



1) Date: February 14, 19 84  
 2) Operator's Well No. Adams #2A  
 3) API Well No. 47 - 021-4166  
 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  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 1121 Watershed: Stonelick Run  
 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 Service  
 Address 1297 N. Lewis Street  
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, E1k
- 12) Estimated depth of completed well, 5300 feet
- 13) Approximate strata depths: Fresh, 165 feet; salt, n/a feet.
- 14) Approximate coal seam depths: n/a Is coal being mined in the area? Yes  No
- 15) CASING AND TUBING PROGRAM

**RECEIVED**  
 FEB 23 1984  
 OIL & GAS DIVISION,  
 DEPT. OF MINES

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		725'	725'	To Surface	by rule 15.05
Production	4 1/2	J-55	10.5	X			5300'	496 Sacks	by rule 15.01
Tubing									Depths set
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-021-4166 Date March 27, 1984

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 March 27, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <i>ls</i>	Plat: <i>MW</i>	Casing <i>MW</i>	Fee <i>1023</i>
-------------------------	---------------------	--------------------	---------------------	--------------------

*[Signature]*  
 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) LOCATION: B (Oil, Gas, Production) Underground storage / Shallow (X) / Deep ( )  
 Elevation: 1123' / 1123'  
 District: Troy  
 County: Boone  
 2) WELL OPERATOR: West Virginia Gas Co., Inc.  
 Address: 1297 W. Lewis Street, Glenview, WV 26031  
 3) DESIGNATED AGENT: Kenneth Greenleaf  
 Address: 1297 W. Lewis Street, Glenview, WV 26031  
 4) DRILLING CONTRACTOR: L.L. Morris Well Service  
 Address: 1297 W. Lewis Street, Glenview, WV 26031  
 5) OIL & GAS INSPECTOR TO BE NOTIFIED: Geo. L. Lacey  
 Address: Route 1, Box 2, Sandbitch, WV 26074  
 6) PROPOSED WELL WORK: Drill (X) / Redrill ( ) / Stimulate ( )  
 Other physical change in well (specify):  
 7) GEOLOGICAL TARGET FORMATION: Fresh  
 Estimated depth of completed well: 3300 feet  
 Approximate true depth: Fresh, 3300 feet  
 Approximate coal seam depth: n/a  
 Is coal being mined in the tract: Yes

RECEIVED  
 FEB 23 1984  
 DEPT. OF MINES  
 OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	SPECIFICATIONS			Footage Intervals	Cement Fill, or Sacks (Cubic Feet)	Packers
			Weight per Ft.	New	Used			
Production	4 1/2	J-55	10.5	X		725'		
Intermediate	3 1/2	J-55	10.5	X		725'		
Coal								
Fresh water								
Conductor								

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)
Application received	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

Permit expires: March 27, 1984  
 This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the permit documents subject to the conditions contained herein and on the reverse hereof. Modification must be filed to the District Oil and Gas Inspector. (Refer to district office for the construction of casing, location of well, and other matters. In addition, the well operator or his contractor, in addition, the well operator or his contractor, must file a copy of this permit with the district office 24 hours before actual permitted work has commenced.)

OTHER INSPECTIONS

Reason:	Fee	Casing	Plan	Asst.	Blanket
					BLANKET

12/01/2023



Ferc



IV-35  
(Rev 8-81)

Date August 21, 1985  
Operator's  
Well No. 2A  
Farm Adams  
API No. 47 - 021 - 4166

State of West Virginia  
Department of Mines  
Oil and Gas Division

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: 1121 Watershed Stonewall Run  
District: Troy County Gilmer Quadrangle Auburn 7.5'

COMPANY Waco Oil & Gas Co., Inc.  
ADDRESS PO Box 397, Glenville, WV 26351  
DESIGNATED AGENT Stephen E. Holloway  
ADDRESS PO Box 397 Glenville, WV 26351  
SURFACE OWNER Glenward S. & Charles W. Adams  
ADDRESS Coxs Mills, WV 26342  
MINERAL RIGHTS OWNER Nelson Garrett et al  
ADDRESS Coxs Mills, WV 26342  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
Deo Mace ADDRESS Sandridge, WV 25274  
PERMIT ISSUED March 27, 1984  
DRILLING COMMENCED August 6, 1985  
DRILLING COMPLETED August 11, 1985  
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	888	888	surf
7			
5 1/2			
4 1/2	5966	5966	650 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5300 feet  
Depth of completed well 5980 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 248,442 feet; Salt None feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Shale, Elk, Alexander, Benson Pay zone depth see treatment feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1384 Mcf/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1475 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 4166

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

Devonian Shale - 5899-5961, 630 Gal 15% Hcl, 60 Ton CO<sub>2</sub>, 115 MCF N<sub>2</sub>  
 Elk, Alexander - 5021-5490, 630 Gal 15% Hcl, 60 Ton CO<sub>2</sub>, 156 MCF N<sub>2</sub>  
 Benson, Riley, Balltown - 3838-4854, 630 Gal 15% Hcl, 80 Ton CO<sub>2</sub>, 123 MCF N<sub>2</sub>

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			3	125	
Redrock Sand, & Shale			125	807	Hole Damp @ 248' & 442'
Sand & Shale			807	1944	
Little Lime			1944	1980	
Big Lime			1980	2030	
Big Injun			2030	2130	
Shale			2130	2230	
Weir Sand			2230	2350	
Shale			2350	2410	
Berea			2410	2420	
Sand & Shale			2420	3220	
Speechly Section			3220	3810	
Balltown Section			3810	4430	
Riley Section			4430	4826	
Benson			4826	4830	
Shale			4830	4970	
Alexander			4970	5160	
Elk Section			5160	5480	
Shale			5480	5980	TD

(Attach separate sheets as necessary)

WACO OIL & GAS COMPANY, INC.  
Well Operator

By: \_\_\_\_\_, Daniel R. Chapman, Geologist  
 Date: August 21, 1985

12/01/2023

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."



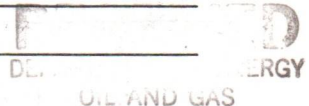
3-27-84

IR-26  
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DISTRICT TROY  
QUADRANGLE \_\_\_\_\_  
COUNTY GILMER

API# 47-021 - 4166  
OPERATOR WACO OIL & GAS  
TELEPHONE \_\_\_\_\_  
FARM EZRA ADAMS  
WELL # 2A



SURFACE OWNER \_\_\_\_\_ COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
LOCATION \_\_\_\_\_ NOTIFIED \_\_\_\_\_ DRILLING COMMENCED APR 22 1986

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 \_\_\_\_\_

PLUGGING

Type	From	To	Pipe Removed

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

Date Released 4/18/86

Craig Duckworth 12/01/2023  
Inspector's signature



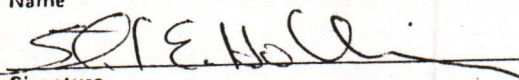
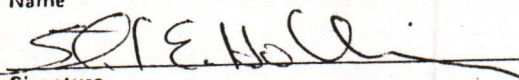
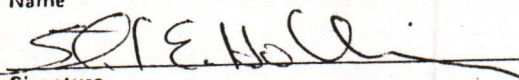
API# 47 \_\_\_\_\_ - \_\_\_\_\_

