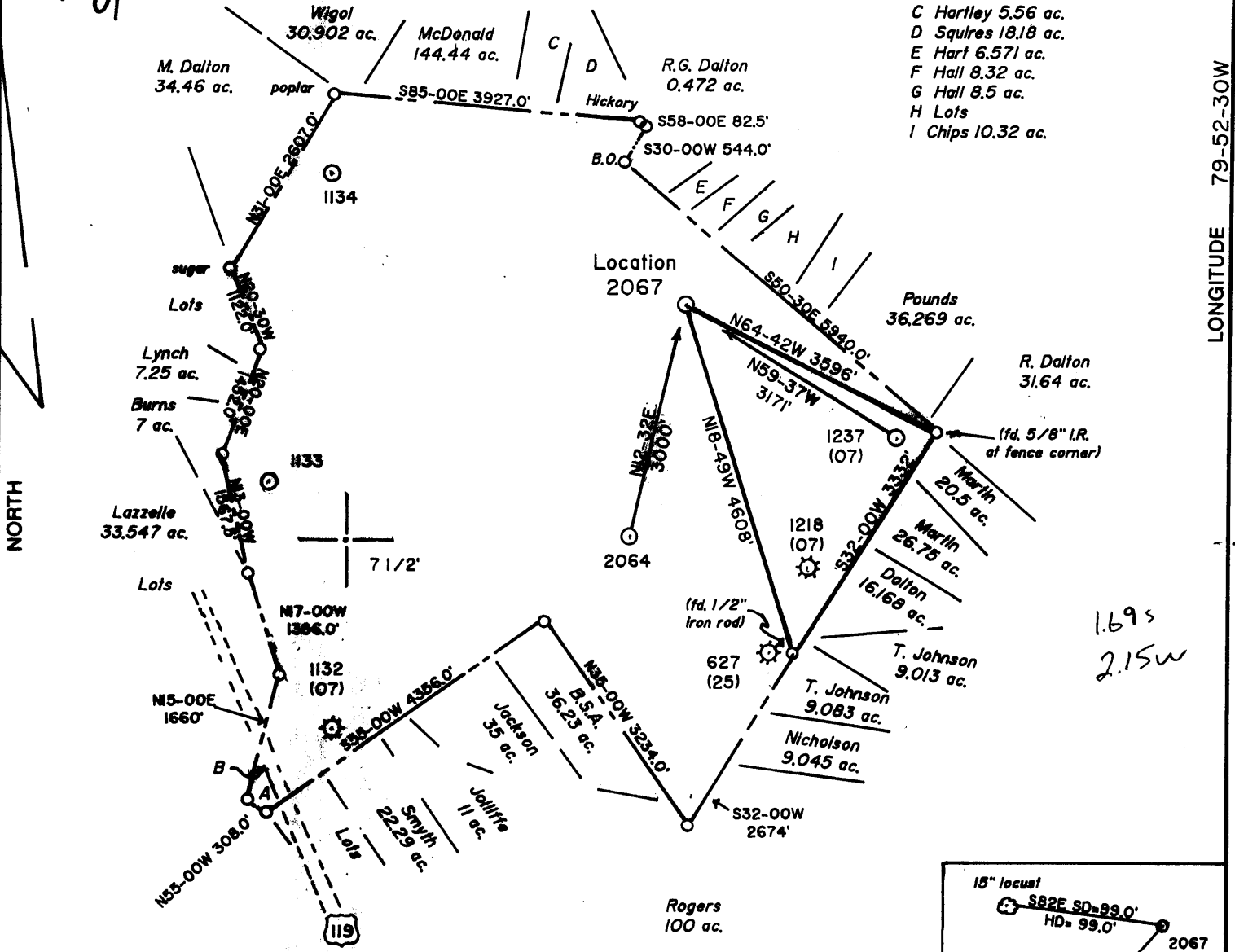
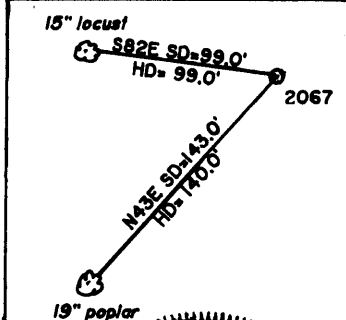


James
8/2/96

- A C. Johnson 3.2 ac.
- B Powers 0.2 ac.
- C Hartley 5.56 ac.
- D Squires 18.18 ac.
- E Hart 6.571 ac.
- F Hall 8.32 ac.
- G Hall 8.5 ac.
- H Lots
- I Chips 10.32 ac.



