

- Line Table**
- A. S21-00E 99'
  - B. S50-00E 132'
  - C. N84-00E 132'
  - D. S84-30E 99'
  - E. S53-00E 214.5'
  - F. S85-00E 79.2'

**Legend**

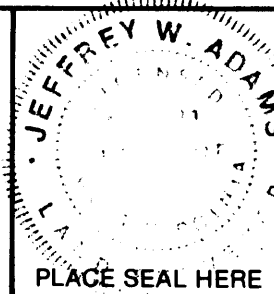
- - - original tract lines
- ..... surface tracts within lease

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION BM 1700' SW of Location; elev. 1931'

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) Jeffrey W. Adams  
 R.P.E. \_\_\_\_\_ L.L.S. 791



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



DATE September 8, 19 95  
 OPERATOR'S WELL NO. 2052  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1918 WATER SHED Martins Run  
 DISTRICT Lyon COUNTY Preston  
 QUADRANGLE Newburg 7 1/2'

SURFACE OWNER Steven E. Frey ACREAGE 64.27  
 OIL & GAS ROYALTY OWNER Steven E. Frey et al LEASE ACREAGE 91 Ac.  
 LEASE NO. 4585

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 Fourth Sand ESTIMATED DEPTH 2700  
 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

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

Permitting  
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: FREY, STEVEN E. Operator Well No.: 2052

LOCATION: Elevation: 1,918.00 Quadrangle: NEWBURG

District: LYON County: PRESTON  
Latitude: 7300 Feet South of 39 Deg. 27Min. 30 Sec.  
Longitude 10750 Feet West of 79 Deg. 50 Min. 0 Sec.

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

Agent: MARTY L. PERRI

Inspector: PHILLIP TRACY  
Permit Issued: 09/15/95  
Well work Commenced: 09/21/95  
Well work Completed: 10/16/95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2462  
Fresh water depths (ft) 62

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 84'-87'; 280'-283';  
458'-462'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11"	35	-	
8-5/8"	939	939	Cmt. to surface 313
4-1/2"		2407'	148

OPEN FLOW DATA

Producing formation 4th Sand Pay zone depth (ft) 2243'-2299'  
 Gas: Initial open flow 13 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 130 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 520 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: Richard R. Hoffman  
Date: \_\_\_\_\_

Formations: 0-970' from Drillers Log Book - 970' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	5	Fill	<u>Water:</u> 1/4" @ 62'	
5	84	SD & SH		
84	87	Coal	<u>Coal:</u>	
87	280	SD	84' - 87'	
280	283	Coal	280' - 283'	
283	350	SD & SH	458' - 462'	
350	458	SD		
458	462	Coal		
462	484	SD & SH	<u>Oil:</u> None	
484	541	SD		
541	573	SD & SH	<u>Gas Checks:</u>	
573	682	SD		
682	703	SD & SH		
703	940	SD	1312'	N/S
940	970	SH & RR	1620'	30 MCFD
970	1175	SD & SH	2108'	5 MCFD
1175	1190	Little Lime	2296'	13 MCFD
1190	1217	Pencil Cave	2462'	13 MCFD
1217	1316	Big Lime		
1316	1346	Keener		
1346	1410	Big Injun		
1410	1430	Squaw		
1430	1506	SH		
1506	1604	Weir	<u>Treatment and Perforations:</u>	
1604	1709	SH	Stimulation: 10/16/95	
1709	1715	Gantz	Perforations: (2246-2297')	
1715	1754	SH	15 Holes - 4th Sand	
1754	1780	50'	Frac: WF-25 w/40,000# 20/40 Sand in	
1780	1993	SD & SH	680 BBL gelled water	
1993	2000	Gordon		
2000	2243	SD & SH		
2243	2299	4th Sand		
2299	2328	SH		
2328	2340	5th Sand		
2340	2358	SH		
2358	2402	Bayard		
2402	2462	SH		
	2462	Drlg. TD		
	2462	Log TD		

077-0289 Issued 09/15/95  
Expires 09/15/97

FORM WW-2B

Page 3 of 10

21090

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

Well Operator: ALAMCO, INC. <sup>010</sup> 975 <sup>(3)</sup> 507  
Operator's Well Number 2052 3) Elevation: 1,918'

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

- ) Proposed Target Formation(s): Fourth Sand 421
- ) Proposed Total Depth: 2,700 feet
- ) Approximate fresh water strata depths: 50', 220'
- ) Approximate salt water depths: NONE
- ) Approximate coal seam depths: 450'
- .0) 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			
	SIZE	GRADE	WEIGHT PER FT	FOR DRILLING	LEFT IN WELL	Fill-Up (Cu. Ft.)
CONDUCTOR	11-3/4"	LS	32#	30'	-0-	NONE
FRESH WATER						
COAL						
INTERMEDIATE	8-5/8"	J-55	23#	650'	650' <i>CS</i>	As required by 38 CSR 18-11-3 38 CSR 18-11-2 <u>2</u>
PRODUCTION	4-1/2"	J-55	10.50#	2,700'	2,700'	As required by 38 CSR 38-11-1
TUBING						
LINERS						

PACKERS: Kind NONE  
Sizes \_\_\_\_\_  
Depths Set \_\_\_\_\_

~~10345~~  
39

For Division of Oil and Gas Use Only

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

WELL OPERATOR           ALAMCO, INC.  
OPERATOR WELL NO:    2052  
FILE NUMBER            47-077- 0289

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11. Proposed Well Work:

Well 2052 will be drilled to approximately 30' KB. The 11-3/4" casing will be set at approximately 30' KB. The well will then be drilled to 650' KB and the 8-5/8" casing set at approximately 650' KB and then cemented to surface. The well will then be drilled to 2,700' KB and the 4-1/2" casing set at approximately 2,700' KB. The 4-1/2" casing will be cemented to 1,700' KB. The well will then be hydraulically fractured in the Fourth Sand Formation.

12. Plan for partial abandonment:

1) Date: September 14, 1995  
2) Operator's well number  
2052  
3) API Well No: 47 - 077 - 0289  
State - County - Permit

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 Steven E. Frey  
Address Route 1, Box 253  
Masontown, WV 26542
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name NO DECLARATION OF RECORD  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Steven Frey  
Address Route 1, Box 253  
Masontown, WV 26542  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Phillip Tracey  
Address Route 2, Box 37-A  
Montrose, WV 26283  
Telephone (304)- \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name NO DECLARATION OF RECORD  
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 10 on the above named parties, by:

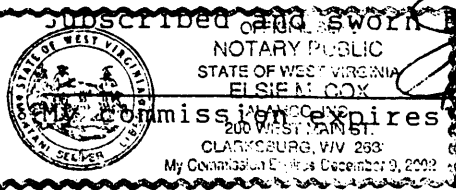
- XX Personal Service (Affidavit attached)
- \_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_ Publication (Notice of Publication attached)

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 Dean  
Its: \_\_\_\_\_ Manager, Land  
Address 200 West Main Street  
Clarksburg, WV 26301  
Telephone 1 800 873-2526

Subscribed and sworn before me this 14th day of September, 1995



Elsie Cox  
Notary Public  
December 9, 2002