



1) Date: August 15, 1984
 2) Operator's Well No. Waco #332-Zinn "I"
 3) API Well No. 47 - 021 - 4241
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 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: 1058' Watershed: Road Run LK 75G
 District: Troy County: Gilmer Quadrangle: Auburn 7.5'
- 6) WELL OPERATOR Waco Oil & Gas Co., Inc. 7) DESIGNATED AGENT Kenneth Greenlief
 Address 1297 N. Lewis Street Address 1297 N. Lewis Street
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace Name I. L. Morris Well Service, Inc.
 Address Route 1, Box 5 Address 1297 N. Lewis Street
Sandridge, WV 25274 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, Elk
 12) Estimated depth of completed well, 5350' feet
 13) Approximate trata depths: Fresh, 80' feet; salt, none feet.
 14) Approximate coal seam depths: none Is coal being mined in the area? Yes

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 OIL & GAS DIVISION
 DEPT. OF MINES

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	J	20	X		650'	650'	200 sks. (neat)	CTS
Production	4 1/2	J	10.5	X			5350'	600 sks.	Depths set
Tubing								or as reg.	by Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4241 Date September 18, 19 84

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires September 18, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

BLANKET Bond: <u>168</u>	Agent: <u>lp</u>	Plat: <u>MU</u>	Casing: <u>mt</u>	Fee: <u>1128</u>
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Margaret J. Hesse
 Administrator, Office of Oil and Gas

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: District: Putnam County: Putnam
 Elevation: 1030
 B (H) Gas, Production
 Underground storage
 Deep
 Shallow

2) WELL OPERATOR: 1037 W. Lewis Street, Putnam, WV 26024
 Address: 1037 W. Lewis Street, Putnam, WV 26024

3) DESIGNATED AGENT: 1037 W. Lewis Street, Putnam, WV 26024
 Address: 1037 W. Lewis Street, Putnam, WV 26024

4) DRILLING CONTRACTOR: I. J. Lewis Well Service, Inc., Putnam, WV 26024
 Name: I. J. Lewis Well Service, Inc., Putnam, WV 26024
 Address: 1037 W. Lewis Street, Putnam, WV 26024

5) OIL & GAS INSPECTOR TO BE NOTIFIED: I. J. Lewis Well Service, Inc., Putnam, WV 26024
 Name: I. J. Lewis Well Service, Inc., Putnam, WV 26024
 Address: 1037 W. Lewis Street, Putnam, WV 26024

6) PROPOSED WELL WORK: Drill, Deep, Redrill, Stimulate
 Plug off old formation, Produce new formation

7) GEOLOGICAL TARGET FORMATION: 1037 W. Lewis Street, Putnam, WV 26024
 Estimated depth of completed well, feet: 1030
 Approximate true depth, feet: 1030
 Approximate coal seam depths, feet: 1030
 Is coal being mined in the area? Yes

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 OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Specifications		Footage Intervals	Left in well	Cement	Packer
			Weight per ft.	Wall				
Conductor								
Fresh water								
Coal								
Intermediate	8 7/8	J	20		1030			
Production	4 1/2	J	10.5		1030			

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date	Date(s)
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Application received _____ Follow-up inspection(s) _____

Well work started _____

Completion of the drilling process _____

Well Record received _____

Reclamation completed _____

OTHER INSPECTIONS

Reason: _____

Reason: _____

Blanket Bond	Agent	Plan	Casing	Fee
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NOTE: Keep one copy of this permit posted at the drilling location.



1) Date: August 15, 1984
 2) Operator's Well No. Waco #332-Zinn "1"
 3) API Well No. 47 - 021 -
 State _____ County _____ Permit _____

**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 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: 1058' Watershed: Road Run
 District: Troy County: Gilmer Quadrangle: Auburn 7.5'
- 6) WELL OPERATOR: Waco Oil & Gas Co., Inc. 7) DESIGNATED AGENT: Kenneth Greenleaf
 Address: 1297 N. Lewis Street Address: 1297 N. Lewis Street
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name: Deo Mace Name: I. L. Morris Well Service, Inc.
 Address: Route 1, Box 3 Address: 1297 N. Lewis Street
Sandridge, WV 25274 Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, 81k
 12) Estimated depth of completed well, 5350' feet
 13) Approximate trata depths: Fresh, 80' feet; salt, none feet.
 14) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No _____

