

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

Well Operator's Report of Well Work

Farm name: MARTIN, VIRGINIA ETAL. Operator Well No.: 1968

LOCATION: Elevation: 2,110.00 Quadrangle: GLADESVILLE

District: CLINTON County: MONONGALIA
Latitude: 940 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 900 Feet West of 79 Deg. 55 Min. 0 Sec.

Company: ALAMCO, INC.
P O BOX 1740
CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 10/05/94
Well work Commenced: 10/10/94
Well work Completed: 11/14/94
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 2054'
Fresh water depths (ft) 114'
Salt water depths (ft) None
Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11-3/4"	35'	0	None
8-5/8"	665'	665'	To surface 212 cu. ft.
4-1/2"	--	2031'	226 cu. ft.

OPEN FLOW DATA

Producing formation Fourth Sand Pay zone depth (ft) 1820-1865
 Gas: Initial open flow 223 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 492 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 340 psig (surface pressure) after 72 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: ALAMCO, INC.

By: [Signature] Richard R. Hoffman
Date: 12-5-94

Formations: 0-665' from Drillers Log Book - 665' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>
0	3	Fill
3	76	SD & SH
76	187	SH
187	390	SD
390	509	SD & SH
509	551	RR & SH
551	603	SD & SH
603	665	RR & SH
665	704	SD & SH
704	730	Little Lime
730	754	SH
754	828	Big Lime
828	853	Keener
853	876	SH
876	972	Big Injun
972	986	SH
986	994	Squaw
994	1057	SH
1057	1167	Weir
1167	1283	SD & SH
1283	1337	Gantz/50'
1337	1597	SD & SH
1597	1606	Gordon
1606	1819	SD & SH
1819	1867	4th Sand
1867	1877	SH
1877	1898	5th Sand
1898	1976	SD & SH
1976	2047	Bayard
	2054	Driller TD
	2047	Log TD

Water, Coal, Gas

Water: 1/4" @ 114'

Coal: None

Oil: None

Gas Checks:

786'	N/S
1031'	N/S
1155'	N/S
1187'	N/S
1591'	N/S
1652'	N/S
1869'	119 MCF/D
1899'	189 MCF/D
2054'	223 MCF/D

Treatment and Perforations:

Stimulation: 11/14/94

Perforations: (1820-1865')
15 Holes

Frac: 4th Sand
WF-20# gel system with
40,000# 20/40 Sand
758 BBLs. Total Fluid

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061-1177
 Issued 10/05/94
 Expires 10/05/96
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FORM WW-2B Permitting
 Office of Oil & Gas

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

- 1) Well Operator: D10 ALAMCO, INC.
- 2) Operator's Well Number 1968 3) Elevation: 2110
- Well type: (a) OIL / or GAS XX /
 (b) If Gas: Production XX / Underground Storage /
 Deep / Shallow XX /
- 5) Proposed Target Formation(s): BAYARD 423
- 5) Proposed Total Depth: 2,065' feet
- 7) Approximate fresh water strata depths: 134', 449'
- 3) Approximate salt water depths: NONE
- 3) Approximate coal seam depths: 134'
- 10) Does land contain coal seams tributary to active mine? Yes / No XX /
- 11) Proposed Well Work: SEE ATTACHED *Drill & Stimulate*
- 12) **CASING AND TUBING PROGRAM**

TYPE	SIZE	GRADE	WEIGHT PER FT	FOR DRILLING	FOOTAGE INTERVALS	CEMENT
CONDUCTOR	11-3/4"	LS	32#	40'	-0-	Fill-Up (Cu. Ft.) NONE
FRESH WATER						
COAL						
SURFACE CSG	11"	J-55	32#			As required by 38 CSR 18-11-3 38 CSR 18-11-2
INTERMEDIATE	8-5/8"	J-55	24#	650'	650' <i>cts</i>	As required by 38 CSR 18-11-3 38 CSR 18-11-2 <i>2</i>
PRODUCTION	4-1/2"	M-75	11.60#	2,065'	2,065'	As required by 38 CSR 38-11-1

PACKERS: Kind NONE
 Sizes
 Depths Set

For Division of Oil and Gas Use Only

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

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Permitting
Office of Oil & Gas

- 1) Date: September 1, 1993
- 2) Operator's well number
A-1968 (MARTIN)
- 3) API Well No: 47 - 061 - 1177
State - County - Permit

**STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Virginia H. Martin & Geraldine Core
 - Address R. Edward Smith Heirs
1231 Van Voorhes Road-Apt G
Morgantown, WV 26505
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
 - Name NO DECLARATION OF RECORD
 - Address _____
 - (b) Coal Owner(s) with Declaration
 - Name Virginia H. Martin & Geraldine Core
 - Address R. Edward Smith Heirs
1231 Van Voorhes Road - Apt. G
Morgantown, WV 26505
 - (c) Coal Lessee with Declaration
 - Name NO DECLARATION OF RECORD
 - Address _____
- 6) Inspector Randal Mick
- Address 111 Blackshere Drive
Mannington, WV 26582
- Telephone (304)- 986-3324

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 ALAMCO, INC.
By: Marty Bern
Its: P. O. Box 1740
Address Clarksburg, WV 26302-1740

Telephone 304 623-6671

Subscribed and sworn before me this 29th day of September, 1993

Lebbie M. Cox Notary Public
My commission expires December 9, 2002

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ATTACHMENT TO:
FORM WW-2B

Permitting
Office of Oil & Gas

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WELL OPERATOR ALAMCO, INC.
OPERATOR WELL NO: 1968
FILE NUMBER 47-061- 1177

11. Proposed Well Work:

Well 1968 will be drilled to approximately 650' KB. The 8-5/8" casing will be set at approximately 650' KB and then cemented to surface. The well will then be drilled to 2,065' KB and the 4-1/2" casing set at approximately 2,065' KB. The 4-1/2" casing will be cemented to 1,500' KB. The well will then be hydraulically fractured in the Bayard Sand Formation.

12. Plan for partial abandonment: