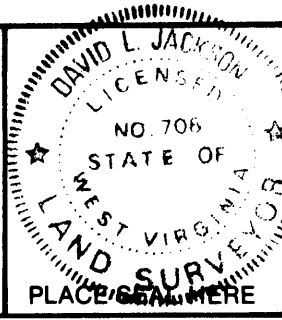


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Top of Knob 3100' NW of Location: elev. 1917'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY  
 (SIGNED) David J. Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE September 2, 19 94  
 OPERATOR'S WELL NO. 2032  
 API WELL NO. 47-061-1178  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_

LOCATION: ELEVATION 1873' WATERSHED Booths Creek  
 DISTRICT Clinton COUNTY Monongalia  
 QUADRANGLE Gladesville 7 1/2' Johnson NW

SURFACE OWNER Albert Clark Brown ACREAGE 60  
 OIL & GAS ROYALTY OWNER Albert Clark Brown LEASE ACREAGE 60  
 LEASE NO. 4637

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Huntersville Chert ESTIMATED DEPTH 8300  
 WELL OPERATOR Alamco, Inc. DESIGNATED AGENT Marty Perri  
 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740

FORM WW-6

LONGITUDE 79-55-00 W

COUNTY NAME

PERMIT

DEEP WELL 6-6 South Burns Chapel (213)

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

Well Operator's Report of Well Work

Farm name: BROWN, ALBERT CLARK Operator Well No.: 203  
LOCATION: Elevation: 1,873.00 Quadrangle: GLADESVILLE

District: CLINTON County: MONONGALIA  
Latitude: 1460 Feet South of 39 Deg. 30Min. 0 Sec.  
Longitude: 5500 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: 10/20/94  
Well work Commenced: 11/04/94  
Well work Completed: 12/01/94  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 8001'  
Fresh water depths (ft) 20'; 140'  
Salt water depths (ft) 2017'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	346'	346'	175 Sk. 207 Ft. 3
8-5/8	2152'	2152'	625 Sk. 738 Ft. 3
4-1/2		7953'	225 Sk. 358 Ft. 3

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Chert Pay zone depth (ft) 7590-7715  
Gas: Initial open flow Odor MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 2090 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 2950 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: R. Mark Hackett R. Mark Hackett  
Date: 12/16/94

RECEIVED  
WV Division of Environmental Protection  
DEC 09 1994  
Permitting Office of Oil & Gas

Formations: 0-2200' from Drillers Log Book - 2200' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	140	SH	<u>Water:</u> 20'; 140' and 2017'	
140	441	SD & SH	<u>Coal:</u> None	
441	680	SH & RR	<u>Oil:</u> None	
680	718	Lime & SH	<u>Gas Checks:</u>	
718	942	Big Lime/Injun	2826'	N/S
942	1027	SH	3326'	N/S
1027	1136	Weir	3855'	N/S
1136	1255	SH	4354'	N/S
1255	1780	SH & SD	4856'	N/S
1780	1993	SD	5357'	N/S
1993	2625	SH	5855'	N/S
2625	2835	SP/Bltm	6355'	N/S
2835	7187	SH	7010'	N/S
7187	7273	Tully L.	7199'	N/S
7273	7478	SH	7566'	N/S
7478	7573	Marcellus	7721'	N/S
7573	7586	Onondaga	8001'	N/S
7586	7738	Chert		
7738	7777	SH		
7777	7834	Oriskany		
7834	8001	Lime		
	8001	Drlg. TD		
	8024	Log TD		

Treatment and Perforations:

Stimulation: 12/01/94  
Huntersville Chert

Perforations: (7590-7715')  
27 Holes; WF-30 w/5% HCL throughout  
15,000# 80/100, 60,000# 20/40;  
1280 Bbls. Total Fluid

06861

*Rev. 10/12/94*

*061-1178*

*Issued 10/20/94*  
Page 3 of 11

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

*Expires 10/20/96*  
368

Well Operator: ALAMCO, INC. 975 (4)

Operator's Well Number 2032 3) Elevation: 1,873'

type: (a) OIL     / or GAS XX/  
(b) If Gas: Production XX/ Underground Storage     /  
Deep XX/ Shallow     /

5) Proposed Target Formation(s): HUNTERSVILLE CHERT 423

5) Proposed Total Depth: 8,300 feet

7) Approximate fresh water strata depths: 80', 210'

8) Approximate salt water depths: NONE

9) Approximate coal seam depths: 205', 277'

10) Does land contain coal seams tributary to active mine? Yes     / No XX/

1) Proposed Well Work: SEE ATTACHED

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	SIZE	GRADE	WEIGHT PER FT	FOR DRILLING	LEFT IN WELL	Fill-Up (Cu. Ft.)
CONDUCTOR	11-3/4"	LS	32#	350'	350' <i>C/S</i>	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
FRESH WATER						
COAL						
INTERMEDIATE	8-5/8"	J-55	24#	2,300'	2,300'	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
PRODUCTION	4-1/2"	M-75	11.60#	7,900'	7,900'	As required by 38 CSR 38-11-1

PACKERS: Kind NONE  
Sizes       
Depths Set     

For Division of Oil and Gas Use Only

*083805/33*

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond *Blanket*  Agent

*12*

WELL OPERATOR           ALAMCO, INC.  
OPERATOR WELL NO:     2032  
FILE NUMBER            47-061- 1178

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11. Proposed Well Work:

Well 2032 will be drilled to approximately 400' KB. The 11-3/4" casing will be set at approximately 350' KB and then cemented to surface. The well will then be drilled to 2,350' KB and the 8-5/8" casing set at approximately 2,300' KB. The 8-5/8 casing will then be cemented to surface. The well will then be drilled to 7,900' KB. The 4-1/2" casing will be cemented to 6,500' KB. The well will then be hydraulically fractured in the Huntersville Chert Formation.

061-1178

Page 1 of 11  
Form WW2-A  
(09/87)  
File Copy

1) Date: September 16, 1994  
2) Operator's well number  
2032  
3) API Well No: 47 - 061 - 1178  
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>Albert Clark Brown</u><br/>Address <u>1134 Pleasant Hill Road</u><br/><u>Morgantown, WV 26505</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:<br/>Name <u>NO DECLARATION OF RECORD</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration<br/>Name <u>Albert C. Brown</u><br/>Address <u>1134 Pleasant Hill Road</u><br/><u>Morgantown, WV 26505</u></p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration<br/>Name <u>NO DECLARATION OF RECORD</u><br/>Address _____</p> |
| <p>6) Inspector <u>Randal Mick</u><br/>Address <u>111 Blackshere Drive</u><br/><u>Mannington, WV 26582</u><br/>Telephone (304)- <u>986-3324</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 11 on the above named parties, by:

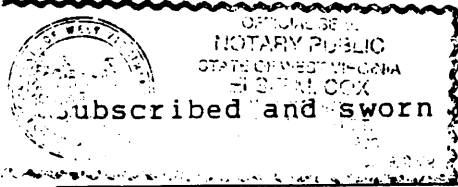
       Personal Service (Affidavit attached)  
XX Certified Mail (Postmarked postal receipt attached)  
       Publication (Notice of Publication attached)

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 Peni  
Its: Manager, Land  
Address P. O. Box 1740  
Clarksburg, WV 26302-1740  
Telephone 304 623-6671



Subscribed and sworn before me this 16<sup>th</sup> day of September, 1994  
Elizabeth M. Cox Notary Public  
My commission expires December 9, 2002



STATE OF WEST VIRGINIA  
**OIL AND GAS CONSERVATION COMMISSION**  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

October 19, 1994

Division of Environmental Protection  
Office of Oil and Gas  
Nitro, West Virginia

Re: Application for Permit #47-061-01178 to drill deep well.

COMPANY: ALAMCO, INC.

FARM: Albert Clark Brown #2032

COUNTY: Monongalia DISTRICT: Clinton QUAD: Gladesville

The application of the above company is Approved for Huntersville.  
(Approved or Disapproved)

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; **\*yes**

3.) Provided a plat showing that the proposed location is a distance of **473** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

*Brett Loflin* (CL)  
Brett Loflin  
Engineer III

3,004 feet to 47-061-01171

3,173 feet to 47-061-01092