RECEIVED
 AUG 27 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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									Sizes
Coal									Depths set
Intermediate	<u>5/8</u>	<u>J</u>	<u>20</u>	<u>X</u>		<u>650'</u>	<u>650'</u>	<u>200 sks. (near) GTS</u>	Perforations:
Production	<u>1 1/2</u>	<u>J</u>	<u>10.5</u>	<u>X</u>			<u>5350'</u>	<u>600 sks.</u>	Top _____ Bottom _____
Tubing								<u>or as reg. by Rule 15.01</u>	
Liners									

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.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
Scott Zinn Date: 8-23-84
 (Signature)
 _____ Date: _____
 (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 § 22-4-1b(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(1) "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 § 22-4-8a 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 § 22-4-1m, 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 reverse 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	344/161
Mary Alice Lockard	Waco Oil & Gas Co., Inc.	1/8	344/161

2023/06/20

1) Date: August 15, 1984
2) Operator's Well No. Waco #332-Zinn "I"
3) API Well No. 47 - 021 - 4247
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

(1) Name Scott Zinn
Address Cox's Mills, WV 26342

(1) Name
Address

(1) Name
Address

(1) Name
Address

5(1) COAL OPERATOR n/a
Address

5(1) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name n/a
Address

5(1) 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 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 as the lease 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 contracts providing for flat well royalty or any similar provision 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 Greenleaf
this 15 day of August, 1984

My commission expires 9/16, 1990.

Notary Public, Gilmer County, West Virginia

W. Lynn Chapman

WELL OPERATOR

WACO OIL & GAS CO., INC.

By *Kenneth Greenleaf*

Agent

Address 1297 N. Lewis Street

Glenville, WV 26351

Telephone (304) 462-5347

DEPT. OF MINES
OIL & GAS DIVISION

AUG 27 1984

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IV-9
Revised 11-81

DATE July 17, 1984
WELL NO. WACO - 332
API NO. 47 - 021 - 4741

Rec'd. (WFSCD)
JUL 20 1984

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Waco Oil & Gas Co., Inc.
Address Glennville, WV 26351
Telephone (304) 462-5347
LANDOWNER Scott Zinn

DESIGNATED AGENT Kenneth Greenleaf
Address Glennville, WV 26351
Telephone (304) 462-5347
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: 8/6/84 (Date)

THIS REVIEW IS MADE FOR SITE AS SHOWN. A CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT. OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES THIS PLAN NOT ACCEPTABLE TO WFSCD.

Kenneth Knight
(SCD Agent)

ON SITE REVIEW
7/30/84

Structure DRAINAGE DITCH (A)
(Inside road cuts)
Spacing As shown on sketch
Page Ref. Manual 2-12

LOCATION
Structure DIVERSION DITCH (1)
Material Earthen
Page Ref. Manual 2-12

Structure CROSS DRAIN (B)
12% - 72' Apart, 15% - 60' Apart, 5% - 135' Apart.
Spacing as shown on sketch with rapped outlet
Page Ref. Manual 2-11

Structure SEDIMENT BARRIER (2)
Material Brush + stone
Page Ref. Manual 2-16

Structure Sediment Barrier (C)
Material Hay or Straw bales
Page Ref. Manual 2-16

Structure FILTER STRIP (3)
Material Undisturbed Nat. 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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AUG 27 1984

REVEGETATION

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

* Treatment Area II
Lime or correct to pH 6.5 Tons/acre
Fertilizer 500 lbs/acre (10-20-20 or equivalent)
Mulch H. Seed - paper 3/4 Tons/acre
Seed* Ky. 31 - Fescue 35 lbs/acre
Ladino Clover 5 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 S. S. Holl
ADDRESS Waco Oil & Gas Co., Inc.
Glennville, WV 26351
PHONE NO. (304) 462-5347

