

JUN 4

Richard R. Hoffman

- 1993

INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Mawad

Recorded.

Fir: ALAMCO,

By: -Km

Date:

Formations: 0-627 Drillers Log Book - 627 to TD Gamma Ray Log

						•		.9 1
Top	Bottom	Type		Water, Coa	al,	Gas	:	Herrica Artis
0	20	Fill		1/4" Strea	am (	3 55'		
20	22	Coal	•					
22	34	SH						
34	36	Coal	•	Coals: 20	0 -	22';	34 -	36';
36	157	Sand		<del>157 - 159</del>	•			·
157	159	Coal						
159	470	Sand						
470	596	SH & RR		Gas Checks	s :			
596	607	Lime						
607	627	SH & RR		944'	N/S	5		
627	750	Biq Lime		1098'	N/S	5		
750	806	Big Injun		1129'	N/S	5		
806	930	SH		1506'	58	MCF/D	)	
930	1036	Weir		1599'	47	MCF/D	)	
1036	1158	SH		1693'	36	MCF/D	) "	
1158	1210	Gantz/50'		1786'	54	MCF/D		·
1210	1723	SD & SH		1911'	42	MCF/D	)	
1723	1757	4th Sand		<pre>@ Collars</pre>	22	MCF/D	)	
1757	1907	SD & SH					~	
	1907	Logger TD		Perforation	ons	<u>.</u>		

4th Sand (1736-1756) 11 Holes

## Fracture:

Water Frac 20# Gel w/N2 Assist. 40,000 #20/40 Sand, 96,000 Cu. Ft. N2

061-1109

Division of Action		•			•	0
WW Division of Protection Finding WW O'S STATE OR WAY O'S STATE O'S STATE OR WAY O'S STATE OR WAY O'S STATE O'S STATE O'S STA	w 20			Iss	ued 65	5/06/43
ENVIRONING TO STATE STATE	N-2B				Page 3	of 9
Permitting Oil & G	S DEDARMY		F WEST VIRGI	NIA EXP	MAD OS	106195
Permitting Oil & G	DEPARTM	WELL WORK	GY, DIVISION PERMIT APPLI	OF OIL MAD	GAS	
		ACO, INC.		368		
_		•	( , , ,		<b>-</b>	0161
2) Operator'	s well Mulli	per A-1956	, PKOMM	3) E10	evation: 2	,016.
;			or GAS 1 tion XX /		nd Storage <u>XX</u> /	/
• •	Target Form	mation(s):	FOURTH SAN	D 421		
_	Total Dept	n: 1,916 fee	t			
Approxima	te fresh wa	ater strata	depths: 53'			
Approxima	te salt wat	ter depths:	NONE			
Approxima	te coal sea	am depths:	53'			
ıu, Does land	contain co	oal seams tr	ibutary to a	ctive mine:	Yes	_/ No <u>XX</u>
11) Proposed	Well Work:	SEE ATT	ACHED			
12)		CASING A	ND TUBING PRO	GRAM		
TYPE	Si	PECIFICATION	S	FOOTAGE IN	TERVALS	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	23#	644'	CS 644'	As reg by Ru 38 CSR 18-11 38 CSR 18-11
Production	4-1/2"	J-55	10.50	1,916'	1,916'	As req by Ru 38 CSR 38-11
Tubing						
Liners						
PACKERS: / Kin	ıd 1	NONE			**************************************	
Siz	es					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ths Set					

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund

Plat WW-9 WW-2B Bond

•					
<b>5D</b>					
Page 1 of AF (1)	Data				
Page 1 of All Protection 1) Form WW2-A 2) (10-91) Environment 2					
(10-91) Environmer	A-1956 (BROWN)				
MAY 0 3 30 -4 31	API Well No: 47 - 061 - 1109				
Permitting Cont	State - County - Permit				
Permitting GEN STATE OF WES					
Office STATE OF WES	ST VIRGINIA				
DIVĮSION OF ENVIRONMENTAL PROT	ECTION, OFFICE OF OIL AND GAS				
NOTICE AND APPLICATION	FOR A WELL WORK PERMIT				
4) Surface Owner(s) to be served:	5) (a) Coal Operators				
(a) Name Arden Brown	5) (a) Coal Operator:				
Address 15517-1/2 Eucalyptus Ave.	Name <u>None of Declaration</u> Address				
Bellflower, CA 90706					
(b) Name	(b) Coal Owner(s) with Declaration				
Address	Name Arden Brown				
	Address 15517% Eucalyptus Avenue				
(c) Name	Bellflower, CA 90706				
Address	Name				
	Address				
6) Inspector Randal Mick	(c) Coal Lessee with Declaration				
6) Inspector Randal Mick Address 111 Blackshere Drive	Name None of Declaration				
Mannington, WV 26582	Address				
Telephone (304)-987-3324					
TO THE PERSON(S) NAMED A	ABOVE TAKE NOTICE THAT:				
Tooluded to the lease on lease o					
Included is the lease or leases or contracts by which I hold the right to					
XX Included is the information requi					
Section 8(d) of the Code of West Virgi					
	Chapter 22B of the West Virginia Code				
I have served copies of this notice an					
accompanying documents pages 1 through	8 on the above named parties, by:				
Personal Service (Affidavit	attached)				
XX Certified Mail (Postmarked postal receipt attached)					
Publication (Notice of Publi	cation attached)				
	r 22B and 38 CSR 11-18, and I agree				
to the terms and conditions of any per					
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.					
	cant penalties for submitting false				
information, including the possibility					
Well Operator	ALAMCO, INC.				
By: Marty	- Silemi				
Its:	Marty I. Perri				
Address	P. O. Box 1740, Clarksburg, WV 26302-1740				
Telephone	20/ (22 (671				
Subscribed and sworn before me this 30	304-623-6671 Ath day of April , 1993				
The state of the s	// /				
COlore III.	Notary Public				
My commission expires December 9, 2002					

NW 0 3 93

ATTACHMENT TO: FORM WW-2B

Permitting of Oil & Com

Page <u>4</u> of <u>9</u>

WELL OPERATOR

ALAMCO, INC.

OPERATOR WELL NO:

A-1956 (BROWN)

FILE NUMBER

47-061- 1/09

## 11. Proposed Well Work:

Well A-1956 will be drilled to approximately 660' KB. The 8-5/8" casing will be set at approximately 644' KB and then cemented to surface. The well will then be drilled to 1,916' KB and the 4-1/2" casing set at approximately 1,916' KB. The 4-1/2" casing will be cemented to 1,000' KB. The well will then be hydraulically fractured in the Fourth Sand Formation.

## 12. Plan for partial abandonment: