



1) Date: July 1, 19 83
 2) Operator's Well No. Zinn #3A
 3) API Well No. 47 - 021 - 4090
 State County Permit

DRILLING CONTRACTOR:
I.L.Morris Well Service
Glenville, WV 26351

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 884' Watershed: Brake Hollow
 District: Troy County: Gilmer Quadrangle: Auburn 7.5'
- 6) WELL OPERATOR Waco Oil & Gas Co., Inc.
 Address 1297 N. Lewis Street
Glenville, WV 26351
- 7) OIL & GAS ROYALTY OWNER Scott Zinn
 Address Cox's Mills, WV 26342
 Acreage 109.62
- 8) SURFACE OWNER Scott Zinn
 Address Cox's Mills, WV
 Acreage 109.62
- 9) FIELD SALE (IF MADE) TO:
 Address Columbia Gas Corp.
Charleston, WV 25314
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Deo Mace
 Address Route 1, Box 5
Sandridge, WV 25274
- 11) DESIGNATED AGENT Kenneth Greenlief
 Address 1297 N. Lewis Street
Glenville, WV 26351
- 12) COAL OPERATOR n/a
 Address _____
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name n/a
 Address _____
 Name n/a
 Address _____
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name n/a
 Address _____
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate X
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Benson-Elk
- 17) Estimated depth of completed well, 5100 feet
- 18) Approximate water strata depths: Fresh, 95 feet; salt, n/a feet.
- 19) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No X

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 DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	ERW	20	X		400'	400'	120 sacks	CP By Rule 15-05
Production	4 1/2	J-55	10.5	X			5100'	580 sacks	DE AS 204 by Rule 15-01
Tubing									Perforations:
Liners									Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: M Lynn Chapman
 My Commission Expires 16 September 1990

Signed: Kenneth Greenlief Kenneth Greenlief
 Its: Agent

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4090 Date September 6, 19 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires September 6, 1985 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>LO</u>	Plat: <u>AP</u>	Casing: <u>AP</u>	Fee: <u>882</u>
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T. L. ...
 Administrator, Office of Oil and Gas

INSTRUCTIONS TO APPLICANT

CONCERNING THE LEASE 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 § 22-4-1b(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 § 22-4-1k 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 § 22-4-1k(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 § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-3a 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 § § 22-4-1m, 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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
SCOTT ZINN	WACO OIL & GAS Co., Inc.	1/2	335-503
MARY ALICE LOCKARD	WACO OIL & GAS Co., Inc.	1/2	335-503

RECEIVED
 DEPT. OF OIL & GAS
 DEPT. OF MINES

1) Date: July 1, 1983
 2) Operator's Well No. Zinn #3A
 3) API Well No. 47 - 021 -
 State County Permit

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

- 4) SURFACE OWNER(S) OF RECORD TO BE SERVED
- (i) Name Scott Zinn
 Address Cox's Mills WV 26342
- (ii) Name Mary Alice Lockard
 Address Cox's Mills, WV 26342
- (iii) Name _____
 Address _____
- 5(i) COAL OPERATOR n/a
 Address _____
- 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name n/a
 Address _____
- Name n/a
 Address _____
- 5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
 Name n/a
 Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes (No)

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Kenneth Greenlief,
 this 1st day of July, 1983.
 My commission expires 9/16, 1990.

M. Lynn Chapman
 Notary Public, Gilmer County,
 State of West Virginia

WELL

OPERATOR Waco Oil & Gas Company, Inc.

By Kenneth Greenlief, Kenneth Greenlief
 Its Agent
 Address 1297 N. Lewis Street
Glenville, WV 26351
 Telephone (304) 462-5347

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OIL & GAS DIVISION
 DEPT. OF MINES

1) Date: July 1 19 83
 2) Operator's Well No. Zinn #3A
 3) API Well No. 47 -021

State County Permit

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A. Oil ___ / Gas X /
 B. (If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /
- 5) LOCATION: Elevation: 884' Watershed Brake Hollow
 District: Troy County: Gilmer Quadrangle: Auburn 7.5'
- 6) WELL OPERATOR Waco Oil & Gas Co., Inc.
 Address 1297 N. Lewis Street
 Glenville, WV 26351
- 7) DESIGNATED AGENT Kenneth Greenlief
 Address 1297 N. Lewis Street
 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Deo Mace
 Address Route 1, Box 5
 Sandridge, WV 25274
- 9) DRILLING CONTRACTOR:
 Name I. L. Morris Well Serv.
 Address 1297 N. Lewis Street
 Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill X / Drill Deeper ___ / Redrill ___ / Stimulate X /
 Plug off old formation ___ / Perforate new formation ___ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson-Elk
- 12) Estimated depth of completed well (or actual depth of existing well), 5100 feet
- 13) Approximate water strata depths: Fresh, 95 feet; salt, n/a feet.
- 14) Approximate coal seam depths: none Is coal being mined in the area? Yes ___ / NoX ___
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	ERW	20	X		400'	400'	120 sacks	
Production	4 1/2	J-55	10.5	X			5100'	580 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 (or less than 5 days if the Application is to plug a well), 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)

AME: _____

Scott Zinn Date: July 1, 1983
 (Signature)

By _____

Mary Alice Lockard Date: July 1, 1983
 (Signature)

Its _____ Date: _____

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OIL & GAS DIVISION
 DEPT. OF MINES

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.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

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, WV 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 personally served or mailed to you 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. (This time is changed to **FIVE (5) DAYS** from the filing date if the permit is only to plug a well.) 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 should 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.

DEPT. OF MINES
 OIL & GAS DIVISION

ATTACH OR PHOTOCOPY SECTION OF
 INVOLVED TOPOGRAPHIC MAP.
 QUADRANGLE AUBURN 7.5



LEGEND

Well Site ⊕

Access Road ———

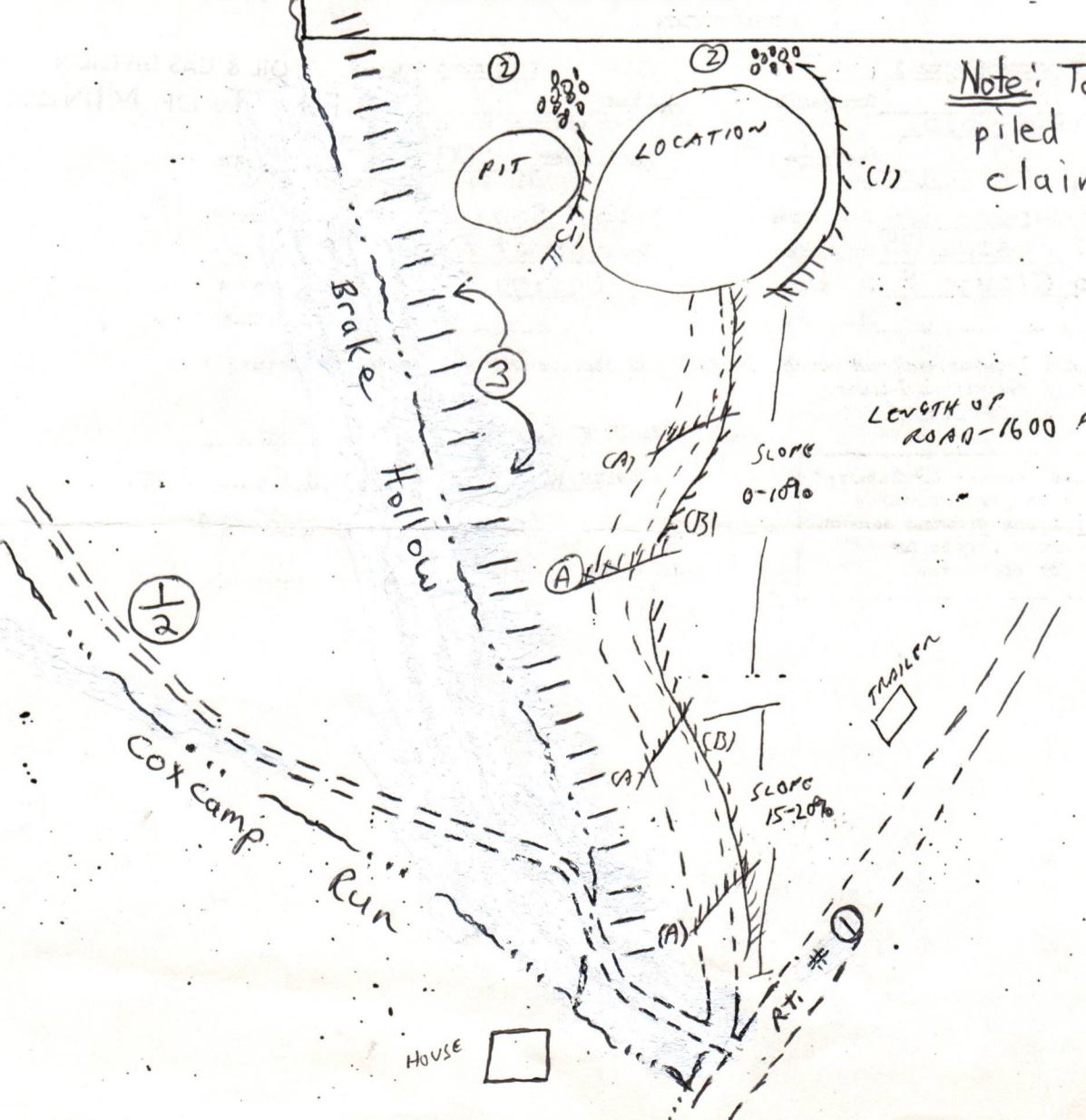
Sketch to include well location, existing access road, roads to be constructed, length and slope of road, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

Land Use: Pasture ___ Hayland ___ Cropland ___ Woodland X.

LEGEND

Property boundary ———	North Arrow ↗
Road = = = = =	Diversion // // // //
Existing fence — X — X —	Spring ⊙ →
Planned fence — / — / —	Wet Spot ⊙
Stream ~ ~ ~ ~ ~	Building []
Open Ditch —> —> —> —>	Drain pipe —○—> —○—>
Waterway (—> —> —> —>)	

Note: Topsoil will be stock piled for use in re-claiming.





IV-9
Revised 11-81

DATE June 6, 1983
WELL NO. ZINN #3A
API NO. 47 - 021 - 4090

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Waco Oil & Gas Co., / DESIGNATED AGENT Kenneth Greenlief
Address Glenville, WV 26351 Address Glenville, WV 26351
Telephone 462-5347 Telephone 462-5347

LANDOWNER SCOTT ZINN - COX'S MILL, WV SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by Main Line Construction Co. (Agent)

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 6/9/83 (Date)

462-8380
HE ALSO OWNS ALL OF ROYALTY

Kenneth E Knight
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Cross Drains (A)
Spacing 45 FT. APART & 80 FT. APART
Page Ref. Manual 2-4

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-12

Structure DRAINAGE DITCH (B)
(Inside road cuts)
Spacing EARTHEN - ALONG SIDE OF ROAD
Page Ref. Manual 2-12

Structure SEDIMENT BARRIER (2)
Material BRUSH & STOVE
Page Ref. Manual 2-16

Structure CULVERTS (15" MIN. I.D.) (C)
Spacing ACCORDING TO OIL & GAS MANUAL
Page Ref. Manual 2-8

Structure FILTER STRIP (3)
Material UNDISTURBED NATURAL VEGETATION
Page Ref. Manual 2-16

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

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REVEGETATION

Treatment Area I	
* Lime	Tons/acre
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u>	lbs/acre
(10-20-20 or equivalent)	
Mulch <u>H. Seed-paper 3/4</u>	Tons/acre
Seed* <u>Ky 31 Fescue 35</u>	lbs/acre
<u>Ladino Clover 5</u>	lbs/acre
	lbs/acre

