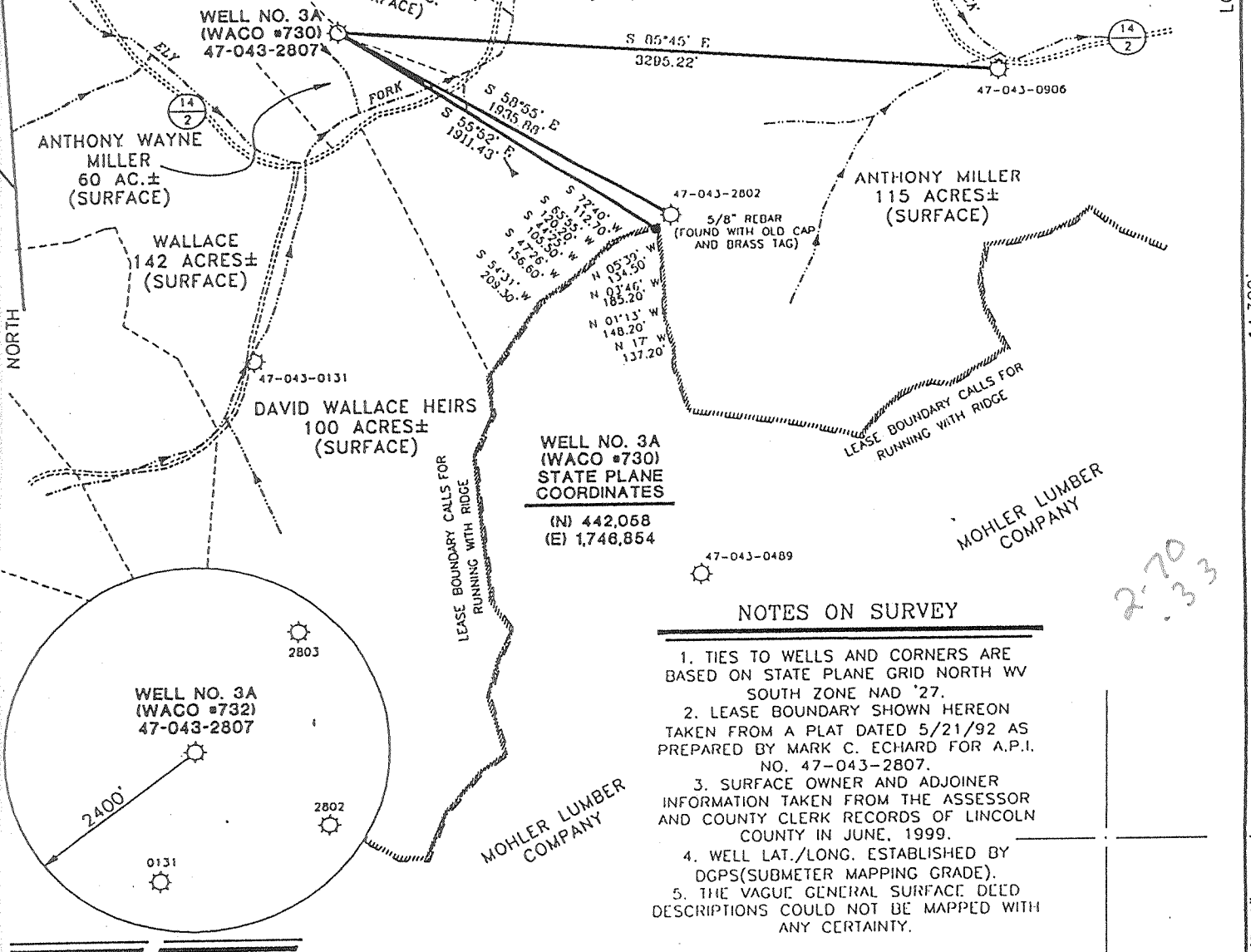


# LINCOLN MINERAL COMPANY LEASE

## 4777 ACRES±

## WELL NO. 3A (WACO #732)

## 47-043-2807

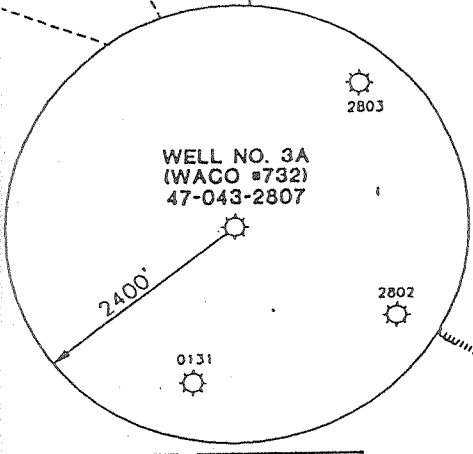


**WELL NO. 3A  
(WACO #730)  
STATE PLANE  
COORDINATES**

(N) 442,058  
(E) 1,748,854

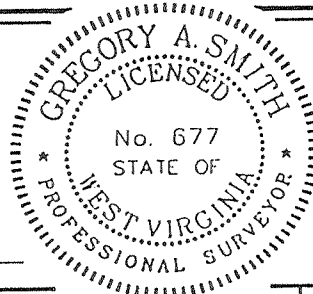
### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 5/21/92 AS PREPARED BY MARK C. ECHARD FOR A.P.I. NO. 47-043-2807.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LINCOLN COUNTY IN JUNE, 1999.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
5. THE VAGUE GENERAL SURFACE DEED DESCRIPTIONS COULD NOT BE MAPPED WITH ANY CERTAINTY.



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 ENERGY.

P.S. 677 Gregory A. Smith



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

DATE JULY 13, 19 99

OPERATOR'S WELL NO. L.M.Co. #3A (WACO #732)


API WELL NO. 47-043-2807

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3877PA3 (35-71)

PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 741' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION : ELEVATION 1750' WATERSHED ELY FORK OF COBBS CREEK

DISTRICT WASHINGTON COUNTY LINCOLN QUADRANGLE GRIFFITHSVILLE 7.5'

SURFACE OWNER ANTHONY WAYNE MILLER ACREAGE 60

ROYALTY OWNER BLAZER ENERGY CORPORATION LEASE ACREAGE 4777

PROPOSED WORK : LEASE NO. 091353

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TEMPORARY PLUG BACK OF TARGET FORMATION BEREA

DEVONIAN SHALE, RECOMPLETE BIG INJUN & BEREA THEN COMINGLE ALL PRODUCTION ZONES ESTIMATED DEPTH 2350'

WELL OPERATOR BLAZER ENERGY CORPORATION DESIGNATED AGENT RICHARD SMELTZER

ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

DEEP WELL

AUG 30 1999

LONGITUDE 81°52'50"