1.695
2.15W

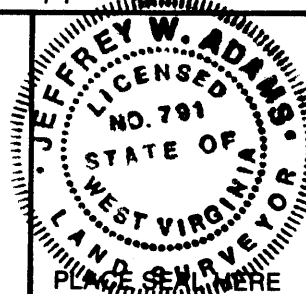


Note: Location is at least 400' from all lease lines.
All wells within 2,400' of this location are shown on this plat.

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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION B.M. 8100' SW of Location: elev. 1595'

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 July 16, 19 96
 OPERATOR'S WELL NO. 2067
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1440 WATER SHED Mountain Run
 DISTRICT Clinton COUNTY Monongalia
 QUADRANGLE Morgantown South 7 1/2'

47-061-01247
 STATE COUNTY PERMIT

SURFACE OWNER Thomas Johnson Jr. et al ACREAGE 1264.3
 OIL & GAS ROYALTY OWNER Thomas Johnson Jr. et al LEASE ACREAGE 1264
 LEASE NO. 4691

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 Oriskany ESTIMATED DEPTH 8500 6-6 313 AUG 2 1996
 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

DEEP WELL

OCT 30 1996

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

Well Operator's Report of Well Work

Farm name: LUDWIG, ORA LEE J. Operator Well No.: 2067

LOCATION: Elevation: 1,440.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 8875 Feet South of 39 Deg. 35Min. 0 Sec.
Longitude 11300 Feet West of 79 Deg. 52 Min. 30 Sec.

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

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 07/31/96
Well work Commenced: 08/28/96
Well work Completed: 09/23/96
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 7590' Drill; 7635' Log.
Fresh water depths (ft) 32

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	40'	-	N/A
11-3/4"	342'	342'	Cmt. to Surface 175 Sks.
8-5/8"	2893'	2893'	Cmt. to Surface 850 Sks.
4-1/2"	7613'	7613'	175 Sks.

OPEN FLOW DATA

Producing formation Huntersville Pay zone depth (ft) 7290'
Chert 7394'
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 2320 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 2850 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: October 25, 1996

Formations: 0-580' from Drillers Log Book; 580' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	15	Fill	<u>Water:</u> 2" @ 32'	
15	20	SH		
20	25	Gravel	<u>Coal:</u> None	
25	35	SD & SH		
35	79	SD	<u>Oil:</u> None	
79	220	SD & SH		
220	260	SD	<u>Gas Checks:</u>	
260	580	SD & SH		
580	594	Little Lime	569'	N/S
594	632	SH	824'	N/S
632	700	Big Lime	1508'	N/S
700	725	Keener	1724'	N/S
725	750	SH	1817'	N/S
750	854	Big Injun	1848'	N/S
854	895	Squaw	2687'	N/S
895	966	SH	2811'	N/S
966	1063	Weir	5717'	N/S
1063	1185	SD & SH	6784'	N/S
1185	1242	Gantz/50'	7096'	N/S
1242	1530	SD & SH	7217'	N/S
1530	1535	Gordon	7280'	N/S
1535	1780	SD & SH	7343'	N/S
1780	1794	4th Sand	7404'	N/S
1794	1831	SH	7466'	N/S
1831	1843	5th Sand	7590'	N/S
1843	1877	SD & SH		
1877	1953	Bayard		
1953	2557	SH	<u>Treatment and Perforations:</u>	
2557	2575	Speechley		
2575	2768	SH	Stimulation: 09/23/96	
2768	2779	Balltown		
2779	6877	SH	Perforations: (7290 - 7394')	
6877	6975	Tully	24 Holes	
6975	7175	SH		
7175	7275	Marcellus	Frac: Huntersville Chert	
7275	7289	Onondaga	WF-30# gel system with	
7289	7439	Hntrsvl Chrt	15,000# 80/100 Sand and 60,000# 20/40	
7439	7478	Needmore	Sand w/ 5% HCl throughout	
7478	7568	Oriskany		
7568	7590	Helderberg		
	7590	Drlg. T. D.		
	7635	Log T. D.		

