

021-4354



1) Date: June 5, 19 85
 2) Operator's Well No. Waco 339
 3) API Well No. 47 021 -4354
 State County Permit

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

OIL & GAS DIVISION
 DEPT. OF MINES

- Gas ☒ / Production ☒ / Underground storage ☐ / Deep ☐ / Shallow ☒ /
- 5) LOCATION: Elevation: 738' / Watershed: Leading Creek
 District: Troy / County: Gilmer / Quadrangle: Glenville 7.5 372
- 6) WELL OPERATOR Waco Oil & Gas CO., Inc. / 7) DESIGNATED AGENT Stephen E. Holloway
 Address P.O. Box 397 / Address: P.O. Box 397
Glenville, WV 26351 57800 / Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:
 Name Reo Mace / Name J.L. Morris Well Service, Inc.
 Address Route 1 Box 5 / Address P.O. Box 397
Sandridge, WV 25274 / Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill ☒ / Drill deeper ☐ / Redrill ☐ / Stimulate ☒ /
 Plug off old formation ☐ / Perforate new formation ☐ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Elk
- 12) Estimated depth of completed well, 5990 feet
- 13) Approximate strata depths: Fresh, 100 feet; salt, 1340 feet.
- 14) Approximate coal seam depths: none Is coal being mined in the area? Yes ☐ / No ☒ /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	<u>11 3/4</u>					<u>130</u>	<u>130</u>	<u>CTS by rule 15.05</u>		
Fresh water										
Coal										
Intermediate	<u>8 5/8</u>	<u>ERW</u>	<u>20#</u>	<input checked="" type="checkbox"/>		<u>1350</u>	<u>1350</u>	<u>250 sks to</u>	<u>surface</u>	
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5#</u>	<input checked="" type="checkbox"/>			<u>5990</u>	<u>600sks.</u>		
Tubing										
Liners										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4354 / Date June 12 19 85

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 June 12, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>168</u>	<u>A.B.</u>	<u>mt</u>	<u>mt</u>	<u>135-1</u>

Margaret J. Lasse
 Administrator, Office of Oil and Gas

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

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

File

CAUTION

DUE TO THE CONDITION

OF THE ORIGINAL DOCUMENT(S),

THE FOLLOWING IMAGE(S)

MAY BE OF POOR QUALITY



IV-9
Revised 11-81

DATE June 4, 1985
WELL NO. Waco 339 Revised
API NO. 47-021-4354

State of West Virginia
Department of Mines
Oil and Gas Division

Rec'd. (WFSO)
June 5 1985

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Waco Oil & Gas Co., Inc. DESIGNATED AGENT Stephen E. Holloway
Address Glenville, WV 26351 Address Glenville, WV 26351
Telephone (304) 462-5347 Telephone (304) 462-5347
LANDOWNER Waco Oil & Gas Co., Inc. SOIL CONS. DISTRICT West Fork
Revegetation to be carried out by Main Line Construction Co. (Agent)
This plan has been reviewed by West Fork SCO. All corrections
additions become a part of this plan: 6/7/85
Kenneth E. Knight
(SCO Agent)

ACCESS ROAD

Structure DRAINAGE DITCH (A)
Spacing Inside road cuts.
Page Ref. Manual 2-12
Structure CROSS DRAIN (B)
5-8% - 105' apart, 8-10% - 80' apart
Spacing as shown on sketch
With riprapped outlet.
Page Ref. Manual 2-11
Structure CULVERT (18" MIN. R.D.) (C)
as shown on plan, (according to O & G Manual)
Spacing at natural drains.
With riprapped outlet.
Page Ref. Manual 2-7

LOCATION

Structure DIVERSION DITCH (1)
Material Earth
Page Ref. Manual 2-12
Structure SEDIMENT BARRIER (2)
Material Brush & Stone
Page Ref. Manual 2-16
Structure FILTER STRIP (3)
Material Undisturbed Nat. Veg.
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.

REVEGETATION

Treatment Area I & II
* Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch 11. Seed Paper 3/4 Tons/acre
Seed* ky. 31 Fescue 35 lbs/acre
Ladino Clover 5 lbs/acre
_____ lbs/acre

~~XXXXXX~~
* Lime _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ lbs/acre
_____ lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium.
Inoculate with JX recommended amount.
*According to PH Test.

PLAN PREPARED BY SE Holloway

ADDRESS Waco Oil & Gas Co., Inc.

Glenville, 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.

OIL & GAS DIVISION
DEPT. OF MINES
JUN 11 1985

IV-9 REVERSE
Revised 11-81

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Glenville 7.5'

LEGEND

Well Site \oplus
Access Road ———

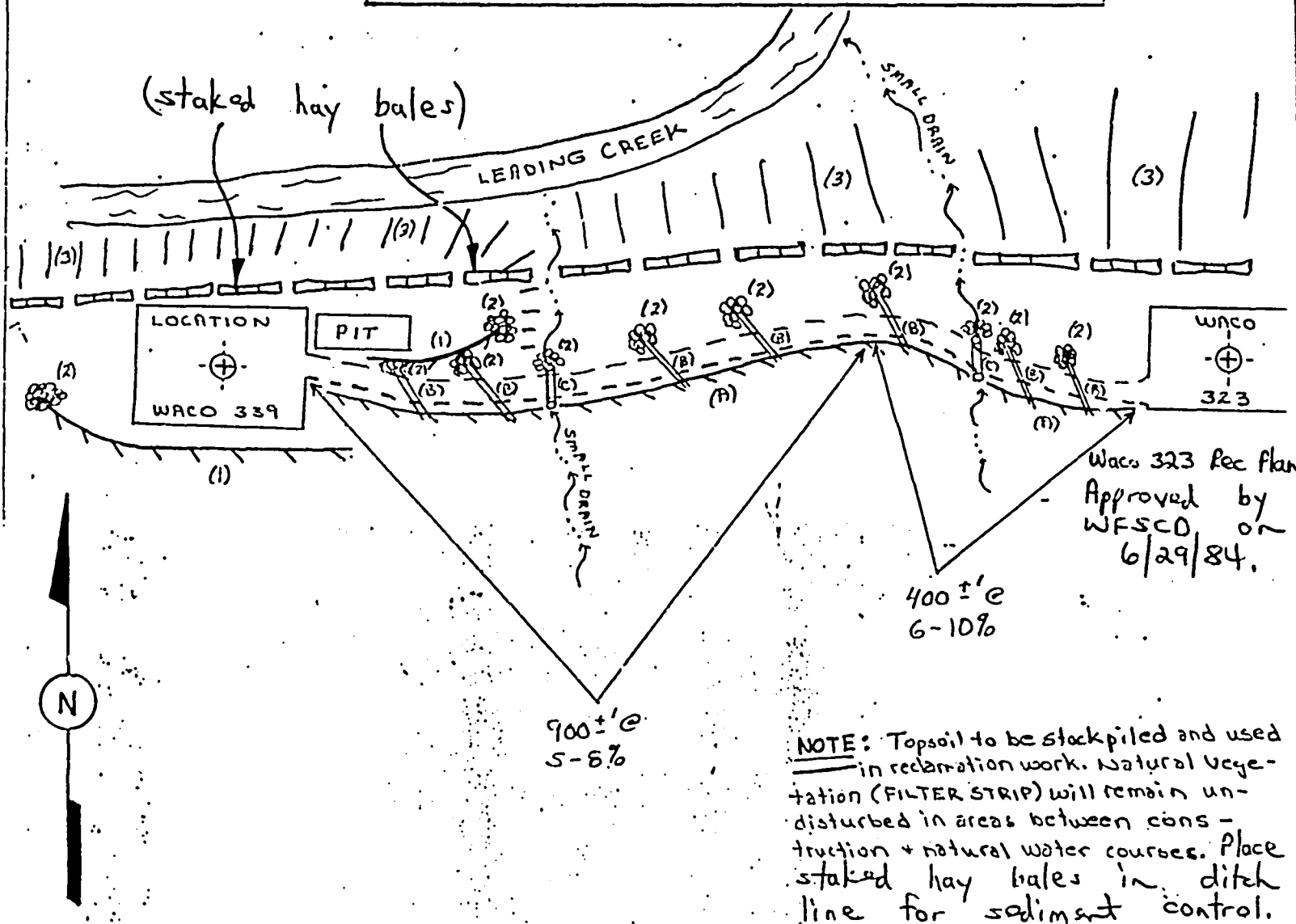


Land Use: Pasture — Hayland — Cropland — Woodland X.