14.500

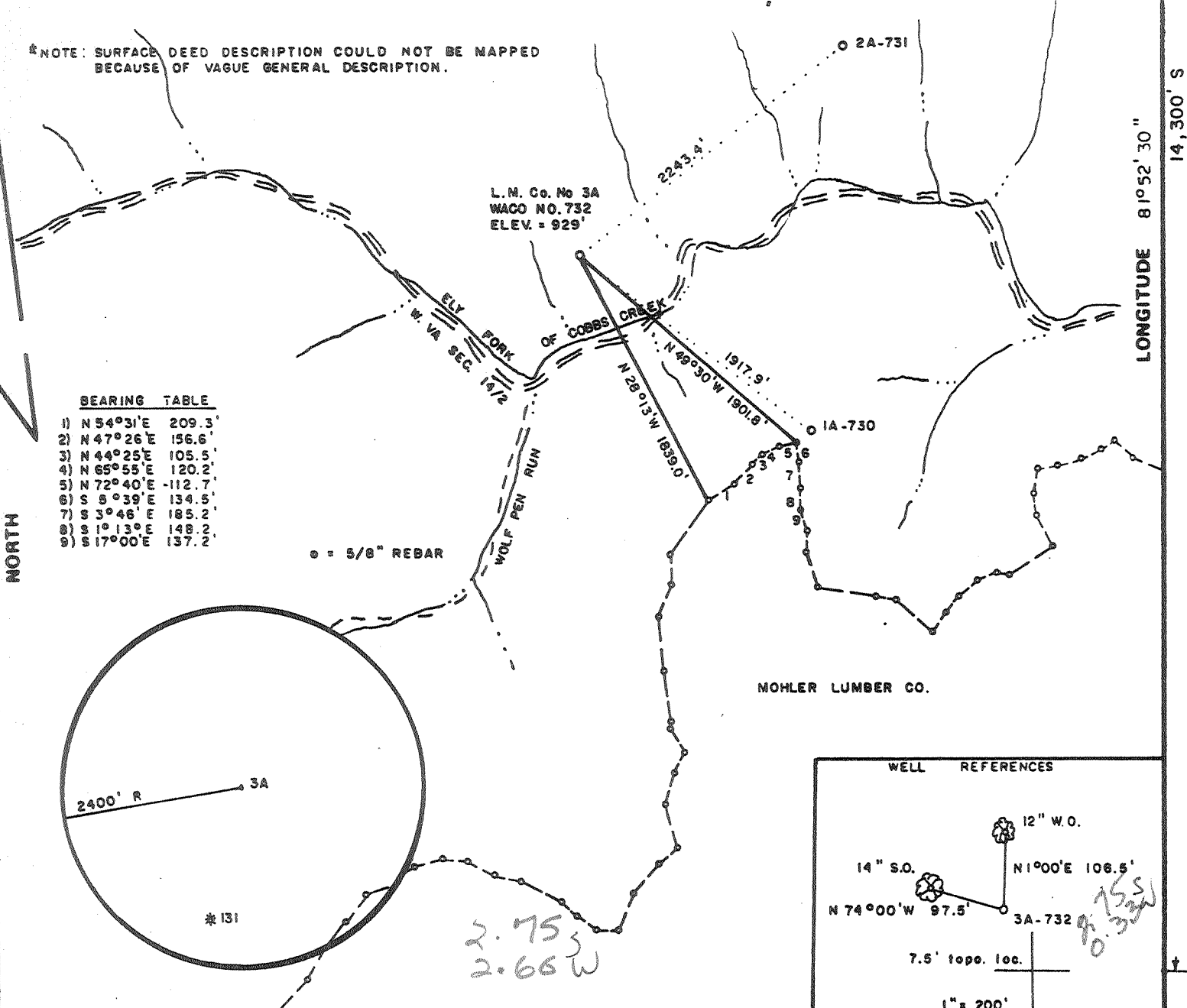
LAT. 38°12'38.6"

COUNTY NAME LIN

PERMIT 2807-F

WACO NO. 732

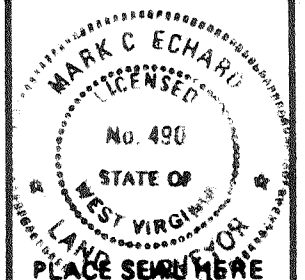
\*NOTE: SURFACE DEED DESCRIPTION COULD NOT BE MAPPED BECAUSE OF VAGUE GENERAL DESCRIPTION.



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION JOP OF KNOB SOUTH SIDE OF LEASE ELEV. = 1075'

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.

*Mark C. Echard*  
(SIGNED) MARK C. ECHARD  
R.P.E. \_\_\_\_\_ L.L.S. 490



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



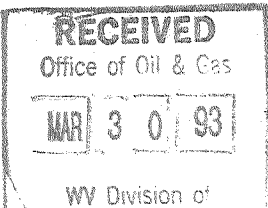
DATE MAY 21, 19 92  
OPERATOR'S WELL NO. L.M. Co. No. 3A  
API WELL NO. WACO NO. 732  
47 - 043 - 2807  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 929' WATER SHED ELY FORK OF COBBS CREEK  
DISTRICT WASHINGTON COUNTY LINCOLN  
QUADRANGLE GRIFFITHSVILLE 7.5' *Madison NC*  
SURFACE OWNER CLOVIS MANN ACREAGE 60  
OIL & GAS ROYALTY OWNER WACO OIL & GAS CO. INC. LEASE ACREAGE 3000 OF 4777  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL  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 MARCELLUS ESTIMATED DEPTH 4500'  
WELL OPERATOR WACO OIL & GAS CO. INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY  
ADDRESS P.O. BOX 397 *933* ADDRESS PO BOX 397  
GLENVILLE, W. VA. 26351 GLENVILLE, W. VA. 26351

NOV 6 1992

DEEP WELL info: Julian Madison (236)



State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Well Operator's Report of Well Work

Well name: LOGAN CONF. FREEWILL BPST Operator Well No.: L.M.CO#3A-W-732

LOCATION: Elevation: 929.00      Quadrangle: GRIFFITHSVILLE

District: WASHINGTON      County: LINCOLN  
 Latitude: 14300 Feet South of 38 Deg. 15Min. 0 Sec.  
 Longitude 1750 Feet West of 81 Deg. 52 Min. 30 Sec.

