
1	7) ROYALTY PROVISIONS	disough (4). (See reverse side for specifical O
	Is the right to extract, produce or market	t the oil or gas based
	for compensation to the owner of the oil or	for flat well royalty or any similar provision
	If the answer above is No, nothing you may use Affidavit Form IV-60.	g additional is needed. If the answer is Yes,
_	the Allidavit Form IV-60.	Is needed. If the answer is Yes,
	See the reverse side for line item in	structions, and for instructions concerning
	Tall.	structions, and for instructions concerning Application, plat, and Construction and
The truth of th	le information on the	4
MULICE and Appl	lcation is verified	WEIL
and sworn to an	d the Notice is	OPERATOR Waco Oil and Gas Company, Inc.
signed on behal	f of the Well Onovater	
an my country an	d State by	By Kenneth Greenlief Konned Dan Suf
Kenneth Green	nlief	
this 8 day of	March , 19 84.	Address 1297 N. Lewis St.
Cullussion	n expires $9-16$, $19\frac{84}{90}$.	Telephone (304) 462-5347
M. Lin	n (harman	(304) 402-334/
Notary Public State of Wa	Gilmer County,	
plate of II.		The second secon

DEC. 9. 1983

State of West Hirginia up 1 10. 47 - 021 -

Bepartment of Mines Gil und Cas Zbrislen

CONSTRUCTION AND RECLAMATION PLAN

	사람이 나타지 않아 하지 않는데 사람들이 되었다면 하지만 얼마라고 있었다.
COMPANY NAME Waco Oil & Gas Co., IA	ESIGNED WENT Kenneth Greenlief
Mires Glenville, W 26351	Address Glenville, W 26351
Telephone 462-5347	Telephone 462-5347
LANDONER - Scott Zinn	son cors. District West Fork
Revegetation to be carried out by Main 1	ine Construction Co. (Agent)
This plan has been reviewed by We	
and additions become a part of this plans	12 21 83
TIEW IS MADE FOR SITE AS SHOWN. A	Date ! Smilt
E OF PLUS OR MINUS 10 FT.	(SOD Agent)
N NOT ACCEPTABLE TO WESCD.	
. ACCESS FOAD	LOCATION
Structure Cross Drains W.	structure_Diversion Ditch (1)
Specing . 45' APART & 60' APART	Material Earthen
Page Ref. Mermal 2-4	Page Ref. Mermal 2-12
SENCETURE DRAINAGE DITCH (B)	STUDIE SEDIMENT BARRIER (2)
Sparing EARTHEN - ALONG SIDE OF BOAD.	MATERIAL BRUSH & STONE
Page Ref. Marmal 2-12	Fogs Ref. Marsl 2-16
and the state of t	SENTER FILTER STRIP (3)
(at natural drains) (C)	
specing ACCORDING TO OIL EGAS MANUAL	M-to-del UNDISTURBED NATURAL VEGATION
Page Ref. Menual 2-8	Per Ref. Frankl 2-16
connercial timber is to be out and stocked at and removed from the site before dirt is structure sediment Barrier (D) Material Hay or straw bales fg. Ref. Man. 2-16. REVERENTE	ork begins.
Line Trustment Area I	*Lime Tons/Acre
or correct to pil 0.5	or correct to pt 6.5
Pertilizer 500 lbs/erre (10-20-20 or equivalent)	Fertilizer 500 lbs/acre (10-20-20 or equivalent)
much H. Seed-paper3/4 Tans/2000	milch H. Seed-paper3/47005/2008
Sect. Ky 31 Fescue 35 1be/	Seed Ky 31 Fescue35 1bs/are
Ladino Clover 5 1b3/200	Ladino Clover 5' 150/200
lbs/erre	lbs/are
*Inoculate all legumes such as vetch, tref Inoculate with 3X recommended crownt. *According to ph test	
*Inoculate all legumes such as vetch, tref Inoculate with 3X recommended amount. *According to ph test *ROTES: Please request landamers.	coil and clauses with the proper bacterium.
*Inoculate all legumes such as vetch, tref Inoculate with 3X recommended crownt. *According to ph test *ROTES: Please request landowners* cooperation to protect new	PREPARED BY Bully. ADDRESS Waco Oil & Gas Co., Inc.
*Inoculate all legumes such as vetch, tref Inoculate with 3X recommended crownt. *According to ph test *ROTES: Please request landowners* cooperation to protect new seedling for one growing season. Attach separate sheets as	PREPARED BY Bully. ADDRESS Waco Oil & Gas Co., Inc. Glenville, WV 26351
*Inoculate all legumes such as vetch, tref Inoculate with 3X recommended crownt. *According to ph test *ROTES: Please request landowners* cooperation to protect new seedling for one growing season.	PREPARED BI Bully. ADDRESS Waco Oil & Gas Co., Inc.



IV-9 REVERSE Revised 11-81 ATTACH OR PHOTOCOPY SECTION OF LEGEND INVOLVED TOPOGRAPHIC MAP. and a notation Well Site QUADRANGIE Auburn 7.5 ----Access Road WELL SITE PLAN SULIA SC Sketch to include well location, existing access road, roads to be constructed, length and slope of road, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage. · Land Use: Pasture X Hayland __ Cropland __ Woodland LEGEND North Arrow Property boundary Diversion 11111111 Road = == == = Spring Existing fence -Wet Spot Planned fence -Building Drain pipe ZINN SURFACE Λ. NOTE: Topsoil is to be stockfiled for use in reclamation work. Construction and Reclamation Plan Approved to this point by WESCO Road exists to on 6-23-83, and structures are this point. Shown in detail on the Zinn 4A well Plan. 900+'e 3-5% Location 298



Revised 11-81
Reed. (WFSCD) AUG 2

State of West Nieginia Bepertnent of Mines.
Oil und Ges Phiston

Note: This is a revised plan showing a road changer

α	MPANY NAME Wixo Oil 4 Gas Co., Inc. DESIGNATED NEXT Kennelly Colembie f
	Address Glenville, WV 26351 - mas Address Glenville, WV 26351
	Telephone (304) 462-5347 Telephone (304) 462-5347
T	NOWNER Scott Zinn soil and District West Fork
_	Revegetation to be carried out by Moin time Construction Co. (Agent)
	OW + Til
	0 :0 01
	(Dita)
SI	OF ELEVATION OF PLUS OR MINUS 10 FTC TO THE TOTAL TOTA
S	TEXTURE DRAINAGE DITCH (1) Structure Diversion Ditch (1)
	(Inside road cuts).
S	acing As shown on sketch: Material Earthen
P	ope Ref. Marrial 2-12 Page Ref. Marrial 2-12
	CDCC DDC.
	Tucture (ROSS DRAIN (B) Structure SFDIMENT BARRIER (2)
	socing 25 shown on statch. 12%-72 April Material Brush & Stone
F	age Ref. Marrial 2-16
-	
5	tructure Culvert (15"min. I.D.) (C) structure Filter Strip (3)
	socing According to OAG Manual Rat natural drains Material undisturbed nat. vegetation
	with riprapped outlet
P	Pege Ref. Marrial 2-16
	All structures should be inspected regularly and repaired if necessary. All
	commercial timber is to be out and stacked and all brush and small timber to be out and removed from the site before dirt work begins.
	Structure <u>Sediment Barrier</u> (1)
	Material tay or straw bales REVENTATION -
	fg. Ref. Man 2-16
t .	ime Tons/acre Lime Treatment Area II Tons/acre Q
1	or correct to pH 6.5 Tons/acre or correct to pH 6.5
I	ertilizer 500 lbs/acre Fertilizer 500 lbs/acre
	(10-20-20 or equivalent) (10-20-20 or equivalent) Q G
ŀ	ulch H. Sord-paper 3/4 Tons/acre Mulch H. Sord-paper 3/4 Tons/acre > 0
2	end ky 31 - Fexue 35 lbs/acre Send ky 31 - Fexue 35 lbs/acre 20 35
	Ladino Clover 5 lbs/acre Ladino Clover 5 lbs/acre 1
	lbs/acre lbs/acre
	*Inoculate all legiones such as vetch, trefoil and clovers with the proper bacterium.
2	noculate with 3X recommended amount.
	*According to PH Test.
1	NOTES: Please request landowners' ADDRESS MOOD O'H GOSCO. To
-	cooperation to protect new
	Attach separate sheets as
	necessary for comments. PHONE NO. (304) 462-5347
	1 1011 10. (304) 10.

