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WV Division of  
Environmental Protection

30-Jun-95  
API # 47- 17-04202

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

JUN 30 1995

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: Ashld/Holand 16

LOCATION: Elevation: 878.00 Quadrangle: SMITHBURG

District: WEST UNION County: DODDRIDGE  
Latitude: 7600 Feet South of 29 Deg. 17Min. 30 Sec.  
Longitude 9630 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C  
P. O. BOX 820  
GLENVILLE, WV 26351-0820

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/03/95  
Well work Commenced: 10-03-95  
Well work Completed: 10-08-95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable Rig  
Total Depth (feet) 5083'  
Fresh water depths (ft) 10', 60',  
150', 720'  
Salt water depths (ft) None

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

#### OPEN FLOW DATA

(Commingled)

Producing formation: Alexander, Riley Pay zone depth (ft) 4923'-45'  
Gas: Initial open flow 60 MCF/d Oil: Initial open flow N/A Bbl  
Final open flow 60 MCF/d Final open flow N/A Bbl  
Time of open flow between initial and final tests 15 Hou  
Static rock Pressure 1225 psig (surface pressure) after 24 Hou  
Second producing formation: Gordon Pay zone depth (ft) 2270'-  
Gas: Initial open flow 60 MCF/d Oil: Initial open flow N/A Bbl  
Final open flow 60 MCF/d Final open flow N/A Bbl  
Time of open flow between initial and final tests 15 Hou  
Static rock Pressure 100 psig (surface pressure) after 24 Hou

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATION 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: EASTERN AMERICAN ENERGY CORP.

By: *Robert J. Jenkins*  
Date: 11-27-95

*Senior Drilling  
Supervisor*

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	173'	173'	CTS 105 SXS
8-5/8"	838'	838'	200 SXS
4-1/2"	-----	5035'	700 SXS

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

Stage One: Alexander; 23 holes (4865'-4923'), Fractured w/energized water, 30 lbs gel/1000 gals, 50,000 lbs of 20/40 sand, 500 gals of 15% HCl acid and 90,000 scf of N2.

Stage Two: Riley; 15 holes (4136'-4154'), Fractured w/energized water, 30 lbs gel/1000 gals, 5,000 lbs of 80/100 sand, 40,000 lbs of 20/40 sand, 500 gals of 15% HCl acid and 90,000 scf of N2.

Stage Three: Gordon; 30 holes (2270'-2298'), Broke down w/500 gals of 15% HCl acid.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
1111			0	6	Including indication of all fresh and salt water, coal, oil and gas
sand			6	60	
sand & Shale			60	115	Damp @ 10'
redrock			115	118	2" water @ 60'
sand & Shale			118	128	1/2" water @ 150'
sand			128	130	1/2" water @ 720'
sand & Shale			130	210	Gas Checks:
sand & Shale			210	215	
redrock & Shale			215	223	
sand & Shale			223	310	
redrock			310	344	
sand & Shale			344	350	
redrock			350	360	
sand & Shale			360	415	
redrock & Shale			415	425	
sand & Shale			425	445	
redrock			445	455	
sand & shale			455	705	
redrock			705	764	
sand & Shale			764	705	
redrock & Shale			795	960	
sand			960	1030	
sand & Shale			1030	1072	
sand			1072	1440	
sand & Shale			1440	1480	
Shale			1480	1495	
Little Lime			1495	1527	
big Lime			1527	1630	
Keener			1630	1665	
Big Injun			1665	1700	
sand & Shale			1700	1874	
Weir			1874	1968	
sand & Shale			1968	2060	
Berea			2060	2067	
sand & Shale			2067	2275	
Gordon			2275	2295	
sand & Shale			2295	2974	
Warren			2974	2985	

017 4202

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale	2985	3730	
Balltown	3730	3774	
Sand & Shale	3774	4120	
Riley	4120	4150	
Sand & Shale	4150	4460	
3rd Riley	4460	4470	
Sand & Shale	4470	4580	
Benson	4580	4590	
Sand & Shale	4590	4830	
Alexander	4830	4925	
Shale	4925	5083 TD	



JUN 15 1995

FORM WW-2B Permitting

Office of Oil & Gas STATE OF WEST VIRGINIA

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

20710

017-4602

Issued 07/03/97

PAGE 3 OF 8

Expires 07/03/97

1. Well Operator: Eastern American Energy Corporation  
259 14980 611
2. Operator's Well Number: Ashland/Holland #16 3. Elevation: G.L. = 878'
4. Well type: (a) Oil    / or Gas XX /  
(b) If Gas: Production XX / Undergound Storage    /  
Deep    / Shallow XX /
5. Proposed Target Formation(s): Alexander, Benson, Riley, Balltown  
439
6. Proposed Total Depth: 5067' feet
7. Approximate fresh water strata depths: 60', 65'
8. Approximate salt water depths: 219', 350'
9. Approximate coal seam depths: 201'-202'
10. Does land contain coal seams tributary to active mine? Yes    / No XX /
11. Proposed Well Work:
12. Deepest Red Rock: 588'
13. Wells used to correlate data: Dod-721, Dod-4197, Dod-3786, Dod-3759

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight Per Foot	For Drilling	Left in Well	
Conductor	11-3/4"	F-25	32.0	175'	175'	Fill-Up (cu. ft.) C.T.S. 38CSR-11.3 38CSR1811.2
Fresh Water	8-5/8"	F-25	20.0	800'	800'	C.T.S. 38CSR1811.3 38CSR18 11.2.2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	---	4982'	38CSR18-11.1
Tubing						
Liners						

\* OPTIONAL: Based upon coal or excessive amounts of water being encountered below the 9-5/8" casing.

PACKERS: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths Set \_\_\_\_\_

1148  
30

For Division of Oil and Gas Use Only

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

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WV Division of Environmental Protection

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Form WW2-A JUN 15 1995

(09/87)

File Copy

1) Date: June 12, 1995

2) Operator's well number Ashland/Holland #16

3) API Well No: 47 - 017 - 4202 State - County - Permit

Permitting Office of Oil & Gas

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

6) Inspector Mike Underwood Address Route 2 Box 135 Salem, WV 26426 Telephone (304) -

5) (a) Coal Operator: Name Address (b) Coal Owner(s) with Declaration Name Address (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 X 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 on the above named parties, by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) X 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. Galletta Its: Designated Agent Address P.O. Box 820 Glenville, WV 26351 Telephone (304) 462-5781 Telephone 12th day of June, 1995

Subscribed and sworn before me this 12th day of June, 1995 My commission expires October 10, 2000 MARCH 27, 2001 Notary Public