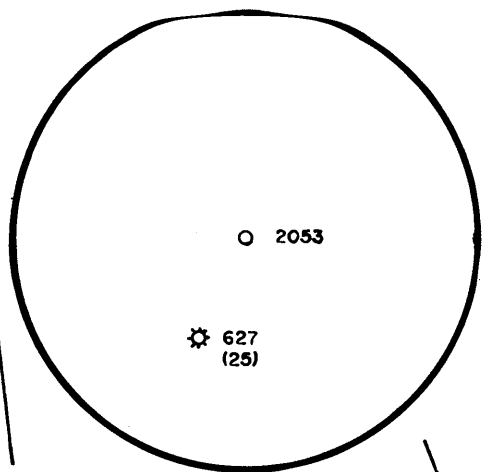
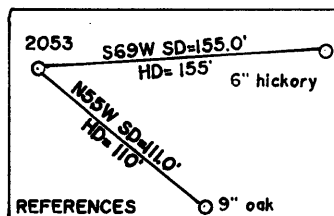
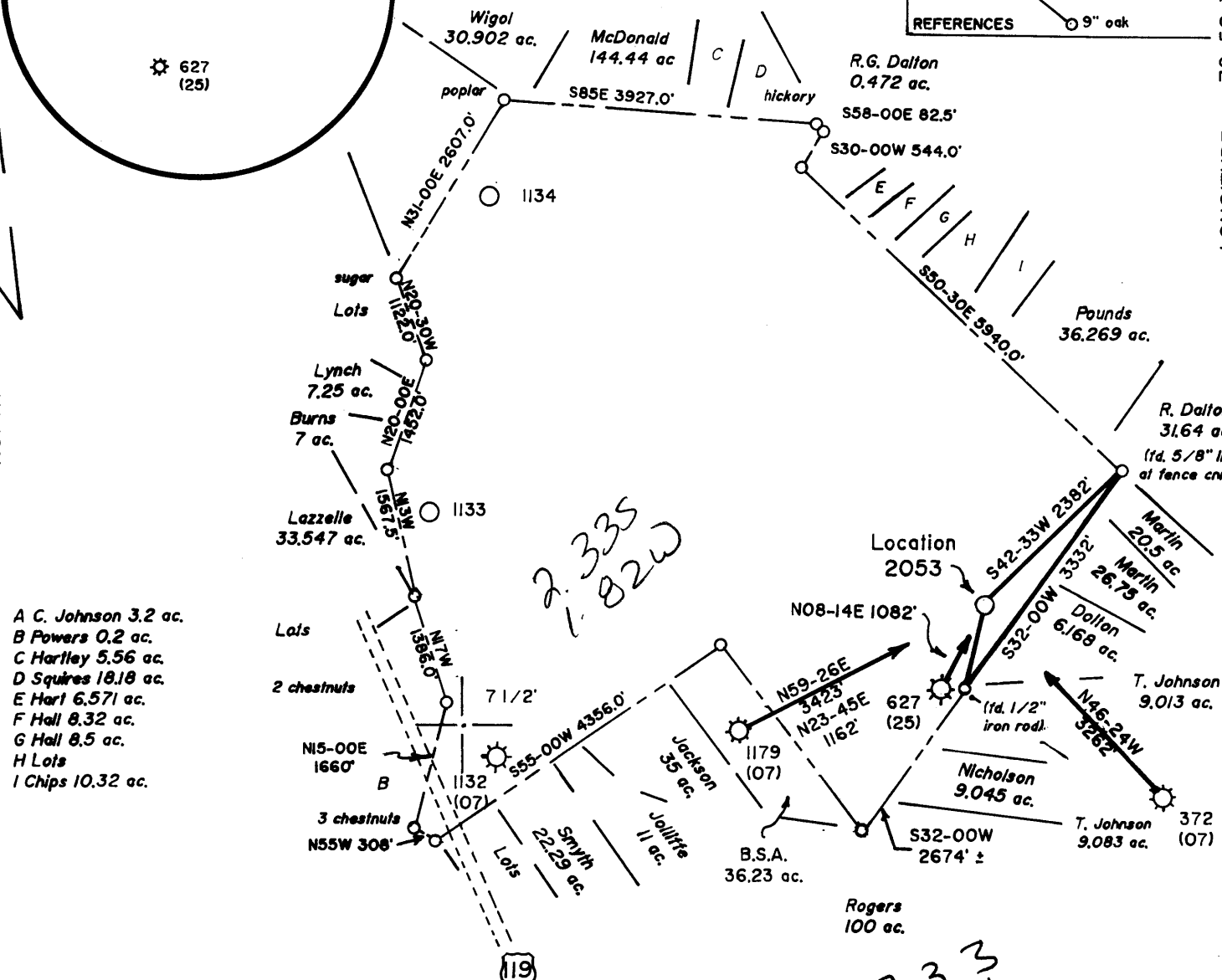


NOTE: Location is at least 400' from all lease lines.



