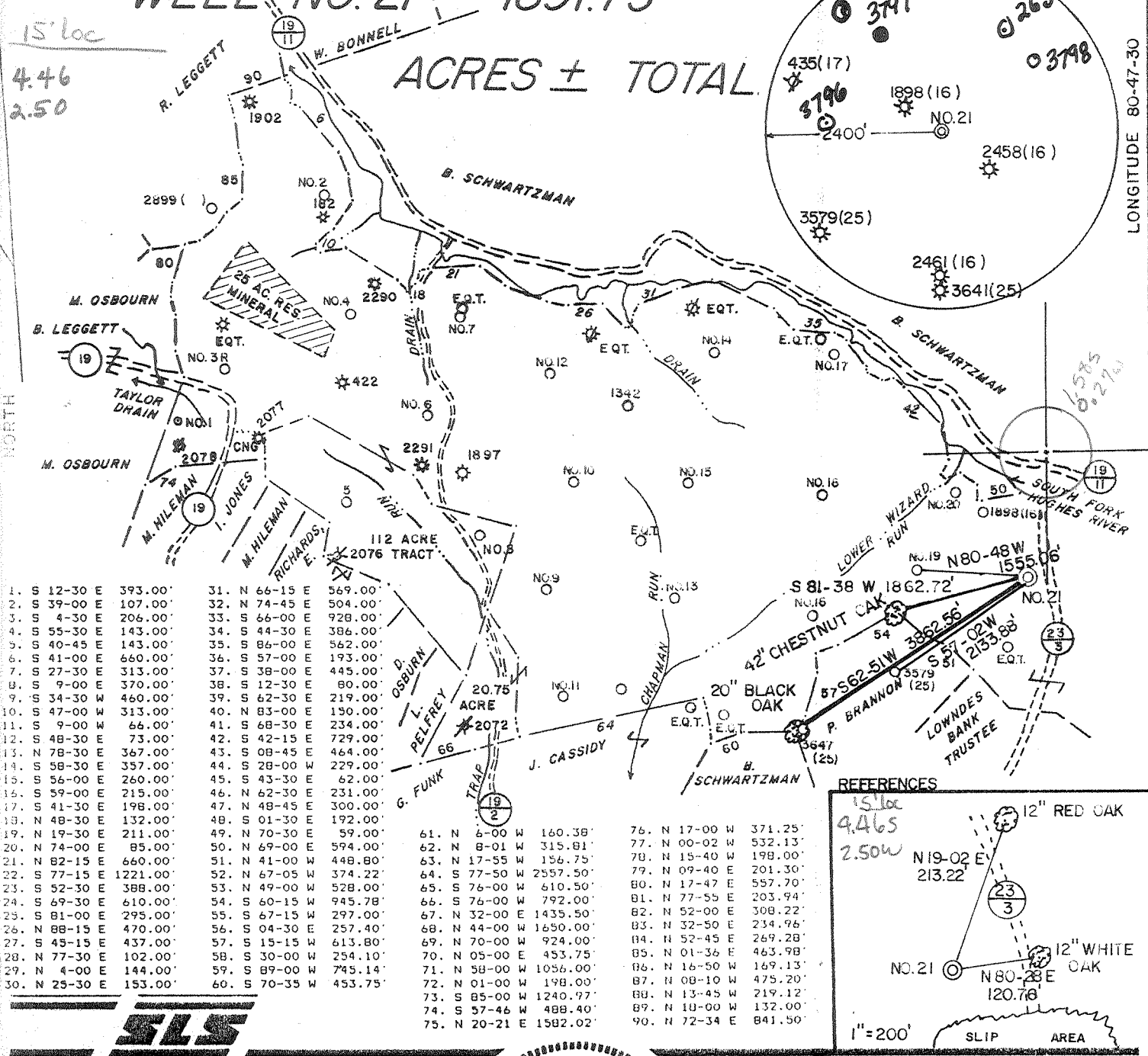


BLAUSER/W.B. MAXWELL LEASE 090

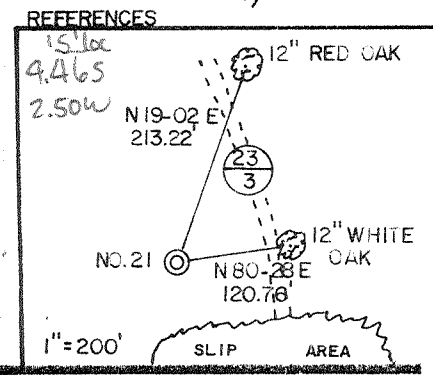
WELL NO. 21 1891.75

ACRES ± TOTAL

15' loc
4.46
2.50

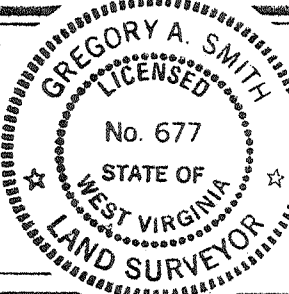


1. S 12-30 E 393.00'	31. N 66-15 E 569.00'	61. N 6-00 W 160.38'	76. N 17-00 W 371.25'
2. S 39-00 E 107.00'	32. N 74-45 E 504.00'	62. N 8-01 W 315.81'	77. N 00-02 W 532.13'
3. S 4-30 E 206.00'	33. S 66-00 E 728.00'	63. N 17-55 W 156.75'	78. N 15-40 W 198.00'
4. S 55-30 E 143.00'	34. S 44-30 E 386.00'	64. S 77-50 W 2557.50'	79. N 09-40 E 201.30'
5. S 40-45 E 143.00'	35. S 86-00 E 562.00'	65. S 76-00 W 610.50'	80. N 17-47 E 557.70'
6. S 41-00 E 660.00'	36. S 57-00 E 193.00'	66. S 76-00 W 792.00'	81. N 77-55 E 203.94'
7. S 27-30 E 313.00'	37. S 38-00 E 445.00'	67. N 32-00 E 1435.50'	82. N 52-00 E 308.22'
8. S 9-00 E 370.00'	38. S 12-30 E 80.00'	68. N 44-00 W 1650.00'	83. N 32-50 E 234.96'
9. S 34-30 W 460.00'	39. S 62-30 E 219.00'	69. N 70-00 W 924.00'	84. N 52-45 E 269.28'
10. S 47-00 W 313.00'	40. N 83-00 E 150.00'	70. N 05-00 E 453.75'	85. N 01-36 E 463.98'
11. S 9-00 W 66.00'	41. S 68-30 E 234.00'	71. N 58-00 W 1056.00'	86. N 16-50 W 169.13'
12. S 48-30 E 73.00'	42. S 42-15 E 729.00'	72. N 01-00 W 198.00'	87. N 08-10 W 475.20'
13. N 78-30 E 367.00'	43. S 08-45 E 464.00'	73. S 85-00 W 1240.97'	88. N 13-45 W 219.12'
14. S 58-30 E 357.00'	44. S 28-00 W 229.00'	74. S 57-46 W 488.40'	89. N 10-00 E 132.00'
15. 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'
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'		
19. N 19-30 E 211.00'	49. N 70-30 E 59.00'		
20. N 74-00 E 85.00'	50. N 69-00 E 594.00'		
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 49-15 E 437.00'	57. S 15-15 W 613.80'		
