

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

Well Operator's Report of Well Work

Farm name: LEGGETT, OTIS Operator Well No.: LEGGETT A-1986

LOCATION: Elevation: 1,058.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 1650 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 2000 Feet West of 80 Deg. 50 Min. Sec.

Company: ALAMCO, INC.

200 W. MAIN ST., P.O. BOX 1740
CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: MIKE UNDERWOOD

Permit Issued: 09/27/93

Well work Commenced: 11/03/93

Well work Completed: 11/18/93

Verbal Plugging

Permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 5278

Fresh water depths (ft) Damp @ 960'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 242

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	35	-	
8-5/8	1056.20	1056.20	250 Sks 295 ft.
4-1/2		5230.40	500 Sks 645 ft.

OPEN FLOW DATA

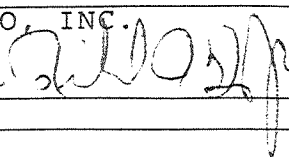
Producing formation Alexander Pay zone depth (ft) 5070'-5117'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 3530* MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1650* psig (surface pressure) after 144 Hours

Second producing formation Benson Pay zone depth (ft) 4793'-4809'
Gas: Initial open flow 24 MCF/d Oil: Initial open flow - Bbl/d
Final open flow see above MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests see above Hours
Static rock Pressure see above psig (surface pressure) after see above Hours

*Commingled

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: 
Date: _____

Richard R. Hoffman

Formations: 0-1080' from Drillers Log Book - 1080' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	242	SH & RR	<u>Water:</u> Damp @ 960'	
242	245	Coal		
245	533	SH & RR	<u>Coal:</u> 242' - 245'	
533	545	SD		
545	1046	SH & RR	<u>Oil:</u> None	
1046	1080	Sand		
1080	1192	SH	<u>Gas Checks:</u>	
1192	1333	SD & SH	1445'	N/S
1333	1625	SH & SD	1631'	N/S
1625	1730	Maxton	1662'	N/S
1730	1849	SH & Lime	1975'	N/S
1849	1977	Big Lime/Injun	2163'	N/S
1977	2142	SH	2288'	N/S
2142	2268	Weir	2501'	N/S
2268	4793	SH & Silt	2813'	N/S
4793	4837	Benson	3345'	N/S
4837	5052	SH	4407'	Odor
5052	5134	Alexander	4595'	60 MCF/D
5134	5296	SH	4812'	84 MCF/D
	5296	Log TD	5025'	60 MCF/D
	5278	Drig. TD	5123'	60 MCF/D
			5278'	Show

Stimulation: 11-18-93

1st Stage: Alexander
 Perfs: (5070' to 5117') 14 holes
 WF20 W/N2, 40,000 #20/40 Sand,
 799 BBLS, 120,000 N2

2nd Stage: Benson
 Perfs: (4793' to 4809') 10 holes
 WF20 W/N2, 40,000 #20/40 Sand,
 725 BBLS, 130,000 N2

DF - 424
 DFT - 439

1800

18006

RECEIVED
Environmental Protection
SEP 24 93
Permitting
Dept of Oil & Gas

017-4049
Issued 9/27/93
Expires 9/27/95

FORM WW-2B

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

Well Operator: ALAMCO, INC. (975) 610 (7) 526
Operator's Well Number A-1986 (LEGGETT) 3) Elevation: 1058
Well type: (a) OIL / or GAS XX /
(b) If Gas: Production XX / Underground Storage /
Deep / Shallow XX /
Proposed Target Formation(s): Alexander 439
Proposed Total Depth: 5500 feet
Approximate fresh water strata depths: Damp @ 120'
Approximate salt water depths: None
Approximate coal seam depths: 1,270'-1,267'
Does land contain coal seams tributary to active mine? Yes / No XX /
Proposed Well Work: SEE ATTACHED

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"	LS	32#	40'	40'	NONE
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	24#	1,058'	1,058'	As required by 38 CSR 18-11-22
Production	4-1/2"	M-75	11.60	5,500'	5,500'	As required by 38 CSR 38-11-1
Tubing						
Liners						

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
TYPE

1) Date: 08/26/93
2) Operator's well number
A-1986 (LEGGETT)
3) API Well No: 47 - 017 - 4049
State - County - Permit

Office of ~~Oil & Gas~~ 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 Otis Leggett
Address 1002 Stadium Drive
St. Mary's, WV 26170
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304)-782-1043

5) (a) Coal Operator:
Name NONE OF DECLARATION
Address _____
(b) Coal Owner(s) with Declaration
Name Otis Leggett
Address 1002 Stadium Drive
St. Mary's, WV 26170
Name _____
Address _____
(c) Coal Lessee with Declaration
Name NONE OF DECLARATION
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

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 9 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 Perri
Its: J Manager, Land
Address P. O. Box 1740
Clarksburg, WV 26301
Telephone (304) 623-6671

Subscribed and sworn before me this 27th day of August, 1993

Rhonda Brown Goss (commissioned as Rhonda Brown) Notary Public
My commission expires July 25, 1995