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47- 021-4166</u>												
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA <u>                    </u> Category Code												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5961</u> feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>WACO OIL &amp; GAS COMPANY INC.</u> <u>019942</u> Name Seller Code <u>PO BOX 397</u> Street <u>Glennville</u> <u>WV</u> <u>26351</u> City State Zip Code												
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Stonelick Run</u> Field Name <u>Gilmer</u> <u>WV</u> County State												
(b) For OCS wells:	<u>NA</u> <u>NA</u> Area Name Block Number  Date of Lease: <u>NA</u> Mo. Day Yr. <u>NA</u> OCS Lease Number												
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Adams #2A</u>												
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>NA</u>												
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>Consolidated Gas Supply</u> <u>004228</u> Name Buyer Code												
(b) Date of the contract:	<u>NA</u> Mo. Day Yr.												
(c) Estimated annual production:	<u>16</u> MMcf.												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> </tr> <tr> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>										
<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> <td style="text-align:center;"><u>NA</u></td> </tr> </tbody> </table>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>								
<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>										
9.0 Person responsible for this application:	<table style="width:100%;"> <tr> <td style="width:70%;"><u>Stephen E. Holloway</u></td> <td style="width:30%;"><u>Agent</u></td> </tr> <tr> <td>Name</td> <td>Title</td> </tr> <tr> <td colspan="2" style="text-align:center;"></td> </tr> <tr> <td colspan="2" style="text-align:center;">Signature</td> </tr> <tr> <td style="text-align:center;"><u>August 21, 1985</u></td> <td style="text-align:center;"><u>304-462-5347</u></td> </tr> <tr> <td style="text-align:center;">Date Application is Completed</td> <td style="text-align:center;">Phone Number</td> </tr> </table>	<u>Stephen E. Holloway</u>	<u>Agent</u>	Name	Title			Signature		<u>August 21, 1985</u>	<u>304-462-5347</u>	Date Application is Completed	Phone Number
<u>Stephen E. Holloway</u>	<u>Agent</u>												
Name	Title												
													
Signature													
<u>August 21, 1985</u>	<u>304-462-5347</u>												
Date Application is Completed	Phone Number												
Agency Use Only													
Date Received by Juris. Agency <b>AUG 26 1985</b>													
Date Received by FERC													

12/01/2023



SEP 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 21, 1985

51800

Applicant's Name: WACO OIL & GAS COMPANY, INC.

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)

Clarksburg WV 26301

(City) (State) (Zip Code)

FERC Seller Code 019942

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

850826 -1030 -021 - 4166

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

Signature: (Print) S E Holloway (Title)

Address: PO Box 397  
(Street or P.O. Box)  
Glenville WV 26351

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

XXXX 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**

12/01/2023

**RECEIVED**  
AUG 26 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date Received

Determination Date



Date August 21, 1985

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

Operator's Well No. Adams #2A

API Well No. 47 - 021 - 4166  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
MCPA Section 103

DESIGNATED AGENT Stephen E. Holloway

ADDRESS PO Box 397  
Glennville, WV 26351

WELL OPERATOR WACO OIL & GAS CO., INC.

LOCATION: Elevation 1121'

ADDRESS PO Box 397

Watershed Stonelick Run

Glennville, WV 26351

Dist. Troy County Gilmer Quad. Auburn 7.5'

GAS PURCHASER Consolidated Gas Supply

Gas Purchase Contract No. na

ADDRESS PO Box 2450

Meter Chart Code na

Clarksburg, WV 26301

Date of Contract na

\* \* \* \* \*

Date surface drilling was begun: August 6, 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 = Bottom Hole Pressure

$$PWS = 1475 + (0.25) \left( \frac{1475}{100} \right) \left( \frac{5976}{100} \right)$$

PWH = Top Hole Pressure

D = Depth of Well Casing

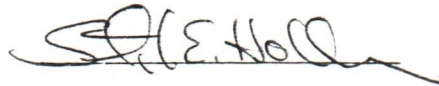
$$PWS = 1475 + (0.25) (4.75) (59.76)$$

$$PWS = 1475 + 219.99$$

$$PWS = 1695$$

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.



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 21 day of August, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 21 day of August, 1985.

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

[NOTARIAL SEAL]

  
Notary Public

12/01/2023







DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 21, 1985 51800

Applicant's Name: WACO OIL & GAS COMPANY, INC.