28. N 77-30 E 102.00'	58. S 30-00 W 254.10'		
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'		



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 JANUARY 2, 19 90

OPERATORS WELL NO BLAUSER/W.B. MAXWELL

WELL NO. 21
WVDOD00121

API WELL NO. 47 - 017 - 3801

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 X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1063' WATERSHED UPPER WIZARD 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. WVO1918- +

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5150'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. 219 DESIGNATED AGENT JOHN M. PALETTI

ADDRESS BOX N GLENVILLE, WV. 26351 ADDRESS 501 56th ST. CHARLESTON, WV. 25304

MAR 22 1990

6-6 Straight Fork-Bluestone Creek (132)

RECEIVED
AUG 22 1990
Permitting
Oil and Gas Section

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

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: BLAU/MAXWELL#21 W.B.

LOCATION: Elevation: 1063.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 8380 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 1430 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: 03/19/90
Well work Commenced: 05/08/90
Well work Completed: 05/14/90
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 5,197'
Fresh water depths (ft) 298'

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8-5/8"	1246.80'	1246.80'	C.T.S.
4-1/2"	5173.80'	5173.80'	747
1-1/2"	---	4933.30'	---

OPEN FLOW DATA

Alexander/Benson/3rd Riley/Riley;
Producing formation Speechley/Warren (Commingled) Pay zone depth (ft) 5051'-3118.5'
Gas: Initial open flow 1061 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 570 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1275 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.