Treatment Area II	
* Lime	Tons/acre
or correct to pH <u>6.5</u>	
Fertilizer <u>500</u>	lbs/acre
(10-20-20 or equivalent)	
Mulch <u>H. Seed-paper 3/4</u>	Tons/acre
Seed* <u>Ky 31 Fescue 35</u>	lbs/acre
<u>Ladino Clover 5</u>	lbs/acre
	lbs/acre

OIL & GAS DIVISION
DEPT. OF MINES

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium.
Inoculate with 3X recommended amount.
*According to pH test

PLAN PREPARED BY Kenneth Greenlief

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ADDRESS Waco Oil & Gas Co., Inc.
Glenville, WV 26351
PHONE NO. 462-5347

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia,
COUNTY OF Gilmer :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) x / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) x / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. Zinn #3A located in Troy District, Gilmer County, West Virginia, upon the person or organization named--

Scott Zinn and Mary Alice Lockard

--by delivering the same in Gilmer County, State of West Virginia on the 11th day of July, 1983 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him x / her x / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

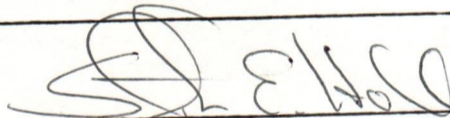
Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee / officer / director / attorney in fact / named _____.


(Signature of person executing service)

Taken, subscribed and sworn before me this 11th day of July, 1983.
My commission expires 16 September 1990.

M. Lynn Chapman
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

RECEIVED

JUL 12 1983

OIL & GAS DIVISION
DEPT. OF MINES

WACO



1297 N. LEWIS STREET • GLENVILLE, WV 26351

304/462-5347

I. L. MORRIS



May 16, 1984

Charlotte Milam
Office of Oil & Gas
1615 Washington St., East
Charleston, WV 25311-2192

Dear Charlotte,

Enclosed are the new plats for permit numbers 47-021-4054 and 47-021-4090 that you called about. These are the two wells we drilled with the locations switched. The new plat for the Zinn 1A now shows it where the well was actually drilled. If you need anything more, please let me know.

Sincerely,
Waco Oil & Gas Co., Inc.
Kenneth Greenlief
Kenneth Greenlief

copy to: Deo Mace

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MAY 17 1984
OIL & GAS DIVISION
DEPT. OF MINES

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

Lower Elk - 5373 to 5377 - 500 Gal. 11% Hcl, 20,000 lb. 20-40 59 MCF N₂
 Alexander - 4928 to 5038 - 500 Gal. 15% Hcl, 30,000 lb. 20-40 38 MCF N₂
 Benson, 3rd Riley - 4578 to 4724 - 500 Gal. 15% Hcl, 10,000 lb. 80-100, 20,000 lb. 20-40,
 38 MCF N₂
 2nd Riley - 4335 to 4341 - 500 Gal. 15% Hcl, 10,000 lb. 80-100, 20,000 lb. 20-40, 35 MCF
 Balltown - 3935 to 3946 - 500 Gal. 15% Hcl, 10,000 lb. 80-100, 20,000 lb. 20-40 22 MCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock, Sand, Shale			0	835	1/2" Fresh Water @ 105
Sand, Shale			835	1820	
Little Lime			1820	1846	
Sand, Shale			1846	1860	
Big Lime			1860	1950	
Big Injun			1950	1998	
Sand, Shale			1998	2300	
Berea			2300	2310	
Sand, Shale			2310	3180	
Speechly Section			3180	3940	
Balltown Section			3940	4320	
Riley Section			4320	4720	
Benson			4720	4730	
Sand, Shale			4730	4948	
Alexander			4948	5040	
Sand, Shale			5040	5372	
Lower Elk			5372	5402	
Shale			5402	5547 TD	

(Attach separate sheets as necessary)

WACO OIL & GAS CO.
Well Operator

By: Kenneth Greenlief Kenneth Greenlief

Date: December 12, 1984

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 coal, encountered in the drilling of a well."