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 P620

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

FERC Seller Code 019942

AGENCY USE ONLY *Dev*

WELL DETERMINATION FILE NUMBER

850826 -1073-021 - 4166

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: *Stephen E. Holloway*

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

12/01/2023

RECEIVED

AUG 26 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date Received

Determination Date



Type Determination Being sought - 107 (Devonian Shale)

PI Well No.: 47-021- 4166

Well Name: Adams #2A

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 = 144.14 \* API Units
2. Remarks:

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

1. GR Value = 144.14 \* API Units
2. Calculation:  $0.7 \text{ (GR Value at Base Line)} = 0.7 \text{ (} \underline{144.14} \text{ *)} = \underline{100.90}$  API Units

II. 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***		
2480	- 2530	50	2.5
2530	- 2928	398	0
2928	- 2980	52	3.5
2980	- 3291	311	0
3291	- 3401	110	11
3401	- 3530	129	0
3530	- 3540	10	1.5
3540	- 3819	279	0
3819	- 3829	10	2
3829	- 4058	229	0
4058	- 4068	10	1
4068	- 4203	135	0
4203	- 4213	10	1
4213	- 4679	466	0
4679	- 4689	10	.5

Total Devonian Interval

3480

Total Less Than 0.7 (Shale Base)

38

% Less than 0.7 (Shale Base Line) -  $\frac{38}{3480} \times 100 = 1\%$

\*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.

4689	4983	294	0
4983	5178	195	14.5
4178	5460	282	0
5460	5470	10	5
5470	5960	480	

12/01/2023



DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's  
Well No. Adams #2A

API Well No.  
47 - 021 - 4166  
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 1121  
Watershed Stonelick Run

Dist. Troy County Gilmer Quad. Auburn 7.5'

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: August 6, 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 = Bottom Hole Pressure  
PWH = Top Hole Pressure  
D = Depth of Well Casing

$$PWS = 1475 + (0.25) \left( \frac{1475}{100} \right) \left( \frac{5966}{100} \right)$$

$$PWS = 1475 + (0.25) (14.75) (59.66)$$
$$PWS = 1475 + 219.99$$
$$PWS = 1695$$

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 ~~Notary Public~~ <sup>COMMISSIONER</sup> 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 21 day of August, 19 85 <sup>12/01/2023</sup> has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 21st day of August, 19 85.

