

WR-3

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SEP 19 1989

27-Apr-89
API # 47- 17-03714

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

DIVISION OF OIL & GAS
DEPT. OF ENERGY

Well Operator's Report of Well Work

Farm name: LEGGETT, CARSON EUGENE Operator Well No.: BRITTON 3

LOCATION: Elevation: 1121.00 Quadrangle: OXFORD

District: WESTUNION County: DODDRIDGE
Latitude: 5210 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 7560 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C.
501 56TH ST.
CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 04/27/89
Well work Commenced: 06/12/89
Well work Completed: 06/18/89
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5332'
Fresh water depths (ft) 78', 400', 1426',
1435'
Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1420'-1424'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	177.75'	177.75'	C.T.S.
8-5/8"	1587.60'	1587.60'	C.T.S.
4-1/2"	5272.05'	5272.05'	625

OPEN FLOW DATA

Balltown, Speechley, Warren (Commingled)

Producing formation Alexander, Riley, Bradford, Pay zone depth (ft) 5183'-3221'
Gas: Initial open flow 2768 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 2398 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1450 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: September 13, 1989

SEP 25 1989

FORM NR-35
(REVERSE)

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

4 STAGE FOAM FRAC.

STAGE 1: Alexander: 14 holes (5183'-5139') Breakdown 1565 psi, 60 quality foam, 50,000 lbs. 20/40 sand, 500 gals 15% HCl, 514,000 scf of N₂

STAGE 2: Riley/Bradford: 11 holes (4438.5'-4309') Breakdown 1570 psi, 75 quality foam, 30,000 lbs. 20/40 sand, 500 gals 15% HCl, 550,000 scf of N₂

STAGE 3: Balltown: 11 holes (3799'-3744.5') Breakdown 1680 psi, 75 quality foam, 25,000 lbs. 20/40 sand, 500 gals 15% HCl, 514,000 scf of N₂

STAGE 4: Speechley/Warren: 12 holes (3383'-3221') Breakdown 3300 psi, 75 quality foam, 25,000 lbs. 20/40 sand, 650 gals 28% HCl, 464,000 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
Clay and File			0	15	
Shale			15	80	1/2" water @ 78'
Sand			80	190	
Sandy Shale			190	215	Hole damp @ 400'
Sand			215	400	
Shale and Red Rock			400	530	1" water @ 1435'
Sand			530	558	
Shale and Red Rock			558	935	
Sand			935	950	
Sand and Sandy Shale			950	1420	
Coal			1420	1424	
Sand			1424	1590	GAS CHECKS:
Sand and Sandy Shale			1590	1817	1856' - 24/10 thru 2" w/water
Lime			1817	1825	2815' - 20/10 thru 2" w/water
Shale and Sand			1825	1860	3759' - 20/10 thru 2" w/water
Big Lime			1860	1934	4407' - 12/10 thru 2" w/water
Sand and Shale			1934	1996	4715' - 14/10 thru 2" w/water
Shale			1996	2155	4932' - 16/10 thru 2" w/water
Weir Sand			2155	2277	T.D. - 12/10 thru 2" w/water
Shale w/Trace of Sand			2277	3214	
Warren			3214	3285	
Shale w/Trace of Sand			3285	4290	
Riley			4290	4334	
Shale			4334	4417	
Lower Riley Sand			4417	4448	
Shale w/Trace of Siltstone			4448	4833	
Benson Sand			4833	4874	
Shale w/Trace of Sand			4874	5104	
Alexander			5104	5196	
Shale			5196	5331 T.D.	

017-3714

(Attach separate sheets as necessary)

017-3714

Issued 4/27/89 Expires 4/27/9

FCRM WW-2B

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

- 1) Well Operator: Eastern American Energy Corporation 14980 (8) 525
- 2) Operator's Well Number: BRITTON #3 WVDOD000903 3) Elevation: 1,121'
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production / Underground Storage /
Deep Shallow /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5,350 feet
- 7) Approximate fresh water strata depths: 145, 825 480', 1420' 60'
- 8) Approximate salt water depths: None 1412' 1171'
- 9) Approximate coal seam depths: None 475'-491', 502'-503', 982'-987'
- 10) Does land contain coal seams tributary to active mine? Yes No /
- 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"	F-25	37.5		-----	
Fresh Water	8 5/8"	J-55	20.0	1,221	1,221'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2
Intermediate						
Production	4 1/2"	J-55	10.5	5,275	5,275'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

APR 12 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

15329 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
(Type)

8538

RECEIVED
APR 12 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: April 7, 1989
Operator's well number
BRITTON #3 - WVDOD000903
API Well No: 47 - 017 - 3714
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>Carson Eugene Leggett</u>
Address <u>Rt. 1</u>
<u>West Union, WV 26456</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name _____
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Route 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)-<u>782-1043</u></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 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) Surface Owner & Inspector Hand-Delivered
- _____ 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 P.O. Box N
Glenville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 29th day of March, 1989

Ja. Laraine Rowe Notary Public
My commission expires July 2, 1996