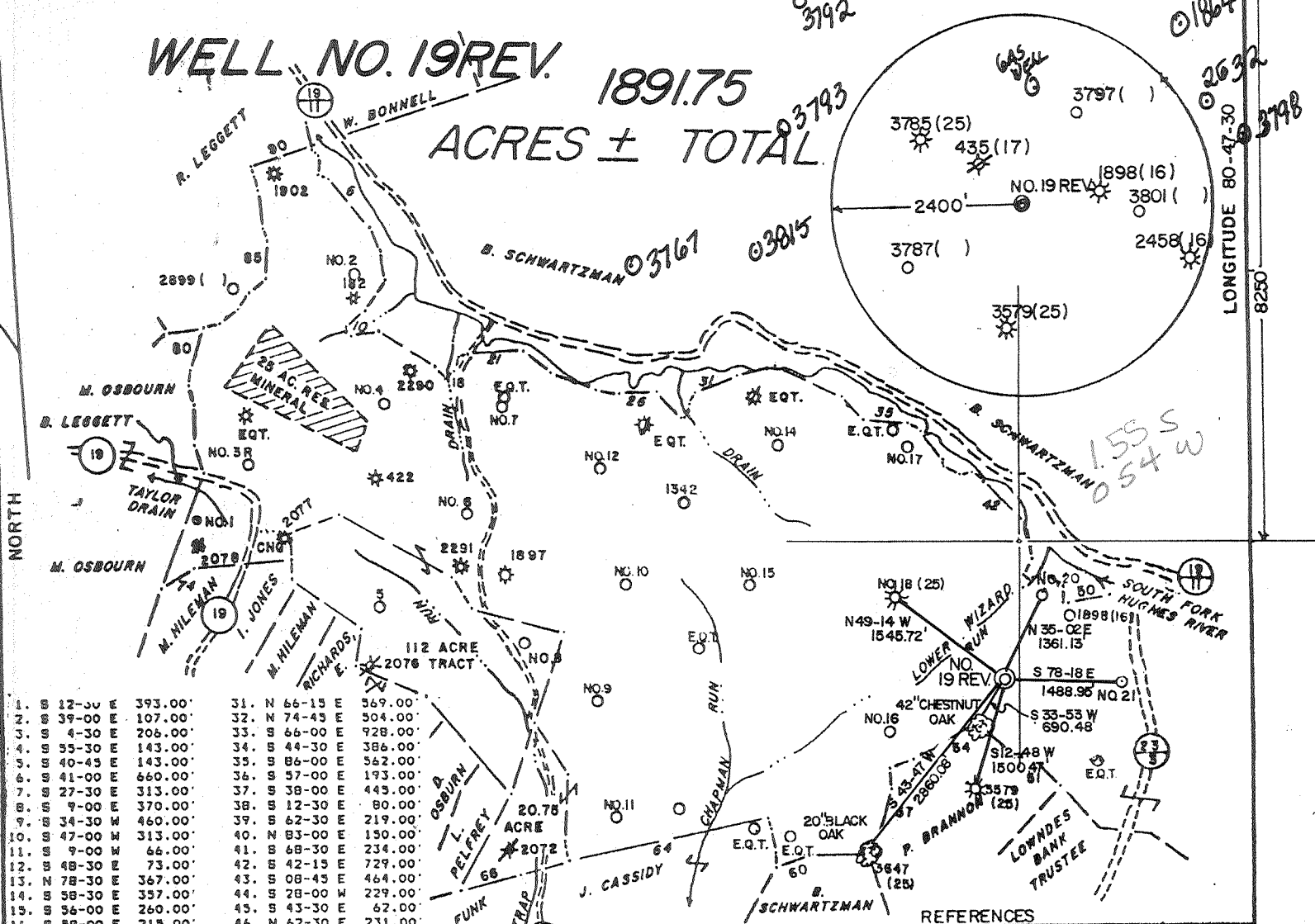


Jan 8/2/90

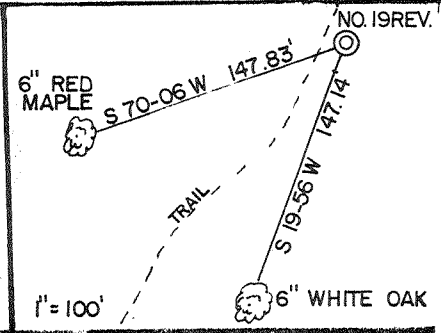
BLAUSER/W.B. MAXWELL LEASE 03795

WELL NO. 19 REV. 1891.75 ACRES ± TOTAL



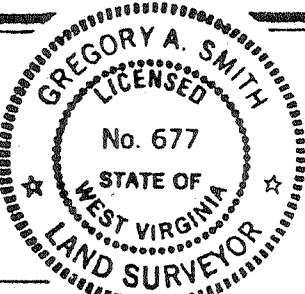
1. S 12-30 E 393.00'	31. N 66-15 E 569.00'
2. S 39-00 E 107.00'	32. N 74-45 E 504.00'
3. S 4-30 E 206.00'	33. S 66-00 E 928.00'
4. S 55-30 E 143.00'	34. S 44-30 E 386.00'
5. S 40-45 E 143.00'	35. S 86-00 E 562.00'
6. S 41-00 E 660.00'	36. S 57-00 E 193.00'
7. S 27-30 E 313.00'	37. S 38-00 E 443.00'
8. S 9-00 E 370.00'	38. S 12-30 E 80.00'
9. S 34-30 W 460.00'	39. S 62-30 E 219.00'
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14. S 58-30 E 357.00'	44. S 28-00 W 229.00'
15. S 56-00 E 260.00'	45. S 43-30 E 67.00'
16. S 59-00 E 215.00'	46. N 62-30 E 231.00'
17. S 41-30 E 198.00'	47. N 48-45 E 300.00'
18. N 48-30 E 132.00'	48. S 01-30 E 192.00'
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21. N 82-15 E 660.00'	51. N 41-00 W 448.80'
22. S 77-15 E 1221.00'	52. N 67-05 W 374.22'
23. S 52-30 E 388.00'	53. N 49-00 W 528.00'
24. S 69-30 E 610.00'	54. S 60-15 W 945.78'
25. S 81-00 E 295.00'	55. S 67-15 W 297.00'
26. N 88-15 E 470.00'	56. S 04-30 E 257.40'
27. S 43-15 E 437.00'	57. S 15-15 W 613.80'
28. N 77-30 E 102.00'	58. S 30-00 W 294.10'
29. N 4-00 E 144.00'	59. S 89-00 W 745.14'
30. N 25-30 E 153.00'	60. S 70-35 W 453.75'

61. N 8-00 W 160.38'	76. N 17-00 W 371.25'
62. N 8-01 W 315.81'	77. N 00-02 W 532.13'
63. N 17-35 W 156.75'	78. N 15-40 W 198.00'
64. S 77-30 W 2557.50'	79. N 09-40 E 201.30'
65. S 76-00 W 610.50'	80. N 17-47 E 557.70'
66. S 76-00 W 792.00'	81. N 77-55 E 203.94'
67. N 32-00 E 1435.50'	82. N 52-00 E 308.22'
68. N 44-00 W 1650.00'	83. N 32-50 E 234.96'
69. N 70-00 W 924.00'	84. N 52-45 E 269.28'
70. N 05-00 E 453.75'	85. N 01-36 E 463.98'
71. N 58-00 W 1056.00'	86. N 16-50 W 169.13'
72. N 01-00 W 198.00'	87. N 08-10 W 475.20'
73. S 85-00 W 1240.97'	88. N 13-45 W 219.12'
74. S 57-46 W 408.40'	89. N 18-00 W 132.00'
75. N 20-21 E 1582.02'	90. N 72-34 E 841.50'



SLS 4445 2-78 W Holdover Case

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.