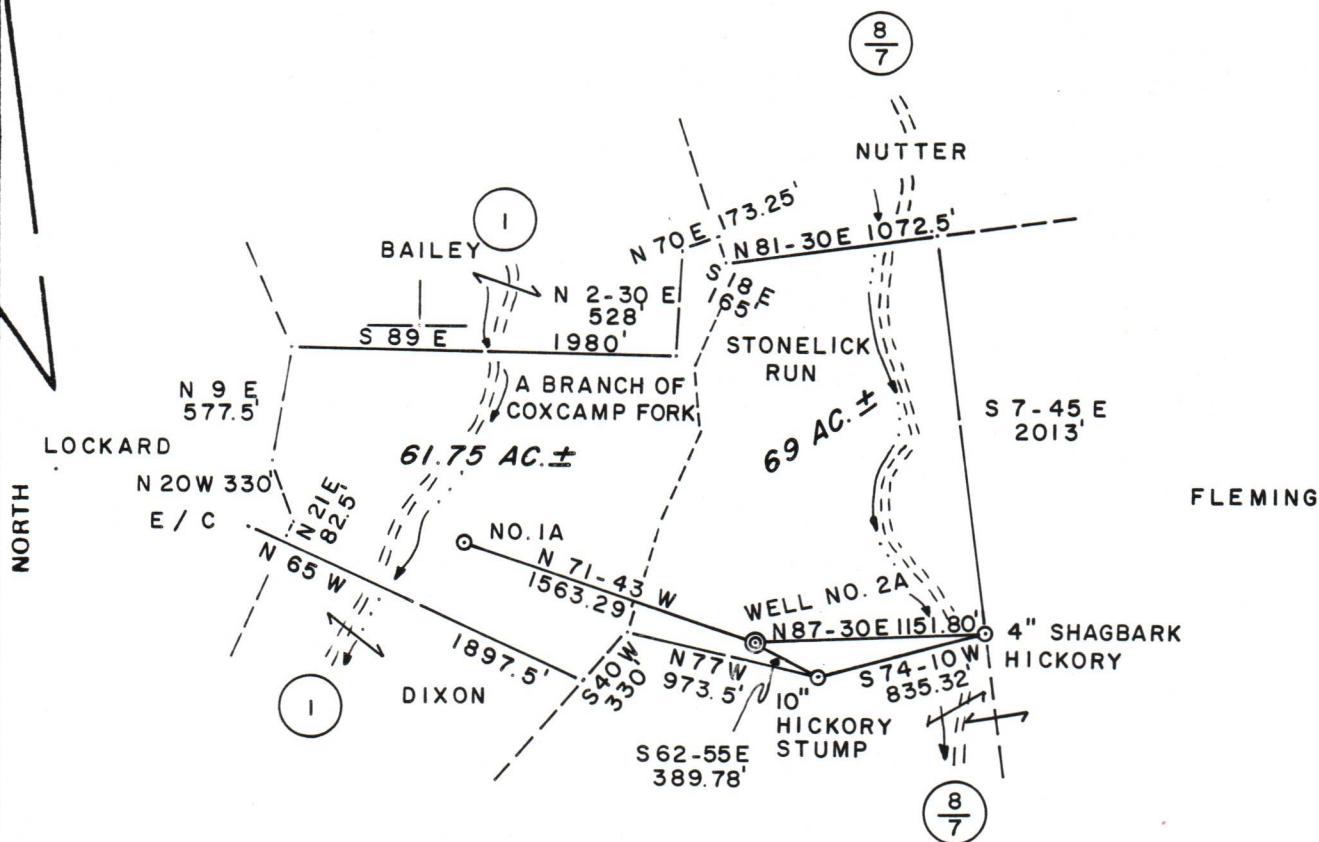
My term of office expires on the 16th day of September, 19 92.

(NOTARIAL SEAL)

Gregory C. Nicholson  
Notary Public



# ADAMS LEASE WELL NO. 2A



## 132 ACRES ± TOTAL

NOTE: NO PERMITTED WELLS SHOWN  
WITHIN 1200'

FILE NO. 12-52  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF  
 ACCURACY 1 / 200  
 PROVEN SOURCE OF  
 ELEVATION JUNCT. OF ROADS  
ELEV. 910'

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT 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

3/27

FORM IV-6  
 (8-78)



DATE JAN. 18, 19 84  
 OPERATOR'S WELL NO. 2A  
 API WELL NO. \_\_\_\_\_  
47 - 021 - 4166  
 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 X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1121' WATER SHED STONELICK RUN  
 DISTRICT TROY COUNTY GILMER  
 QUADRANGLE AUBURN 7.5'  
 SURFACE OWNER GLENNARD S. & CHARLES W. ADAMS ACREAGE 69  
 OIL & GAS ROYALTY OWNER NELSON GARRETT, et. al. LEASE ACREAGE 132/01/2023  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ 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 5300'  
 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



1) Date: February 14, 19 84  
 2) Operator's Well No. Adams #2A  
 3) API Well No. 47 -021-4166  
 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 Ezra Adams  
 Address Cox's Mills, WV 26342

(ii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

(iii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5(i) COAL OPERATOR None  
 Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name None  
 Address \_\_\_\_\_

Name \_\_\_\_\_

SS \_\_\_\_\_  
 SSEE WITH DECLARATION ON RECORD:  
None

SS \_\_\_\_\_

the following documents:  
 Form IV-4 if the well is drilling or other work, the proposed casing and V-6; and the well work is only to be under control and for