LEGEND

Property boundary ———	North Arrow \nearrow
Road = = = = =	Diversion
Existing fence — X — X —	Spring $\odot \rightarrow$
Planned fence — / — / —	Wet Spot
Stream ~~~~~	Building \blacksquare
Open Ditch --->--->--->	Drain pipe ---O--->---O--->
Waterway --->--->--->	

(staked hay bales)



1) Date: June 5, 1985
 2) Operator's
 Well No. Waco 339 Revised
 3) API Well No. 47 -021- 4354
 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 Waco Oil & Gas Co., Inc.Address P.O. Box 397Glenview, WV 26351

(ii) Name _____

Address _____

(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 _____

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

Stephen E. Hollowaythis 5 day of June, 1985.My commission expires Sept 11th, 1994.Malcolm A. AllisonNotary Public, Wayne County,

WELL

OPERATOR Waco Oil & Gas Co., Inc.By Stephen E. Holloway

Stephen Holloway

Agent

Agent

Address P.O. Box 397Glenview, WV 26351Telephone 304 - 462-5347

JUN 11 1985

OIL & GAS DIVISION
DEPT. OF MINES

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(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 § 22-4-8a 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 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
Waco Oil & Gas Co., Inc.	Waco Oil & Gas Co., Inc.	1/8	341-231	



1) Date: June 5, 19 85
2) Operator's Well No. Waco 339, Revised
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: 738' Watershed: Leading Creek
District: Troy County: Gilmer Quadrangle: Glenville 7.5
- 6) WELL OPERATOR Waco Oil & Gas Co., Inc.
Address P.O. Box 397
Glenville, WV 26351
- 7) DESIGNATED AGENT Stephen E. Molloway
Address P.O. Box 397
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 Service, Inc.
Address P.O. Box 397
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, 5990 feet
- 13) Approximate strata depths: Fresh, 100 feet; salt, 1340 feet.
- 14) Approximate coal seam depths: none Is coal being mined in the area? Yes / No X /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cable feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	
Conductor										
Fresh water										
Coal									Sizes	
Intermediate	8 5/8	ERW	20#	X		1350	1350	250 sks. to surface		
Production	4 1/2	J-55	10.5#				5990	600 sks.	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, etc.)

NAME: Waco Oil & Gas Co., Inc.
By J. L. Morris
Its President Date 06/07/85

(For execution by natural persons)

(Signature) Date: _____

(Signature) Date: _____

FERC



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 1, 1985
Operator's
Well No. Waco #339
Farm Lockard
API No. 47 - 021 - 4354

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: 738 Watershed Leading Creek
District: Troy County Gilmer Quadrangle Glenville

COMPANY WACO OIL & GAS CO., INC.
ADDRESS Glenville, WV 26351
DESIGNATED AGENT Stephen E. Holloway
ADDRESS Glenville, WV 26351
SURFACE OWNER Waco Oil & Gas Co., Inc.
ADDRESS Glenville, WV 26351
MINERAL RIGHTS OWNER Waco Oil & Gas Co., Inc.
ADDRESS Glenville, WV 26351
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Sandridge, WV
PERMIT ISSUED 7/12/85
DRILLING COMMENCED 7/19/85
DRILLING COMPLETED 7/25/85
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			
Conn.			
13-10"			
9 5/8			
8 5/8	531	531	to surface
7'			
5 1/2			
4 1/2		5974	670 skc.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5990 feet
Depth of completed well 5995 feet Rotary x / Cable Tools
Water strata depth: Fresh 85 feet; Salt 1395 feet
Coal seam depths: None Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Shale, Elk, Alexander Pay zone depth see treatment feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1221 Mcf/d Final open flow show Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1710 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson, 3rd Riley Pay zone depth 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 4354

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

Genesee Shale - 5902 to 5942 - 500 Gal 15% Hcl, 40 Ton CO₂, 86 MCF N₂

Harrell Shale - 5740 to 5830 - 500 Gal 15% Hcl, 40 Ton CO₂, 80 MCF N₂

Lower Elk - 5210 to 5284 - 500 Gal 15% Hcl, 40 Ton CO₂, 75 MCF N₂

Upper Elk, Alexander - 5414 to 4760 - 500 Gal 15% Hcl, 40 Ton CO₂, 75 MCF N₂

Benson, 3rd riley - 4246 to 4334 - 500 Gal 15% Hcl, 40 Ton CO₂, 70 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
Shale			0	25	
Sand			25	90	Hole Damp @ 85'
Sand, Shale, Redrock			90	310	
Sand, Shale			310	1480	Hole Damp @ 1395'
Little Lime			1480	1500	
Blue Monday			1500	1526	
Big Lime			1526	1635	
Big Injun			1635	1680	
Sand, Shale			1680	2792	
Speechly Section			2792	3554	
Balltown Section			3554	3942	
Riley Section			3942	4323	
Benson			4323	4336	
Shale, Sand			4336	4610	
Alexander			4610	4718	
Shale			4718	4750	
Elk			4750	4760	
Shale			4760	5260	
Elk			5260	5270	
Shale			5270	5995	TD

(Attach separate sheets as necessary)

WACO OIL AND GAS CO., INC.

Well Operator

By: Noble W. Zickefoose, Geologist

Date: August 1, 1985

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."

INSPECTOR'S PERMIT SUMMARY FORM

6-12-85

WELL TYPE _____
ELEVATION _____
DISTRICT TRDY
QUADRANGLE _____
COUNTY GILMER

API# 47-D21-4354
OPERATOR WACO OIL & GAS
TELEPHONE _____
FARM WACO OIL & GAS
WELL # 334

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD _____ feet on _____

RECEIVED
NOV 06 1986

PLUGGING

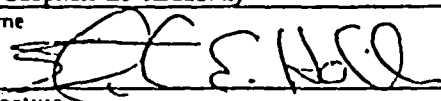
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released 10/31/86

Craig Duckworth
Inspector's signature

1.0 API well number: (If not available, leave blank. 14 digits.)	47-021-4354				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA		Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	59 1/2 feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	WACO OIL AND GAS CO., INC. Name PO Box 397 Street Glenville City				019942 Seller Code WV State 26351 Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Leading Creek Field Name Gilmer County WV State				
(b) For OCS wells:	na Area Name na Block Number Date of Lease: na Mo. Day Yr. na OCS Lease Number				
(c) Name and identification number of this well: (35 letters and digits maximum.)	Waco 339 Lockard				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	na				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Name				004228 Buyer Code
(b) Date of the contract:	na Mo. Day Yr.				
(c) Estimated annual production:	15 M.Acf.				
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		na	na	na	na
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		na	na	na	na
9.0 Person responsible for this application:	Stephen E. Holloway Name  Signature July 31, 1985 Date Application is Completed				
Agency Use Only Date Received by Juris. Agency AUG - 2 1985 Date Received by FERC	Agent Title 304-462-5347 Phone Number				

AUG 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

AGENCY USE ONLY

Date: July 31, 1985

Applicant's Name: Waco Oil & Gas Co., Inc. 51800

Address: PO Box 397
Glenville, WV 26351

Gas Purchaser Contract No. na

Date of Contract na
(Month, day and year)

First Purchaser: Consolidated Gas Supply 9620

Address: PO Box 2450
(Street or P.O. Box)
Clarkeburg, WV 26301
(City) (State) (Zip Code)

FERC Seller Code 019942

WELL DETERMINATION FILE NUMBER

850802-030-021-4354

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Stephen E. Holloway

Address: PO Box 397
Glenville, WV 26351

FERC Buyer Code 004228

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL
BE ADDRESSED:

Name: Stephen E. Holloway Agent
(Print) (Title)

Signature: [Signature]

Address: PO Box 397
(Street or P.O. Box)
Glenville, WV 26351
(City) (State) (Zip Code)

Telephone: 304 462-5347
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

HGPA Category Applied For

HGPA SECTION/SUBSECTION

102 New Natural Gas
102-2 2.5 Mile Test
102-3 1000 Foot Deeper Test
102-4 New Onshore Reservoir

108 Stripper Well Natural Gas
108- Stripper Well
108-1 Seasonally Affected
108-2 Enhanced Recovery
108-3 Temporary Pressure Buildup

103 New Onshore Production Well
103 New Onshore Production Well

107 High Cost Natural Gas
107-0 Deep (more than 15,000 feet)
107-1 Geopressured Brine
107-2 Coal Seams
107-3 Devonian Shale
107-5 Production enhancement
107-6 New Tight Formation
107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

RECEIVED
AUG 2 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

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

Date July 31, 1985

Operator's
Well No Waco 339
API Well
No. 47 - 021 - 4354
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
WPGA Section 103

WELL OPERATOR Waco Oil & Gas Co., Inc.
ADDRESS PO Box 397
Glenville, WV 26351
GAS PURCHASER Consolidated Gas Supply
ADDRESS PO Box 2450
Clarksburg, WV 26301

DESIGNATED AGENT Stephen E. Holloway
ADDRESS PO Box 397
Glenville, WV 26351
LOCATION: Elevation 738
Watershed Leading Creek
Dist. Troy County Gilmer Quad Glenville
Gas Purchase
Contract No. na
Meter Chart Code na
Date of Contract na

Date surface drilling was begun: July 19th, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated:

$$PWS = PWH + (0.25) \left(\frac{PWH}{100} \right) \left(\frac{D}{100} \right)$$

$$PWS = 1710 + (0.25) \left(\frac{1710}{100} \right) \left(\frac{5974}{100} \right)$$

$$PWS = 1710 + (0.25) (17.1) (59.74)$$

$$PWS = 1710 + 255.08$$

$$PWS = 1965$$

PWS = Bottom Hole Pressure
PWH = Top Hole Pressure
D = Depth of Well Casing

AFFIDAVIT

I, Stephen E. Holloway, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Stephen E. Holloway

STATE OF WEST VIRGINIA,

COUNTY OF GILMER, TO WIT:

I, Gregory C. Nicholson, a Commissioner in and for the state and county aforesaid, do certify that Stephen E. Holloway whose name is signed to the writing above, bearing date the 31 day of July, 1985, has acknowledged the same before me, in my county aforesaid.
Given under my hand and official seal this 31 day of July, 1985.
My term of office expires on the 16 day of September, 1992.

[NOTARIAL SEAL]

Gregory C. Nicholson
Notary Public

1.0 API well number: (If not available, leave blank. 14 digits.)	47-021-4354			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5942			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	WACO OIL & GAS CO., INC. Name PO Box 397 Street Glenville, City			WV State 26351 Zip Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Leading Creek Field Name Gilmer County			
(b) For OCS wells:	na Area Name na Block Number Date of Lease: na Mo. Day Yr. na OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	WACO #339 Lockard			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	na			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Name			004228 Buyer Code
(b) Date of the contract:	na Mo. Day Yr.			
(c) Estimated annual production:	17 MMcf.			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	na	na	na	na
9.0 Person responsible for this application:	Stephen E. Holloway Name Agent Title Signature August 9, 1985 Date Application is Completed 304-462-5347 Phone Number			

RECEIVED
AUG 14 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
019942
Seller Code

Agency Use Only

Date Received by Juris. Agency

AUG 14 1985

Date Received by FERC

AUG 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 9, 1985

AGENCY USE ONLY

Applicant's Name: Waco Oil & Gas Co., Inc. *51800*

Address: PO Box 397

Glenville, WV 26351

Gas Purchaser Contract No. na

Date of Contract na
(Month, day and year)

First Purchaser: Consolidated Gas Supply *P 620*

Address: PO Box 2450

(Street or P.O. Box)

Clarksburg

WV

26301

(City)

(State)

(Zip Code)

FERC Seller Code 019942

FERC Buyer Code 004228

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Stephen E. Holloway

Agent

(Print) *[Signature]*

(Title)

Address:

PO Box 397

(Street or P.O. Box)

Glenville

WV

26351

(City)

(State)

(Zip Code)

Telephone:

304

462-5347

(Area Code)

(Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas

- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

103 New Onshore Production Well

- 103 New Onshore Production Well

107 High Cost Natural Gas

- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

108 Stripper Well Natural Gas

- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

QUALIFIED

RECEIVED
AUG 14 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

Operator: WACO OIL & GAS CO., INC. Agent: Stephen F. Holloway

type Determination Being sought - 107 (Devonian Shale)

PI Well No.: 47-021-4354

Well Name: Waco #339 (Lockard Lease)

West Virginia Office of Oil and Gas References:

County: Gilmer

SJA File No.

Volume _____ Page _____ Line _____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray evaluation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 158.75 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 158.75 * API Units
2. Calculation: $0.7 \text{ (GR Value at Base Line)} =$
 $0.7 \text{ (} \underline{158.75} \text{ *)} = \underline{111.125} \text{ API Units}$

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To**		
2010	2487	477	16
2487	2794	307	0
2794	3050	256	22.5
3050	3515	465	0
3515	3782	267	5.5
3782	4323	541	0
4323	4334	11	7.5
4334	4633	299	0
4633	4761	128	11
4761	5282	521	0
5282	5292	10	2
5292	5953	661	0
Total Devonian Interval			
5953	5963	10	2
Total Less Than 0.7 (Shale Base)			
5963	5976	13	0
% Less than 0.7 (Shale Base Line) =		$\frac{66.5}{3966} \times 100 = 1.68$	

*Marked on log included with analysis.
**Top of Devonian Section Recorded as First Interval in this Column.
***Lesser of TD or Bottom of Devonian Section Recorded as Last Interval in this Column.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. #339

API Well No.

47 - 021 - 4354
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Stephen E. Holloway

ADDRESS PO Box 397
Glenville, WV 26351

LOCATION Elevation 738'

Watershed Leading Creek

Dist. Troy County Gilmer Quad. Glenville

Gas Purchase
Contract No. na

Meter Chart Code na

Date of Contract na

WELL OPERATOR Waco Oil & Gas Co., Inc.

ADDRESS PO Box 397
Glenville, WV 26351

GAS PURCHASER Consolidated Gas Supply

ADDRESS PO Box 2450
Clarksburg, WV 26301

* * * * *

Date surface drilling began: July 19, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$PWS = PWH + (0.25) \left(\frac{1710}{100} \right) \left(\frac{5974}{100} \right)$$

PWS = Bottom Hole Pressure

PWH = Top Hole Pressure

$$PWS = 1710 + (0.25) \left(\frac{1710}{100} \right) \left(\frac{5974}{100} \right)$$

D = Depth of Well Casing

$$PWS = 1710 + (0.25) (17.10) (59.74)$$

$$PWS = 1710 + 255.39$$

$$PWS = 1965$$

AFFIDAVIT

I, Stephen E. Holloway, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Stephen E. Holloway

STATE OF WEST VIRGINIA

COUNTY OF GILMER, TO-WIT:

I, Gregory C. Nicholson, a Commissioner in and for the state and county aforesaid, do certify that Stephen E. Holloway, whose name is signed to the writing above, bearing date the 9th day of August, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 9th day of August, 1985.

My term of office expires on the 16th day of September, 1992.