Company: WACO OIL & GAS CO., INC.  
 1297 N. LEWIS ST.  
 GLENVILLE, WV 26351-0000

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	160	160	C.T.S.
8-5/8"	1,660	1,660	C.T.S.
4-1/2"		4,521	393 Sk.

Agent: STEPHEN E. HOLLOWAY

Inspector: RICHARD CAMPBELL  
 Permit Issued: 11/06/92  
 Well work Commenced: 11/08/92  
 Well work Completed: 11/13/92  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 4587'  
 Fresh water depths (ft) \_\_\_\_\_  
                                   83'  
 Salt water depths (ft) \_\_\_\_\_  
                                   614', 1480'  
 Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): 113'-116, 243'-246'

OPEN FLOW DATA

Producing formation Devonian Shale      Pay zone depth (ft) see treatment  
 Gas: Initial open flow N/A MCF/d      Oil: Initial open flow N/A Bbl/d  
       Final open flow 173 MCF/d      Final open flow None Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 350 psig (surface pressure) after 48 Hours

Second producing formation \_\_\_\_\_      Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d      Oil: Initial open flow \_\_\_\_\_ Bbl/d  
       Final open flow \_\_\_\_\_ MCF/d      Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: WACO OIL & GAS CO., INC. *Daniel R. Chapman*

By: Daniel R. Chapman, Geologist  
 Date: January 29, 1993

Reviewed TM6  
 Recorded \_\_\_\_\_

1st stage: Rhinestreet (4468-4343) 1000 gal 15% HCL, 30 ton CO<sub>2</sub>, 839 mcf N<sub>2</sub>  
 2nd stage: Lower Huron (3954-3836) 665 gal 15% HCL, 30 ton CO<sub>2</sub>, 875 mcf N<sub>2</sub>  
 3rdstage: Upper Huron (3773-3529) 665 gal 15% HCL, 33 ton CO<sub>2</sub>, 986 mcf N<sub>2</sub>  
 4th stage: Shale (3393-2797) 665 gal 15% HCL, 30 ton CO<sub>2</sub>, 880 mcf N<sub>2</sub>

Sand, Shale	0	113	1/2" stream @ 83'
Coal	113	116	1-1/2" stream @ 614'
Sand, Shale	116	243	2" stream @ 1480'
Coal	243	246	
Sand, Shale	246	1624	
Big Lime	1624	1713	
Big Injun	1713	1860	
Shale	1860	1879	
Squaw	1879	1907	
Shale	1907	2345	
Berea	2345	2366	
Shale	2366	3527	
<u>Upper Huron</u>	3527	3812	
<u>Lower Huron</u>	3812	3952	
Shale	3952	4311	
Rhinestreet	4311	4521	
Marcellus	4521	4567	
Onondaga	4567	4587	T. D.

OCT 2 1 92

043-2807

Issued 11/06/92

Page of

Expires 11/06/94

Permitting Office of Oil & Gas STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

- 1) Well Operator: Waco Oil and Gas Company, Inc. 51800 (8) 395
2) Operator's Well Number: L. M. Co. #3-A/Waco #732 3) Elevation: 929
4) Well type: (a) Oil or Gas X/
(b) If Gas: Production X/ Underground Storage Deep Shallow
5) Proposed Target Formation(s): Marcellus Shale
6) Proposed Total Depth: 4,600 feet
7) Approximate fresh water strata depths: 35'
8) Approximate salt water depths: 1350'
9) Approximate coal seam depths: N/A
10) Does land contain coal seams tributary to active mine? Yes No X/
11) Proposed Well Work: Drill and stimulate new well
12)

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond Agent

2602  
Office of Oil & Gas

- 1) Date: May 26, 1992
- 2) Operator's well number  
Waco 732-L. M. Co. 3A
- 3) API Well No: 47 - 043 - 2807  
State - County - Permit