L.L.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE MAY 1, 19 90  
 OPERATORS WELL NO. BLAUSER/W.B. MAXWELL  
 WELL NO. 19 REVISED  
 WVDODD00119  
 API WELL NO. 47 - 017 - 3796 Rev  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2082 (29-44)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1291' SCALE 1" = 2000'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1191' WATERSHED UPPER WIZZARD RUN  
 DISTRICT SOUTH WEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'  
 SURFACE OWNER BEATRICE SCHWARTZMAN ACREAGE P/O 1255.4 OF 4583.2  
 ROYALTY OWNER W.B. MAXWELL HEIRS et.al. LEASE ACREAGE 1699 OF 1891.75  
 PROPOSED WORK: LEASE NO. WV01918-1  
 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) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5310'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI  
 ADDRESS BOX N GLENVILLE, WV. 26351 ADDRESS 501 56th ST. CHARLESTON, WV. 25304

COUNTY NAME PERMIT

575

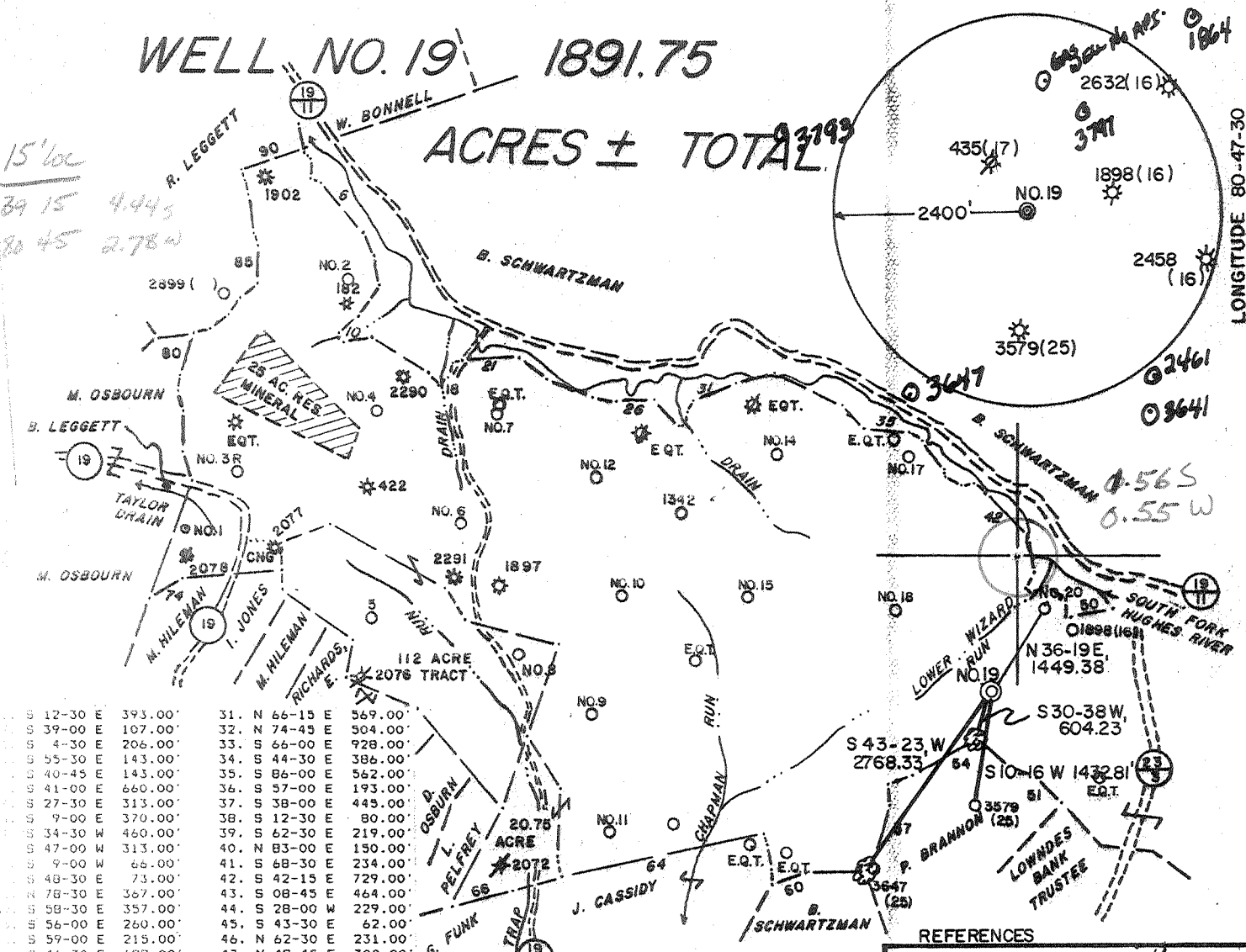
*Jan 31/90*

# BLAUSER/W.B. MAXWELL LEASE

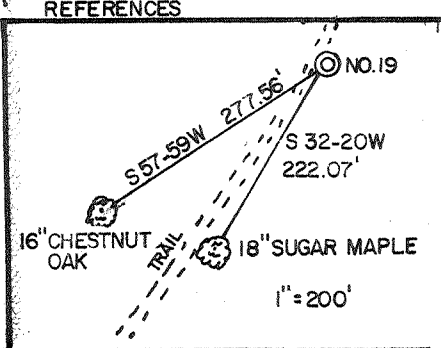
## WELL NO. 19 1891.75

### ACRES ± TOTAL 1891.75

*15' loc  
39 15 4.443  
30 45 2.784*

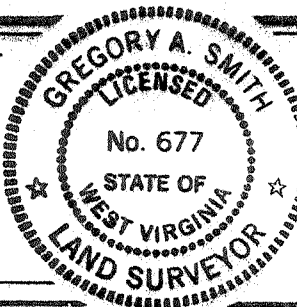


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S 41-00 E 660.00'	36. S 57-00 E 193.00'	66. S 74-00 W 792.00'	81. N 77-55 E 203.94'
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S 58-30 E 357.00'	44. S 28-00 W 229.00'	74. S 57-46 W 488.40'	89. N 18-00 W 132.00'
S 56-00 E 260.00'	45. S 43-30 E 62.00'	75. N 20-21 E 1582.02'	90. N 72-34 E 841.50'
S 59-00 E 215.00'	46. N 62-30 E 231.00'		
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G.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 2, 19 90  
 OPERATORS WELL NO BLAUSER/W.B. MAXWELL  
 WELL NO. 19  
 WVDOD00119  
 API WELL NO. 47 - 017 - 3796  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2082 (29-44)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1291' SCALE 1" = 2000'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

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

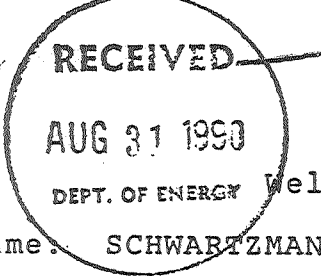