IV-35
(Rev 8-81)

Date 12/12/84

State of West Virginia

Department of Mines
Oil and Gas Division

Operator's
Well No. #3A
Farm Zinn
API No. 47 - 021 - 4090

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 884 Watershed Brake Hollow
District: Troy County Gilmer Quadrangle Auburn 7.5

COMPANY WACO OIL & GAS CO., INC.
ADDRESS 1297 N. Lewis St., Glenville, WV26351
DESIGNATED AGENT Kenneth Greenleaf
ADDRESS 1297 N. Lewis St., Glenville, WV 26351
SURFACE OWNER Scott Zinn
ADDRESS Cox's Mills, WV
MINERAL RIGHTS OWNER Scott Zinn
ADDRESS Cox's Mills, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Sandridge, WV
PERMIT ISSUED 09/06/83
DRILLING COMMENCED 09/30/84
DRILLING COMPLETED 10/04/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	802	802	200 sks
7'			
5 1/2			
4 1/2		5450	630 sks
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Benson Depth 5100 feet

Depth of completed well 5547 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 105 feet; Salt None feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Elk, Alexander, Benson Pay zone depth see treatment feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1125 Mcf/d Final open flow Show Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1525 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Riley, Balltown Pay zone depth see treatment feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

GIL
4090

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

OCT 10 1984

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 21-4090

Oil or Gas Well _____
(KIND)

Company WACO

Address _____

Farm 2 inn

Well No. 3 A

District Troy County Silmer

Drilling commenced 9-30-84

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names J L Morris &

Remarks:

801' of 8 5/8" casing, 210 ft cement, Howell, 9-30-84

10-1-84

DATE

D W Mace

DISTRICT WELL INSPECTOR

2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Packer			Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR _____



RECEIVED
OCT 17 1985

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

DIVISION OF OIL & GAS
DEPT. OF ENERGY

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
January 30, 1985

COMPANY Waco Oil & Gas Co., Inc. PERMIT NO 021-4090 (9-06-83)
1297 N. Lewis Street FARM & WELL NO Scott Zinn #3A
Glenville, West Virginia 26351 DIST. & COUNTY Troy/Gilmer

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	_____	_____
25.04	Prepared before Drilling to Prevent Waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at Wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strenght	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
23.07	Requirements for Production & Gathering Pipelines	_____	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____	_____

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *D. W. Mince*
DATE 10-18-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