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

- |  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Logan Conference</u><br/>Address <u>Freewill Baptist</u><br/><u>211 Fowler Branch</u></p> <p>(b) Name <u>Ferrelsburg, WV 25524</u><br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____<br/>Address <u>N/A</u></p> <p>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Rick Campbell</u><br/>Address <u>P. O. Box 163</u><br/><u>Hamlin, WV 25523</u><br/>Telephone (304) - <u>824-5828</u></p>  | <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u><br/>Address _____</p>   |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 7 on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Waco Oil and Gas Company, Inc.  
By: Stephen E. Holloway  
Its: Agent  
Address P. O. Box 397  
Glenville, WV 26351  
Telephone (304) 462-5347

Subscribed and sworn before me this 26th day of May, 1992

Russell L. Tallhamer

Commissioner  
Notary Public

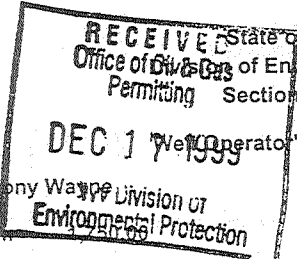
My commission expires September 9th, 2001

WR-35

23-Aug-99

API # 47- 47-043-02807 F

K



State of West Virginia  
Office of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Miller, Anthony Wayne Operator Well No.: Lincoln Mineral 3A

LOCATION: Elevation: \_\_\_\_\_ Quadrangle: Griffithsville

District: Washington

County: Lincoln

Latitude:	14300	Feet South of	38	Deg.	15	0
Longitude:	1750	Feet West of	81	Deg.	52	30

Company: BLAZER ENERGY CORPORATION  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25328

Agent: Richard D. Smeltzer

Inspector: Dave Belcher

Permit Issued: 8/23/99

Well work commenced: 10/18/99

Well work completed: 11/18/99

Verbal Plugging \_\_\_\_\_

Permission granted on: \_\_\_\_\_

Rotary Rig  Cable Rig \_\_\_\_\_

Total Depth 4587 feet

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area? \_\_\_\_\_

Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4 1/2"		4521'	393 sx

OPEN FLOW DATA

Producing formation _____	Pay Zone Depth (ft): _____	See Attach for details
Gas: Initial open flow _____ MCF/d	Oil: Initial open flow _____ Bbl/d	
Final open flow: 997 MCF/d	Final open flow: _____	
Time of open flow between initial and final tests _____	Hours _____	
Static rock pressure 240 psig (surface pressure) after _____	Hours _____	
Second producing formation _____	Pay Zone Depth (ft): _____	
Gas: Initial open flow _____ MCF/d	Oil: Initial open flow _____ Bbl/d	
Final open flow: _____ MCF/d	Final open flow: _____	
Time of open flow between initial and final tests _____	Hours _____	
Static rock pressure _____ psig (surface pressure) after _____	Hours _____	

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BLAZER ENERGY CORPORATION

By: Richard D. Smeltzer  
Date: 12/15/99

LIN 2807 F

FEB 25 2000

**EASTERN STATES OIL & GAS, INC.**  
**WR-35 COMPLETION REPORT - Attachment**  
**Well Treatment Summary**

Well: Lincoln Mineral 3A

API# 47-043-02807 F

Date	11-01-99	11/15/99				
Type Frac Acid, N <sub>2</sub> , Foam, Water	75 Q Foam	75 Q Foam				
Zone Treated	Berea	Big Injun				
# Perfs	21	25				
From - To:	2348' - 2358'	1882 - 1894				
BD Pressure @ psi	1829	647				
ATP psi	2287	1729				
Avg. Rate, B=B/M, S= SCF/M	20 B foam	20 B foam				
Max. Treat Press psi	2429	1807				
ISIP psi	1684	415				
Frac Gradient	1.15	.65				
10 min S-I Pressure	1471	1410				
Material Volume						
Sand-sks	349	477				
Water-bbl	165	177				
SCF N <sub>2</sub>	247,000	231,000				
Acid-gal	500 gal 15.4%	500 gal 14.6%				
NOTES:						

**TOP      BOTTOM      FORMATION      REMARKS**

Previously reported