The undersigned hereby acknowledges receipt of the aforesaid reclamation plan.

(REVERSE)

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

1st Stage: Alexander (5100 to 5164) - 500 Gal. 15% Hcl. (40,000 1b 20-40) 40 MCF N₂

2nd Stage: Benson, 3rd Riley (4702 to 4848) - 500 Gal. 15% Hcl.

(10,000 1b. 80-100), (30,000 1b 20-40) 40 MCF N₂

3rd Stage: 2nd Riley (4460 to 4484) - 500 Gal. 15% Hcl. (10,000 lb 80-100), (30,000 lb 20-40) 40 MCF $\rm N_2$

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of a and salt water, coal, oil	ll fresh and gas
Clay Sand, Shale Sand, Shale, Red Rock Sand, Shale Little Lime Shale Big Lime Big Injun, Sand, Shale Berea Sand, Shale Speechly Section Balltown Section Riley Section Benson Shale Alexander Shale, Sand	0 15 480 955 1950 1980 1994 2075 2128 2430 2462 3302 4030 4460 4840 4850 5096 5162	15 480 995 1950 1980 1994 2075 2128 2430 2462 3302 4030 4460 4840 4850 5096 5162 5687	1/2" Stream water @ 60' TD	PAREZ SALVE SA

(Attach separate sheets as necessary)

	oil and Ga	as Co., Inc	•	
By:	Kenneth	Greenlief	Kannell Treamling	
Date:	2-15-85			

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."

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IV-35 (Rev 8-81)



State of West Wirginia

Department of Mines Wil und Gas Bivision

Date	2-15-85	
Opera Well 1	or's lo. ^{5A}	
Farm	Zinn	
API N	0. 47 - 021 - 4179	

OIL & GAS DIVISION

DEPT. OF MINES

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1162 Water	shed Brake Ha	11ow		1
District: Troy Count	y Gilmer	_Quadrang1	e Auburn	7.5 .
	No. of the second		and the same	
COMPANY Waco Oil and Gas Co. Inc.				
ADDRESS Glenville, WV		-		Cement
DESIGNATED AGENT Kenneth Greenlief	Casing	Used in	Left	fill up
ADDRESS Glenville, WV		Drilling	in Well	Cu. ft.
	Size 20-16			1000
SURFACE OWNER Scott Zinn ADDRESS Cox's Mill, WV	Cond.			
	13-10"		1 1 1 1 1 1	
MINERAL RIGHIS OWNER Scott Zinn	9 5/8			
ADDRESS Cox's Mill, WV	8 5/8	841	841	to surfac
OIL AND GAS INSPECIOR FOR THIS WORK	7'		W4.	
Deo Mace ADDRESS Sandridge, WV	5 1/2			
PERMIT ISSUED 5-08-83 5+08-	4 1/2		5250	700 SKS
PRILLING COMMENCED 11-29-84	3		3230	700 585
RILLING COMPLETED 12-03-84				
F APPLICABLE: PLUGGING OF DRY HOLE ON ONFINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED N	Liners used			
EOLOGICAL TARGET FORMATION Benson		Danti		<i>-</i>
	foot Potent	Dept	h 5350	feet
Depth of completed well 5687			Tools	· · · · ·
Water strata depth: Fresh 60 Coal seam depths: None				
None None	Is coal l	being mined	in the	area? No
PEN FLOW DATA				
Producing formation Alexander, Ben	son, Riley Pay	zone depth	See trea	atment feet
Gas: Initial open flow M	of/d Oil: Init	ial open f	low	Bb1/d
Final open flow 984 M	cf/d Fina	l open flo	w Show	Bb1/d
Time of open flow between				
Static rock pressure 1450 psig(s	surface measureme	nt) after	48 hours	s shut in
(If applicable due to multiple comp	etion)		40 1001	J Diluc III
Second producing formation		zone depth	7.1	foot
Gas: Initial open flow Mc				feet
Final open flow Mc				Bb1/d
Time of open flow between	THURST SIM III	at tests	hour	S
Static rock pressure psig(su	race neasurenen	diter_	nours	snut in
		(Continue	מונפיר ווח	rsc side