JUL 31 1996

FORM WW-2B

Page 3 of 10

Permitting **STATE OF WEST VIRGINIA**
 Office of Oil & Gas
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 07/31/96
 Expires 07/31/98

- 1) Well Operator: ALAMCO, INC. ⁰¹⁰ 915 (U) 405
- Operator's Well Number 2067 3) Elevation: 1,440'
- 1 type: (a) OIL / or GAS XX /
 (b) If Gas: Production XX / Underground Storage /
 Deep XX / Shallow /
- Proposed Target Formation(s): 475 ORISKANY
- Proposed Total Depth: 8,500 feet
- Approximate fresh water strata depths: 80'
- Approximate salt water depths:
- 9) Approximate coal seam depths: 90'
- 10) Does land contain coal seams tributary to active mine? Yes / No XX /
- 11) Proposed Well Work: **SEE ATTACHED**

12) **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	16"	LS	32#	40'	-0-	NONE
FRESH WATER						
COAL						
SURFACE CSG	11-3/4"	J-55	32#	300'	300'	As required by 38 CSR 18-11-3 38 CSR 18-11-2
INTERMEDIATE	8-5/8"	J-55	24#	2,300'	2,300'	As required by 38 CSR 18-11-3 38 CSR 18-11-2
PRODUCTION	4-1/2"	M-75	11.60#	8,500'	8,500'	As required by 38 CSR 38-11-1

PACKERS: Kind NONE
 Sizes
 Depths Set

096425
 24

For Division of Oil and Gas Use Only

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

Plat WW-9 WW-2B Bond Blanket Agent

RECEIVED
WV Division of
Environmental Protection
JUL 31 1996

1) Date: July 19, 1996
2) Operator's well number 2067
3) API Well No: 47 - 061 - 1247
State County Permit

Permitting
Office of Oil & Gas
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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 Ora Lee J. Ludwig
Address P. O. Box 676
Morgantown, WV 26505
(b) Name Thomas P. Johnson
Address P. O. Box 2248
Morgantown, WV 26505
(c) Name One Valley Bank, N.A. Trustee
Address Pearl J. Frazier
P. O. Box 698
Morgantown, WV 26505
6) Inspector Randal Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304)- 986-3324

5) (a) Coal Operator:
Name NO DECLARATION OF RECORD
Address _____
(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE OWNERS
Address _____
(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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

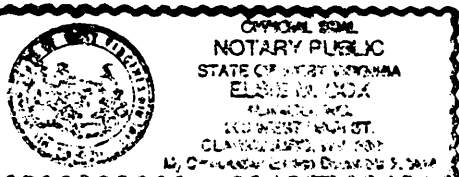
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 10 on the above named parties, by:
 Personal Service (Affidavit attached)
XX Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 Stepien
Its: Manager, Land
Address P. O. Box 1740
Clarksburg, WV 26302-1740
Telephone 304 623-6671



Subscribed and sworn before me this 19th day of July, 1996
Elsie M. Cox Notary Public
My commission expires December 9, 2002

RECEIVED
WV Division of
Environmental Protection

JUL 3 1 1996

Page 4 of 10

ATTACHMENT TO:
FORM WW-2B

Permitting
Office of Oil & Gas

WELL OPERATOR ALAMCO, INC.
OPERATOR WELL NO: 2067
FILE NUMBER 47-061- 1247

11. Proposed Well Work:

Well 2067 will be drilled to approximately 300' KB. The 11-3/4" casing will be set at approximately 300' KB and then cemented to the surface. The 8-5/8" casing set at approximately 2,300' KB and then cemented to surface. The well will then be drilled to 8,500' KB and the 4-1/2" casing set at approximately 8,500' KB. The 4-1/2" casing will be cemented to 7,100' KB. The well will then be hydraulically fractured in the Huntersville Chert Formation.

12. Plan for partial abandonment:

7R1
TO:
- 850e
= 3171-37
- 4800' 34
- 3700' 18
5200' 79



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

July 31, 1996

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

Re: Application for Permit #47-061-01247 to drill deep well.

COMPANY: ALAMCO, Inc.

FARM: Thomas Johnson, Jr. #2067

COUNTY: Monongalia DISTRICT: Clinton QUAD: Morgantown South

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

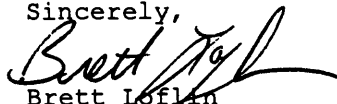
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

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 **850** 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
Engineer

*3,171 feet to 47-061-01237

4,800 feet to 47-061-01134

3,700 feet to 47-061-01218

5,200 feet to 47-061-01179