October 24, 1985
DATE

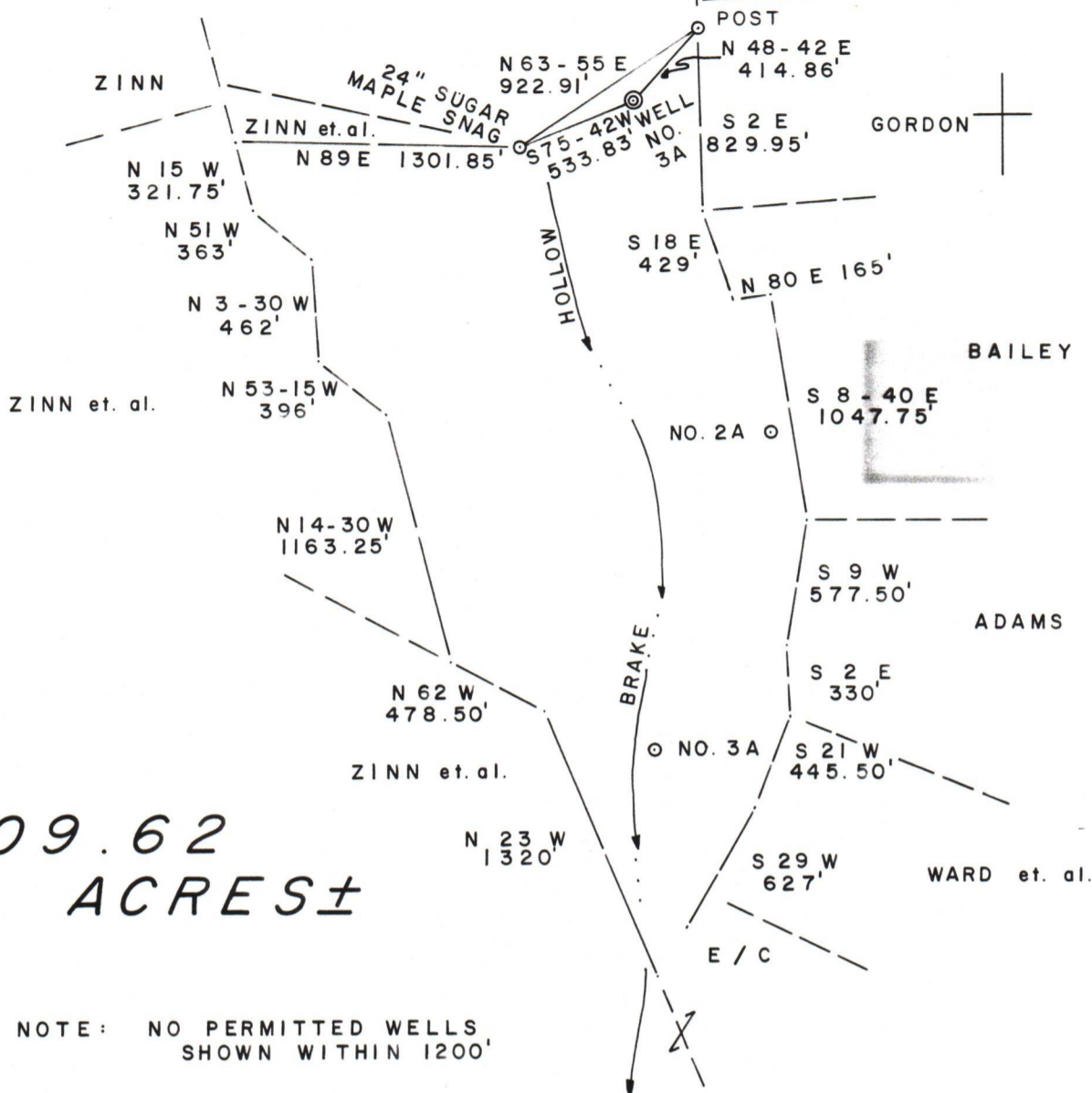
2,600'

LATITUDE 39° 05' 00"

ZINN LEASE WELL NO. 3A

LONGITUDE 80° 50' 00"

NORTH



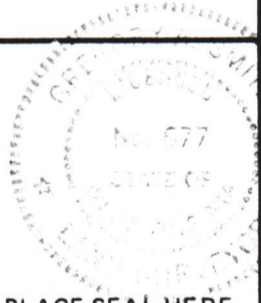
109.62 ACRES ±

NOTE: NO PERMITTED WELLS SHOWN WITHIN 1200'

FILE NO. 11-11
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS ELEV. 858'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Gregory A. Smith
 R.P.E. _____ L.L.S. 677



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JUNE 2, 19 83
 OPERATOR'S WELL NO. 3A
 API WELL NO. _____
47-021 - 4090-Rev.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1001' WATERSHED BRAKE HOLLOW
 DISTRICT TROY COUNTY GILMER
 QUADRANGLE AUBURN 7.5'
 SURFACE OWNER SCOTT ZINN et. al. ACREAGE 109.62
 OIL & GAS ROYALTY OWNER SCOTT ZINN et. al. LEASE ACREAGE 109.62
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5200'
 WELL OPERATOR WACO OIL & GAS, INC. DESIGNATED AGENT KENNY GREENLIEF
 ADDRESS P. O. BOX 4 ADDRESS P. O. BOX 4
GLENVILLE, WV 26351 GLENVILLE, WV 26351

Blumer 4090