By: Rich Heffelfinger, Vice President - Regional Operations
Date: August 13, 1990

AUG 24 1990

(REVERSE)

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

4-STAGE FOAM FRAC

Stage 1: Alexander - 14 holes (5051'-4982.5') Breakdown, 3550 psi, 65 Quality foam, 30 lbs/1000 gals Gel, 70,000 lbs 20/40 sand, 500 gals 15% HCl, 611,200 scf of N₂

Stage 2: Benson/3rd Riley - 12 holes (4710'-4624.5') Breakdown 1610 psi, 65 Quality foam, 30 lbs/1000 gals Gel, 50,000 lbs 20/40 sand, 500 gals 15% HCl, 574,000 scf of N₂

Stage 3: Riley - 20 holes (4304'-4278') Breakdown 1610 psi, 70 quality foam, 30 lbs/1000 gals Gel, 44,900 lbs 20/40 sand, 500 gals 15% HCl, 681,500 scf of N₂

Stage 4: Speechley/Warren - 14 holes (3234'-3118.5') Breakdown 1530 psi, 70 Quality foam, 30 lbs/1000 gals Gel, 42,500 lbs 20/40 sand, 650 gals 28% HCl, 453,300 scf of 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
Red Clay			0	12	60' damp hole
Shale			12	24	298' 1/2" Water
Sand and Shale			24	387	
Red Rock			387	399	
White Sand			399	411	<u>GAS CHECKS:</u>
Red Rock			411	615	1703' - No show
Sand and Shale			615	670	1955' - No show
Red Rock and Shale			670	1045	2205' - No show
Sand and Shale			1045	1130	2485' - No show
Shale and Red Rock			1130	1709	2701' - No show
Little Lime			1709	1718	3015' - No show
Sand and Shale			1718	1752	3327' - No show
Big Lime			1752	1812	3827' - No show
Big Injun			1812	1882	4200' - No show
Shale w/Trace of Sand			1882	2031	4384' - No show
Weir			2031	2149	4602' - 4/10 thru 1/4" w/water
Shale			2149	2230	4727' - 4/10 thru 1-1/4" w/water
Berea			2230	2236	4853' - 4/10 thru 1" w/water
Shale with Minor Sand			2236	3090	D.C. - 4/10 thru 1" w/water
Warren			3090	3138	T.D. - 4/10 thru 1" w/water
Shale with Minor Sand			3138	4270	
Riley			4270	4327	
Shale with Trace of Sand			4327	4610	
3rd Riley			4610	4649	
Shale			4649	4706	
Benson			4706	4740	
Shale with Sand			4740	4952	
Alexander			4952	5058	
Shale with Minor Sand			5058	5197 T.D.	

(Attach separate sheets as necessary)

1/1/01

017-3501
 Issued 3/19/90
 Expires 3/19/92
 Page 3 of 8

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

- 1) Well Operator: ²⁵⁹ Eastern American Energy Corporation ^{14980 (7) 525}
- 2) Operator's Well Number: Blauser/W.B. Maxwell #21 3) Elevation: 1063'
 WVDOD001121
- 4) Well type: (a) Oil ___/ or Gas XX/
 (b) If Gas: Production XX/ Underground Storage ___/
 Deep 439 Shallow XX/
 439
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5150 feet
- 7) Approximate fresh water strata depths: 83,813 ^{266'}
- 8) Approximate salt water depths: None ^{1323'}
- 9) Approximate coal seam depths: 134-37
- 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	1215	1215	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5065	5065	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

RECEIVED
 FEB 28 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)

RECEIVED
FEB 26 1990

1) Date: January 30, 1990
2) Operator's well number
Blauser/W.B. Maxwell #21 - WVDOD001121
3) API Well No: 47 - 017 - 3801
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 _____
 - (c) Coal Lessee with Declaration
 - Name _____
 - Address _____
- 6) Inspector Mike Underwood
- Address Rt. 2, Box 135
Salem, WV 26426
 - Telephone (304) - 782-1043

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 8 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 *John M. Paletti*
Its: Designated Agent
Address Glenville, WV 26351

Telephone (304) 462-5781

Subscribed and sworn before me this 31st day of January, 1990

Jo Lorraine Lane Notary Public
My commission expires July 2, 1996