

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

Well Operator's Report of Well Work

Farm name: KNIGHT, ALPHA H. Operator Well No.: M/P 2

LOCATION: Elevation: 1059.00 Quadrangle: PULLMAN

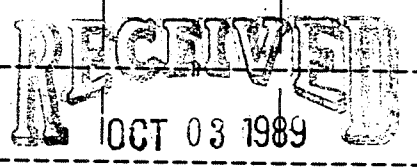
District: CLAY County: RITCHIE
Latitude: 8290 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 11800 Feet West of 80 Deg. 55 Min. 0 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: SAMUEL HERSMAN
Permit Issued: 03/29/89
Well work Commenced: 07/21/89
Well work Completed: 08/12/89
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 4,621'
Fresh water depths (ft) 292'
Salt water depths (ft) 1,490'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1166.35'	1166.35'	C.T.C.
4-1/2"	4581.10'	4581.10'	820
1-1/2"	---	4438.20'	---



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

OPEN FLOW DATA

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Producing formation Riley, Warren (Commingled) Pay zone depth (ft) 4461.5' - 3331.5'
Gas: Initial open flow 411 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 273 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1100 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: September 27, 1989

OCT 6 1989

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

2-STAGE FOAM FRAC:

STAGE 1: RILEY - 10 holes (4461.5'-4447'). Breakdown 1920 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 500 gals 15% HCl, 30,000 lbs 20/40 sand, 644,000 scf of N₂

STAGE 2: Warren - 12 holes (3364.5'-3331.5') Breakdown 1840 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 650 gals 28% HCl, 22650 lbs 20/40 sand, 478,000 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
Soil and Substructure			0	10	Wet hole @ 292' 1/2" Water
Sand and Shale			10	35	Hole Wet @ 1490' 1/4" Water
Shale and Red Rock			35	80	
Shale			80	140	
Shale, Sand and Red Rock			140	262	
Sand			262	377	
Sand, Shale and Red Rock			377	623	
Sand			623	640	
Sand and Shale			640	700	
Shale and Red Rock			700	980	
Sand and Shale			980	1098	
Sand, Shale and Red Rock			1098	1193	
Sand and Shale			1193	1351	
Sand			1351	1541	
Sand and Shale			1541	1760	
Sand and Shale			1760	1830	
Little Lime			1830	1837	
Sand and Shale			1837	1865	
Big Lime			1865	1909	
Sand, Shale, Tr. Limestone			1909	2023	
Siltstone			2210	2242	
Weir			2242	2308	
Siltstone			2308	2348	
Shale			2348	2383	
Berea			2383	2389	
Shale w/Tr. Sand			2389	3324	
Warren			3324	3391	
Shale w/Tr. Sand			3391	4414	
Riley			4414	4487	
Shale			4487	4615 T.D.	

GAS CHECKS:

1825' - No show
 2047' - 4/10 thru 1/2" w/water
 2394' - 4/10 thru 1/2" w/water
 3311' - 2/10 thru 1/2" w/water
 3501' - 20/10 thru 1/2" w/water
 4131' - 14/10 thru 1/2" w/water
 4510' - 20/10 thru 1/2" w/water

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 OCT 03 1989

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

8462

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, 561*
- 2) Operator's Well Number: Maxwell/Perkins #2 WVRIT002902, Elevation: 1,059'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5,370 feet
- 7) Approximate fresh water strata depths: 75, 390
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 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	
Conductor	11"	F-25	37.5			
Fresh Water	8 5/8"	J-55	20.0	1,159	1, 159	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4 1/2"	J-55	10.5	5,245	5,245	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75	3,450	3,450	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: *2541* Well Work Permit *to* Reclamation Fund *WPCP*
 Plat *WV-9* | *WV-2B* | Bond *50 Blanket* Agent *WPCP*
 (Type)

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MAR 21 1989

- 1) Date: March 10, 1989
- 2) Operator's well number
Maxwell/Perkins #2 WVRIT002902
- 3) API Well No: 47 - 085 - 7840
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 Alpha H. Knight
Address Rt. 1
Pennsboro, WV 26415
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Samuel Hersman
Address Rt. 1, Box 240
Harrisville, WV 26362
Telephone (304)- 628-3185

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 _____ 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
Glennville, WV 26351
 Telephone 304/462/5781

OFFICIAL SEAL NOTARY PUBLIC
 STATE OF WEST VIRGINIA
 CYNTHIA S. FREY
 P. O. BOX N
 GLENVILLE, W. VA. 26351
 My Commission Expires Jan. 25, 1999



Subscribed and sworn before me this 17th day of March, 1989

Cynthia S. Frey Notary Public
 My commission expires January 25, 1999