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

09/29/2023

RECEIVED

MAR 25 1985



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES State of West Virginia

Department of Mines
Oil and Gas Division

Date March 4, 1985
Operator's
Well No. 332
Farm Zinn
API No. 47 - 021 - 4241

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: 1058 Watershed Road Run
District: Troy County Gilmer Quadrangle Auburn 7.5'

COMPANY WACO OIL & GAS CO., INC.
ADDRESS 1297 N. Lewis St., Glenville, WV 26351
DESIGNATED AGENT Kenneth Greenleif
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 9/18/84
DRILLING COMMENCED 1/23/85
DRILLING COMPLETED 1/29/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

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	927	927	280 sks to surface
7'			
5 1/2			
4 1/2		5840	520 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5350 feet
Depth of completed well 5910 feet Rotary X / Cable Tools
Water strata depth: Fresh 130 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 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 920 Mcf/d Final open flow show Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1540 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)

61L
4241

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

Shale, Lower Elk - 5584 to 5780 - 500 Gal 15% Hcl, 944 MCF N₂

Elk, Alexander - 4970 to 5066 - 500 Gal 15% Hcl, 916 MCF N₂

Benson, 3rd Riley - 4627 to 4716 - 500 Gal 15% Hcl, 824 MCF N₂

Balltown, 2nd Riley - 3862 to 4321 - 500 Gal 15% Hcl, 954 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
Soil			0	3	
Sand, Shale, Redrock			3	850	½ stream water @ 30'
Sand, Shale			850	1822	
Little Lime			1822	1836	
Shale, Sand			1836	1882	
Big Lime			1882	1970	
Big Injun			1970	2014	
Sand, Shale			2014	3150	
Speechly Section			3150	3860	
Balltown Section			3860	4312	
Riley Section			4312	4710	
Benson			4710	4720	
Shale			4720	4968	
Alexander			4968	5006	
Shale			5006	5054	
Elk			5054	5083	
Shale			5083	5910	TD

(Attach separate sheets as necessary)

WACO OIL AND GAS COMPANY, INC.
Well Operator

By: Kenneth Greenlief, Kenneth Greenlief

Date: March 5, 1985

09/29/2023

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-20
Obverse
1-84

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

12-Dec-8

JAN 8 1986

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

Company: WACO OIL & GAS
Farm: ZINN, SCOTT

Well: #WACO-332

Permit No. 47- 21-4241 (9-18-84)
County: 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 Strength	_____	_____
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. L. Mace

DATE 1-4-86

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. L. B. B.
Administrator-Oil & Gas Division

January 16, 1986
Date

2270 9/18/84

11,690'

LATITUDE 39° 02' 30"

ZINN "I" LEASE

WELL NO. WACO-332

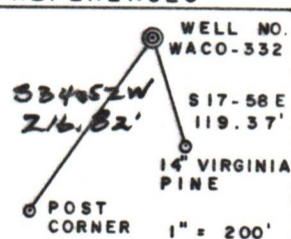
LONGITUDE 80° 45' 00"

NORTH



56 ACRES ±

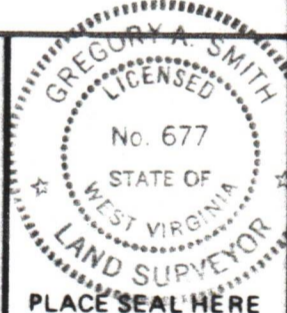
REFERENCES



NOTE: NO PERMITTED WELLS SHOWN WITHIN 1200'

FILE NO. 14-56
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 1211'

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE JUNE 25, 19 84
 OPERATOR'S WELL NO. WACO - 332
 API WELL NO. _____
47 - 021 - 4241
 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 1058' WATER SHED _____ ROAD RUN _____
 DISTRICT TROY COUNTY GILMER
 QUADRANGLE AUBURN 7.5'
 SURFACE OWNER SCOTT ZINN, et. al. ACREAGE 56
 OIL & GAS ROYALTY OWNER SCOTT ZINN, et. al. LEASE ACREAGE 56
 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) _____

09/29/2023

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ELK ESTIMATED DEPTH 5250'
 WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT KENNY GREENLIEF
 ADDRESS P. O. BOX 4 ADDRESS P. O. BOX 4
GLENVILLE, WV 26351 GLENVILLE, WV 26351