LOCATION: ELEVATION 1204' WATERSHED UPPER WIZZARD RUN DISTRICT SOUTH WEST 7 COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER BEATRICE SCHWARTZMAN ACREAGE P/O 1255.4 OF 4583.2  
 ROYALTY OWNER W.B. MAXWELL HEIRS et al. LEASE ACREAGE 1699 OF 1891.75

PROPOSED WORK: 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) \_\_\_\_\_ TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5290'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI  
 ADDRESS BOX N GLENVILLE, WV. 26351 ADDRESS 501 56th ST. CHARLESTON, WV. 25304



State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

DEPT. OF ENERGY Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: BLAU/MAXWELL#19 W.B.

LOCATION: Elevation: <sup>1191</sup>~~1204.00~~ Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 8290 Feet South of 39 Deg. 12Min. 30 Sec.  
Longitude 2960 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C  
P. O. BOX N  
GLENVILLE, WV 26351-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 03/07/90  
Well work Commenced: 08/03/90  
Well work Completed: 08/16/90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5317'  
Fresh water depths (ft) 185', 220'  
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1347.40'	1347.40'	C.T.S.
4-1/2"	5296.55'	5296.55'	316
1-1/2"	---	5090.90'	---

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

OPEN FLOW DATA

(Commingled)

Producing formation Alexander, Benson/3rd Riley Pay zone depth (ft) 5200'-4774.  
Gas: Initial open flow 624 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 430 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 15 Hours  
Static rock Pressure 940 psig (surface pressure) after 24 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: Rich Heffelfinger  
EASTERN AMERICAN ENERGY CORP.  
Rich Heffelfinger  
By: Vice President - Regional Operations  
Date: August 23, 1990

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

2-STAGE FOAM FRAC

Stage 1: Alexander - 14 holes (5200'-5132.5') Breakdown 1600 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 70,000 lbs 20/40 sand, 500 gals 15% HCl, 531,000 scf of N<sub>2</sub>