(NOTARIAL SEAL)

Gregory C. Nicholson
Notary Public

777-6-11-85

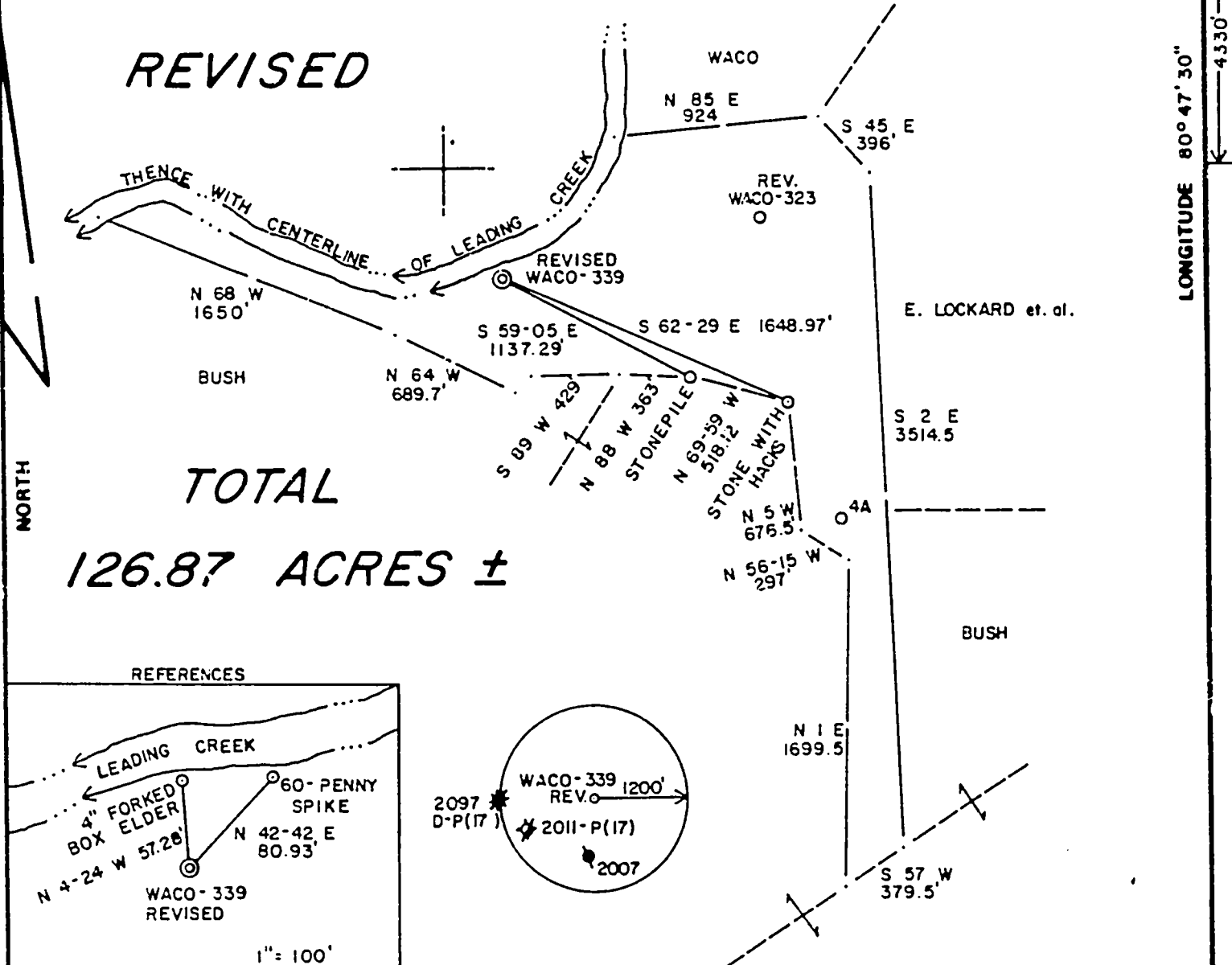
9850'

LATITUDE 39° 00' 00"

