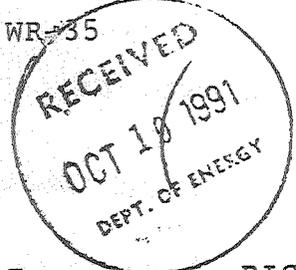




WR-35



17-Jul-91  
API # 47- 17-03898

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

Reviewed: JMB  
Recorded: \_\_\_\_\_

Well Operator's Report of Well Work

Farm Name: RICE EDWARD V

Operator Well No.: KEYSTONE/REED 1

LOCATION: Elevation: 1052.00      Quadrangle: PENNSBORO

District: CENTRAL      County: DODDRIDGE  
Latitude: 11910 Feet South of 39 Deg. 20Min. 0 Sec.  
Longitude 1170 Feet West of 80 Deg. 52 Min. 30 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/17/91  
Well work Commenced: 08/21/91  
Well work Completed: 09/06/91  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5344'  
Fresh water depths (ft) 81', 204'  
Salt water depths (ft) 1500'  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 88'-91'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8-5/8"	1203'	1203'	C.T.S.
4-1/2"		5282'	346
1-1/2"		5127'	

OPEN FLOW DATA

Producing formation Alexander, Riley Pay zone depth (ft) 5170'-4473'  
Gas: Initial open flow 377 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 377 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 6 Hours  
Static rock Pressure 1250 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.

RECEIVED

OCT 25 91

Division of Energy  
Oil and Gas Section

For: Ronald L. Rech  
EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager  
Date: September 24, 1991

OCT 24 1991

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

2-STAGE FOAM FRAC

Alexander: (20 - .39 holes from 5170'-5160') Fraced w/70 Quality foam, 30 lbs gel/1000 gals  
45,000 lbs 16/30 sand, 500 gals 15% HCl acid and 543,000 scf of N<sub>2</sub>

Riley: (19 - .39 holes from 4502.5'-4473.5') Fraced w/70 Quality foam, 30 lbs Gel/1000 gals  
40,000 lbs 20/40 sand, 500 gals 15% HCl acid and 540,000 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
KB to GL			0	10	
Shale and Red Rock			10	75	Damp @ 81'
Sand and Shale and Red Rock			75	204	1/2" Stream @ 130'
Sand			204	235	1/2" Stream @ 204'
Shale and Red Rock			235	271	
Sand and Shale			271	312	
Sand			312	325	<u>GAS CHECKS:</u>
Sand and Shale			325	338	1803' - No show
Red Rock			338	410	1897' - No show
Sand and Shale			410	422	2180' - No show
Red Rock and Shale			422	524	2211' - No show
Sand and Shale			524	573	2402' - No show
Red Rock			573	632	2497' - No show
Sand			632	639	2813' - No show
Shale			639	643	3003' - No show
Sand			643	690	3287' - No show
Sand and Red Rock			690	945	3444' - No show
Sand			945	970	3822' - No show
Sand and Shale			970	1420	4004' - No show
Sand			1420	1520	4230' - No show
Sand and Shale			1520	1680	4420' - No show
Sand			1680	1720	4607' - No show
Sand and Shale			1720	1771	4798' - No show
Sand			1771	1842	4957' - No show
Sand and Shale			1842	1851	D.C. - 16/10 thru 1" w/water
Little Lime			1851	1879	
Sand and Shale			1879	1959	
I. Sand			1959	2032	
Sand and Shale			2032	2224	
Weir			2224	2343	
Sand and Shale			2343	2404	
Berea			2404	2408	
Sand and Shale			2408	3318	
Warren			3318	3369	
Sand and Shale			3369	4468	
Riley			4468	4512	
Sand and Shale			4512	4872	
Benson			4872	4878	
Sand and Shale			4878	5096	
Alexander			5096	5199	
Sand and Shale			5199	5216 T.D.	

(Attach separate sheets as necessary)

017-3898

Issued 7/17/91

Page 3 of 8

Expires 7/17/93

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

- 1) Well Operator: Eastern American Energy Corporation 14980 (1) 538  
 2) Operator's Well Number: Keystone/Reed #1 WVDOD002801 3) Elevation: 1052'  
 4) Well type: (a) Oil   / or Gas XX/  
 (b) If Gas: Production XX/ Underground Storage   /  
 Deep   / Shallow XX/  
 5) Proposed Target Formation(s): 439 Alexander  
 6) Proposed Total Depth: 5340' feet  
 7) Approximate fresh water strata depths: 132', 392', 987'  
 8) Approximate salt water depths: 1472'  
 9) Approximate coal seam depths: 88'-91'  
 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	Fill-up (cu. ft.)
Conductor	11-3/4"	F-25	32.0	40'	-----	
Fresh Water	8-5/8"	F-25	20.0	1175'	1175'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5255'	5255'	38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 20336 Depths set \_\_\_\_\_

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 Division of Energy  
 JUL 01 91

19 For Division of Oil and Gas Use Only  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Sands Blanket  Agent  
 (Type)

1) Date: June 28, 1991  
2) Operator's well number  
Keystone/Reed #1 WVDOD002801  
3) API Well No: 47 - 017 - 3898  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED  
Division of Energy  
JUL 01 91  
Permitting  
Oil and Gas Section

4) Surface Owner(s) to be served:  
(a) Name Edward V. Rice  
Address 1264 Harriets Bluff  
Woodbine, GA 31569  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name N/A  
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  
XXX 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)  
XXX 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 501 56th Street  
Charleston, WV 25304  
Telephone (304) 925-6100

Subscribed and sworn before me this 28th day of June, 1991  
Edna Marie Hupp Notary Public  
My commission expires August 2, 1993