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & S DIVISION
DEPT. OF MINES

Permit No. 21-417 9			Oil or	Gas Well	
Company Waco	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACE	ERS .
Address	Size				
arm 2 inn	16	No. of the second		Kind of Pac	ker
Vell No. 5A	13	Property of the second		_ Size of	
istrict Two County Gil.	81/4			Size of	3
rilling commenced 11.27.84	65/8			Depth set_	
rilling completedTotal depth	5 3/16	emotivates on the transfer of the second	2 10 10 10 10 10 10 10 10 10 10 10 10 10	Parf ton	
te shotDepth of shot	2			Perf. top Perf. botton	
itial open flow/10ths Water inInch	Liners Used			Perf. top	
pen flow after tubing/10ths Merc. in Inch				Perf. botton	1
Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
ock pressurelbshrs.	NAME OF SER	VICE COMPA	NY		
bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES
esh water 1/2" to 60 feet	FEET_	INCH	IES	FEET	INCHES
lt waterfeetfeet	FEET_	INCH	IES	FEET	INCHES
rillers' Names Marrio 8					
marks: 8/4/ of 8 3/8" cashing, o	250545	Cemat	, Dow	ell, 1	1.28-

11-29.84

Du Mace

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY					HI No	AN WAR	
COMPANY			ADDRESS				
FARM	CONTRACTOR OF THE STATE OF THE	DISTRICT	The state of the s	COUNTY	The second	1,200 to 120 to 120 to 1	
Filling Material Used					a design of the		
Liner Loc	cation	Amount	Packer	production of the production o	your or you do.		
PLUGS USED A	ND DEPTH PLACED		- acres	Location			
CEMENT-THICKNESS	WOOD-SIZE		BRIDGES	CASING AND TUBING			
		LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
Company of the Compan				11 3	e e gaza esta N	word by and me	
to describe						1	
				and the second second second second		akan di seri april	
AND A CONTRACT OF THE PARTY OF				H. S. Carrier	a ann to	sintest xV	
1		ox evan b en and b 2 to 5			-	1	
- ,					winds to the state of	para variation	
					5-2-5-PF-1-5-PF-1	a digrega, s	
white the control were the configuration of the time and the timester.		Section and the section of the secti			and the second	e vicitative i	
			- 3.4	A CONTRACTOR OF THE SECOND			
ATTENDED			A Proposition of the day.		2		
illers' Names			The second of th				
marks:				and the same	- CW1 - W 1		
The state of the s	e nacional de la caracteria mesa, Barro		en trata processor y el Processor				
			rell on this date.				