LOCKARD LEASE

WACO - 339

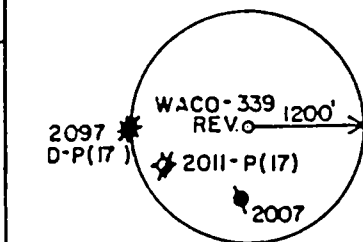
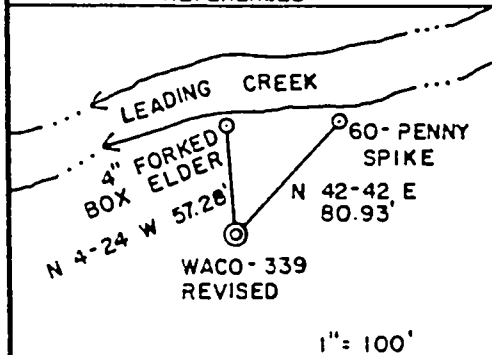
REVISED



TOTAL

126.87 ACRES ±

REFERENCES



FILE NO. 12-61
DRAWING NO. _____
SCALE 1" = 800'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 1237'

I THE UNDERSIGNED, HERESY 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
(9-78)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JUNE 29, 19 84
OPERATOR'S WELL NO. WACO-339
API WELL NO. 47-021-4354
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 738' WATER SHED LEADING CREEK
DISTRICT TROY COUNTY GILMER
QUADRANGLE GLENVILLE 7.5'

SURFACE OWNER WACO OIL & GAS CO., INC. ACREAGE 6676
OIL & GAS ROYALTY OWNER WACO OIL & GAS CO., INC. LEASE ACREAGE 126.87
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 ELK ESTIMATED DEPTH 4950'
WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY
ADDRESS P.O. BOX 397 ADDRESS P.O. BOX 397
GLENVILLE, WV 26351 GLENVILLE, WV 26351

MAR 13 1995

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
NITRO, WEST VIRGINIA 25143

WV Division of
Environmental Protection

THIS IS TO ACKNOWLEDGE THAT THE WELL: API NO.

48-021-04354

WELL NO.

FARM NAME

Lockard W339

IS HEREBY TRANSFERRED FROM:

THE TRANSFEROR

COMPANY:

Waco Oil and Gas Co., Inc.

CODE #

51800

ADDRESS:

1297 N. Lewis Street, Glenville, WV 26351

TO:

THE TRANSFERREE

COMPANY:

Ashland Exploration, Inc.

CODE #

2750

ADDRESS:

P. O. Box 391, Ashland, KY 41114

THE TRANSFEREE BY THIS DOCUMENT IS ACCEPTING ALL RESPONSIBILITY FOR COMPLIANCE WITH THE PROVISIONS OF CHAPTER 22B et seq., OF THE WEST VIRGINIA CODE OF 1931, AS AMENDED AND ALL RULES AND REGULATIONS PROMULGATED THEREUNDER, FOR THE LISTED WELL.

THE TRANSFEREE HAS REGISTERED AND DESIGNATED AN AGENT ON FORM OP-1, WHO IS

DESIGNATED AGENT (NAME):

Bobby E. Widener

ADDRESS:

P. O. Box 156, Brenton, WV 24818

WHICH IS ON FILE WITH THE OFFICE OF OIL & GAS

SECURITIES ☐

CASH ☐

SURETY BOND ☐

X

LETTER OF CREDIT ☐

IDENTIFIED BY: M891744-378-WV

AMOUNT:

\$50,000

EFFECTIVE DATE.

8-16-77

ISSUING AUTHORITY:

Insurance Company of North America

ID. NO.

TRANSFEREE:

Ashland Exploration, Inc.

BY:

B. W. Fischer

ITS:

Vice President

TAKEN, SUBSCRIBED AND SWORN BEFORE ME THIS

19 95

2nd DAY OF

March

NOTARY PUBLIC:

MY COMMISSION EXPIRES:

April 27, 1997

TRANSFEROR:

Waco Oil and Gas Co., Inc.

BY:

Kenneth L. Greenlief

Kenneth L. Greenlief

ITS:

Vice President

TAKEN, SUBSCRIBED AND SWORN BEFORE ME THIS

19 95

27th DAY OF

February

NOTARY PUBLIC:

MY COMMISSION EXPIRES:

Aug 12, 1997