REGARDING THE APPLICATION COPY OF THE APPLICATION REQUIRED TO TAKE ANY

undersigned well operator's accompanying documents Gas, West Virginia on attached Application the plat, and the certified mail or delivered (circumstances) on or

contracts by which side for specifics

on a lease or leases by similar provisions inherently related No X  
 DEPT. OF MINES

TO THE PERSON(S) TO BE SERVED:  
 (1) The Affidavit to be signed and delivered  
 (2) The plat  
 (3) The Construction and Reclamation Plan

THE REASONS WHICH ARE SUMMARY OF THE ACTION AT ALL.

Take notice that the well operator proposes for a Well Work Permit and depicted on the attached Construction and Reclamation Plan by hand to the undersigned before the date

6) EXTRACTION: Check and include \_\_\_\_\_  
 Includes \_\_\_\_\_  
 The required

7) ROYALTY PRORATA: Is the right or other compensation to the volume of gas produced by the well?

If you use Affidavit Form IV-60.

PS Form 3811, July 1982

● SENDER: Complete Items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).  
 Show to whom and date delivered .....  
 Show to whom, date, and address of delivery ..  
 RESTRICTED DELIVERY .....  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ \_\_\_\_\_

3. ARTICLE ADDRESSED TO:  
Ezra Adams  
Cox's Mills, WV 26342

4. TYPE OF SERVICE:  REGISTERED  INSURED  CERTIFIED MAIL  COD  EXPRESS MAIL  
 ARTICLE NUMBER 0534325890

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent  
Edward S. Adams

5. DATE OF DELIVERY 2-17-84

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

EMPLOYEE'S INITIALS RW

POSTMARK: FEB 17 1984

RECEIVED  
 FEB 23 1984

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 14 day of February, 19 84.  
 My commission expires 9/16, 19 90.  
M. Lynn Chryman  
 Notary Public, Gilmer County,  
 State of West Virginia

WELL OPERATOR Waco Oil & Gas Co., Inc.  
 By Kenneth Greenlief  
 Its Agent  
 Address 1297 N. Lewis Street  
Glennville, WV 26351  
 Telephone (304) 462-5347

12/01/2023



I N S T R U C T I O N S T O A P P L I C A N T

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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Nelson Garrett	Waco Oil & Gas Co., Inc.	1/8	340-462

12/01/2023





IV-9  
(Rev 8-81)

DATE FEBRUARY 1, 1984

WELL NO. 2A - ADAMS

State of West Virginia

API NO. 47 - 021 - 4166

Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME WACO OIL & GAS CO., INC.

DESIGNATED AGENT KENNY GREENLIEF

Address P.O. BOX 4, GLENVILLE, WV 26351

Address P.O. BOX 4, GLENVILLE, WV 26351

Telephone (304) 462 - 5347

Telephone (304) 462 - 5347

LANDOWNER GLENNARD S. & CHARLES W. ADAMS

SOIL CONS. DISTRICT WEST FORK

Revegetation to be carried out by WACO OIL & GAS CO., INC. (Agent)

This plan has been reviewed by West Fork SCD. All corrections  
and additions become a part of this plan: 2/10/84 (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 WFSKD.**

Kenneth E Knight  
(SCD Agent)

**RECEIVED**

FEB 23 1984

OIL & GAS DIVISION

LOCATION **DEPT. OF MINES**

Structure DRAINAGE DITCH (A)

Structure DIVERSION DITCH (1)

Spacing AS SHOWN Inside road cuts

Material EARTHEN

Page Ref. Manual 2-12

Page Ref. Manual 2-12

Structure CROSS DRAIN (B)  
Spacing 5% - 13.5' apart 8% - 10.5' apart 15% - 60' apart AS REQUIRED PER SECTION OF GRADE

Structure SEDIMENT BARRIER (2)  
Material LOGS & STONE

Page Ref. Manual 2-1

Page Ref. Manual 2-16

Structure ROAD CULVERT (C)  
(according to Oil & Gas Manual) (at natural drains)  
Spacing 18" min. I.D.

Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_

Page Ref. Manual 2-8

Page Ref. Manual \_\_\_\_\_

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.

Structure Sediment Barrier  
Material Hay or Straw bales (D)  
Pg. Ref. Man. 2-16 REVEGETATION

Treatment Area I & II

~~XXXXXXXXXXXX~~

\*Lime \_\_\_\_\_ Tons/acre  
or correct to pH 6.5

Lime \_\_\_\_\_ Tons/acre  
or correct to pH \_\_\_\_\_

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Fertilizer \_\_\_\_\_ lbs/acre  
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch \_\_\_\_\_ Tons/acre

Seed\* KY-31 40 lbs/acre

Seed\* \_\_\_\_\_ lbs/acre

Red Top 5 lbs/acre

\_\_\_\_\_ lbs/acre

\_\_\_\_\_ lbs/acre

\_\_\_\_\_ lbs/acre

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

\*Lime according to pH test,

PLAN PREPARED BY Smith Land Surveying Co. 12/01/2023

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

ADDRESS 111 South Street

Glenville, WV 26351

PHONE NO. (304) 462 - 5634

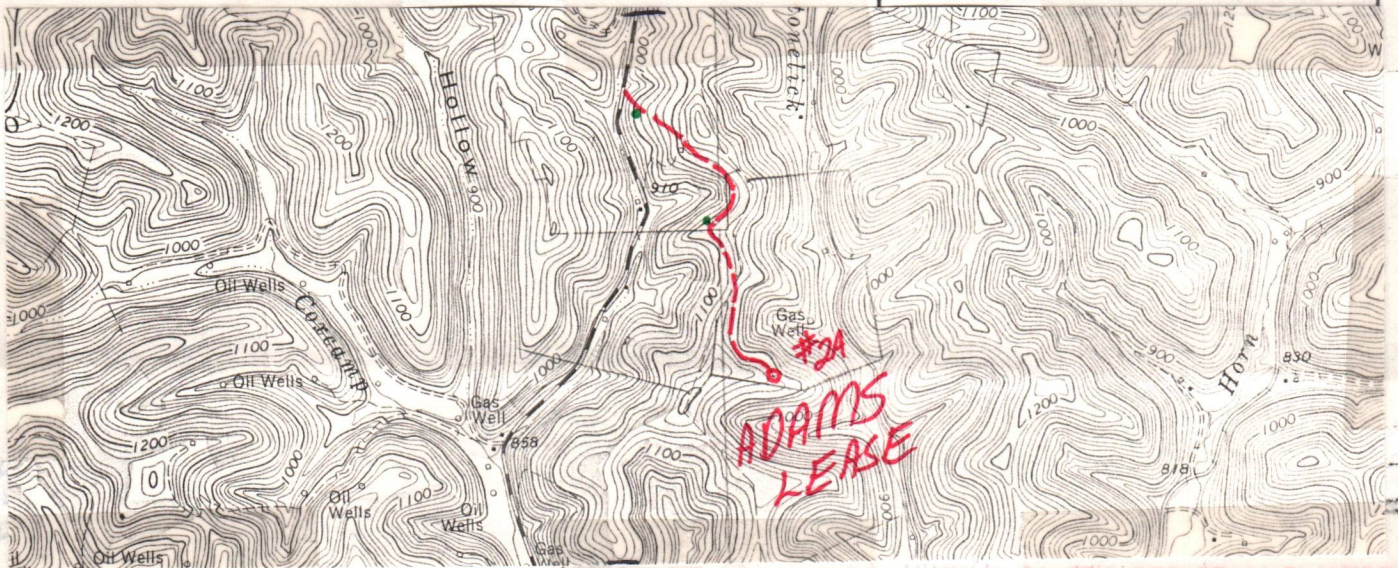


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE AUBURN 7.5'

LEGEND

Well Site ⊕

Access Road ———

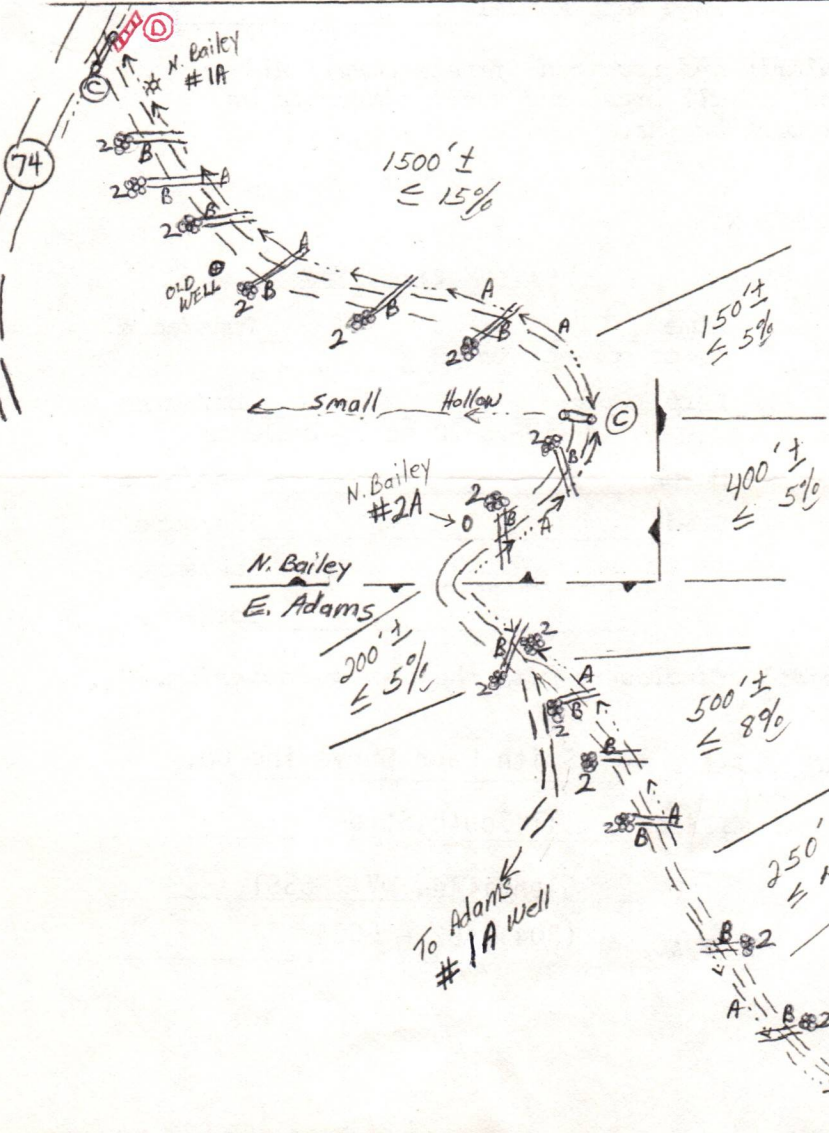


WELL SITE PLAN

etch to include well location, existing access road, roads to be constructed, wells, filling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ————	Diversion ————
Road = = = = =	Spring ⊙ →
Existing fence — x — x —	Wet spot ⊕
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ —
Open ditch — ···· —	Waterway < = = = =



Note: (1) Well Location Farm #2A on the N. Bailey SCD. was Approved By X. KNIGHT ON 7/27/83.

(2) The same Rd. To N. Bailey #2A Well will Be Used as Access for this Location.

Note: Topsoil will be stockpile for use in reclamation work

12/01/2023