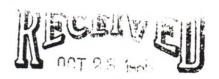
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines Gil and Gas Bivision Charleston 25305



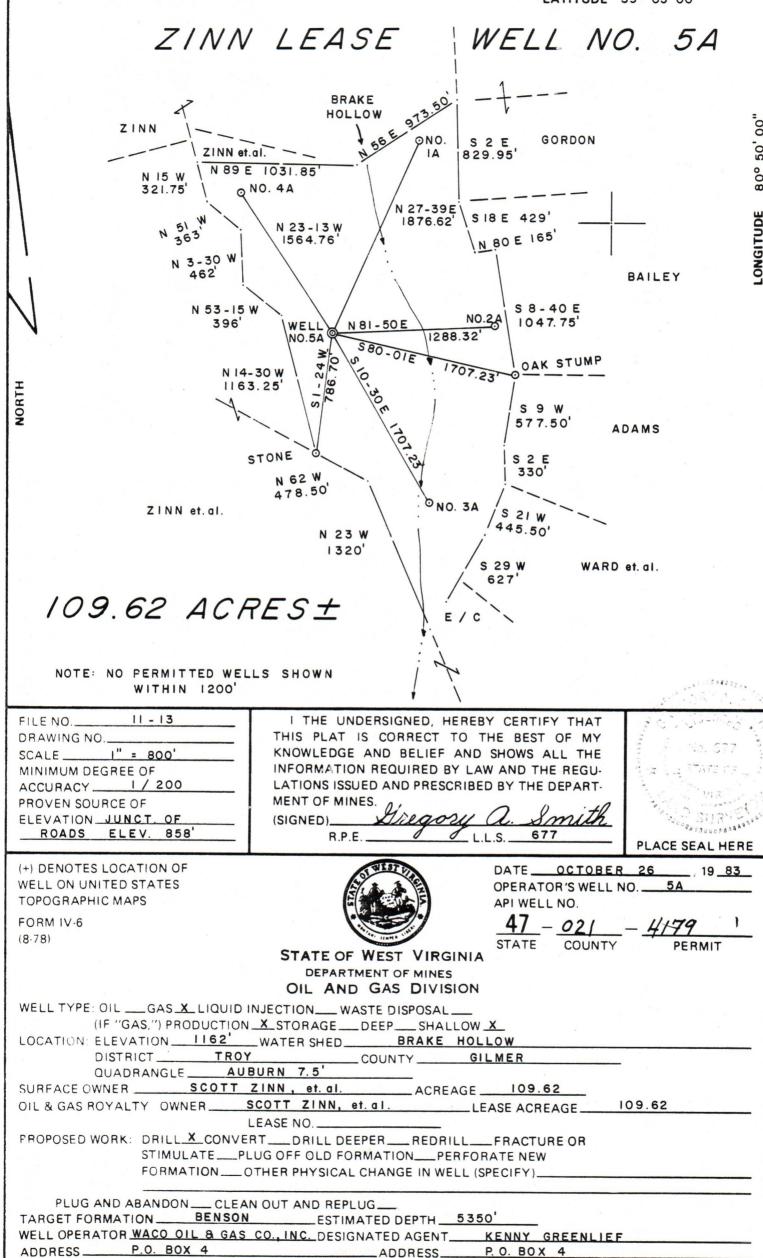


DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

DATE

	INSPECTORS COMPLIA February 26	NCE REPORT	
COMPANY		PERMIT NO	021-4179 (5-08-84)
1297	N. Lewis Street	FARM & WELL 1	NO Scott Zinn 5A
Glenv	ille, West Virginia 26351	DIST. & COUNT	TY Troy/Gilmer
DULE	DEGGDIDATON		IN COMPLIANCE
RULE	DESCRIPTION		YES NO
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Wast Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gathe Well Records on Site Well Records Filed Identification Markings	e waste	
I HAVE	INSPECTED THE ABOVE CAPTIONED WELL AN	D RECOMMEND THAT SIGNED	IT BE RELEASED:
		DATE	-16.85
with Cha	ll record was received and reclamation apter 22, Article 4, Section 2, the appear the life of the well.	n requirements ap bove well will re	emain under bond
		00	tober 29, 1985

LATITUDE 39° 05' 00"



GLENVILLE,

WV 26351

GLENVILLE, WV 26351