Stage 2: Benson/3rd Riley - 16 holes (4862'-4774.5') Breakdown 2300 psi, 70 Quality foam, pad, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 60,000 lbs 20/40 sand, 500 gals 15% HCl, 749,000 scf of 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
Shale			0	35	1/2" stream water @ 185'
Sandy Shale			35	70	1" stream water @ 220'
Sand			70	120	
Red Rock and Shale			120	160	
Sand			160	230	
Sandy Shale			230	415	
Sand			415	425	
Sandy Shale			425	530	
Sand			530	540	
Sandy Shale			540	658	
Sand			658	725	
Sandy Shale and Red Rock			725	755	
Sand			755	803	
Red Rock			803	875	
Sand			875	890	
Sandy Shale			890	950	
Red Rock			950	1050	
Sand, Shale and Sandy Shale			1050	1884	
Big Lime			1884	1950	
Big Injun			1950	2028	
Sandy Shale and Shale			2028	2174	
Weir			2174	2296	
Shale			2296	2376	
Berea			2376	2382	
Shale with Minor Sand			2382	3234	
Warren			3234	3287	
Shale with Minor Sand			3287	4425	
Riley			4425	4470	
Sandy Shale and Shale			4470	4768	
3rd Riley			4768	4796	
Shale and Sandy Shale			4796	4858	
Benson			4858	4864	
Shale and Sandy Shale			4864	5104	
Alexander			5104	5207	
Shale			5207	5317 T.D.	

GAS CHECKS:

1847' - No show  
 1970' - No show  
 2154' - 40/10 thru 2" w/water  
 2369' - 40/10 thru 2" w/water  
 2707' - 42/10 thru 2" w/water  
 3198' - 42/10 thru 2" w/water  
 3412' - 42/10 thru 2" w/water  
 3905' - 40/10 thru 2" w/water  
 4308' - 42/10 thru 2" w/water  
 4614' - 40/10 thru 2" w/water  
 4828' - 40/10 thru 2" w/water  
 5011' - 50/10 thru 2" w/water  
 5196' - 40/10 thru 2" w/water  
 1 Tbg. down - 40/10 thru 2" w/water  
 D.C. - 14/10 thru 2" w/water

(Attach separate sheets as necessary)

10/188

017 3796  
Issued 3/7/90

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

Expires 3/7/92

- 1) Well Operator: Eastern American Energy Corporation <sup>259</sup> 14980 (7) 525
- 2) Operator's Well Number: Blausen/W.B. Maxwell #19 3) Elevation: 1204'  
WVDOD001119
- 4) Well type: (a) Oil \_\_\_/ or Gas XX/  
(b) If Gas: Production XX/ Underground Storage \_\_\_/  
Deep \_\_\_/ Shallow XX/  
<sup>439</sup>
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5290 feet
- 7) Approximate fresh water strata depths: 224,954 224' 407,577
- 8) Approximate salt water depths: None 1464'
- 9) Approximate coal seam depths: 275-278
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_/ No XX/
- 11) Proposed Well Work: Drill and complete new well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 "	F-25	37.5	30	-----	
Fresh Water	8-5/8"	J-55	20.0	1355	1355	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2, 2
Intermediate						
Production	4-1/2"	J-55	10.5	5205	5205	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

**RECEIVED**  
FEB 14 1990

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only DEPARTMENT OF ENERGY

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 50 Surety  Agent  
 (Type)

FEB 14 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: January 22, 1990  
2) Operator's well number  
Blauser/W.B. Maxwell #19 - WVDOD001119  
3) API Well No: 47 - 017 - 3796  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Beatrice Schwartzman  
Address 2520 30th Street, N.W.  
Washington, DC 20008
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name None  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood
  - Address Rt. 2, Box 135  
Salem, WV 26426
  - Telephone (304)-782-1043
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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  
XX 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 11 on the above named parties, by:

- \_\_\_\_ Personal Service (Affidavit attached)
- XX 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 Eastern American Energy Corporation  
By: John M. Paletti  
Its: Designated Agent  
Address P.O. Box N  
Glenville, WV 26351  
Telephone (304) 462-5781

Subscribed and sworn before me this 30th day of January, 19 90

Jo Louise Rowe Notary Public  
My commission expires July 2, 1996