NORTH

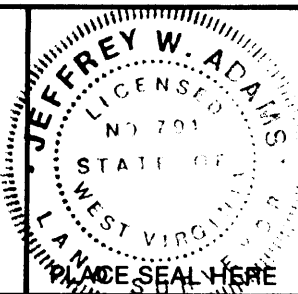
LONGITUDE 79-52-30 W



(+) 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. 7,200' 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 October 18, 19 95
OPERATOR'S WELL NO. 2053
API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1782 WATER SHED Cobun Creek
DISTRICT Clinton COUNTY Monongalia
QUADRANGLE Morgantown South 7 1/2'

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

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Oriskany ESTIMATED DEPTH 8200
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

6-6313

FORM WW-6

COUNTY NAME PERMIT

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WV Division of
Environmental Protection

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: LUDWIG, ORA LEE J. Operator Well No.: 2053

LOCATION: Elevation: 1,782.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 12215 Feet South of 39 Deg. 35Min. 0 Sec.
Longitude 9675 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: 11/01/95
Well work Commenced: 12/27/95
Well work Completed: 01/18/96
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 7882
Fresh water depths (ft) 30
Salt water depths (ft) 2700

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	40'	-	-
11-3/4"	339'	339'	Cmt. to surface 150 Sk.
8-5/8"	2029'	2029'	Cmt. to surface 615 Sk.
4-1/2"	-	7724'	180 Sk.

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

OPEN FLOW DATA

7402-
7525 Ft.
Producing formation Huntersville CherPay zone depth (ft) 7525 Ft.
Gas: Initial open flow 15 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2200 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 2600 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: [Signature] Richard R. Hoffman
Date: 01/24/96

FEB 5 1996

061 1218

Formations: 0-563' from Drillers Log Book - 563' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>
0	40	SD	<u>Water:</u> Damp @ 30' Damp @ 2700'
40	132	SD & SH	
132	150	SD	<u>Coal:</u> None
150	224	SD & SH	
224	234	SH	<u>Oil:</u> None
234	563	SD & SH	
563	576	Little Lime	<u>Gas Checks:</u>
576	602	SH	
602	682	Big Lime	1074' N/S
682	704	Keener	2054' 58 MCF/D
704	734	SH	4386' N/S
734	818	Big Injun	5998' N/S
818	952	SH	7882' 15 MCF/D
952	1031	Weir	
1031	1149	SH	
1149	1175	Gantz	
1175	1206	SH	
1206	1223	50'	
1223	1511	SH	<u>Treatment and Perforations:</u>
1511	1517	Gordon	<u>Stimulation:</u> 01/18/96
1517	1761	SH	<u>Perforations:</u> (7402-7525')
1761	1791	4th Sand	Huntersville Chert - 27 Holes
1791	1816	SH	
1816	1829	5th Sand	
1829	1859	SH	
1859	1939	Bayard	<u>Frac:</u> WF-30 w/ 15,000# 80/100 Sand and 60,000# 20/40 Sand in 1203 BBLs total fluid w/5% Hcl throughout.
1939	2514	SH	
2514	2534	Speechley	
2534	2664	SD & SH	
2664	2960	SH	
2960	3040	SD & SH	
3040	3920	SH	
3920	3980	SD	
3980	6987	SH	
6987	7089	Tully	
7089	7285	SH	
7285	7384	Marcellus	
7384	7399	Onondaga	
7399	7550	Huntersville	
7550	7579	Needmore	
7579	7588	Basal L.S.	
7588	7707	Oriskany	
7707	7882	Helderberg	
	7880	Drig. TD	
	7882	Log TD	

FEB 9 1990

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WV Division of
Environmental Protection

061-01218

Issued 11/01/95
Expires 11/01/97

FORM WW-2B
OCT 27 1995

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

Well Operator: ALAMCO, INC. 975¹⁰¹ (4) 435

Operator's Well Number 2053 3) Elevation: 1,782'

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

Proposed Target Formation(s): ORISKANY 475

Proposed Total Depth: 8,200 feet

Approximate fresh water strata depths: 290'

Approximate salt water depths: NONE

Approximate coal seam depths: 290'

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

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' C/S	As required by 38 CSR 18-11-3 38 CSR 18-11-2, 2
INTERMEDIATE	8-5/8"	J-55	24#	2,020'	2,020'	As required by 38 CSR 18-11-3 38 CSR 18-11-2, 2
PRODUCTION	4-1/2"	M-75	11.60#	7,980'	7,980'	As required by 38 CSR 38-11-1

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 Blanket Agent

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WV Division of Environmental Protection

OCT 27 1995

Permitting Office of Oil & Gas

Page 1 of 12
Form WW2-A
(09/87)
file Copy

1) Date: October 18, 1995
2) Operator's well number 2053
3) API Well No: 47 - 061 - 1218
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 Ora Lee J. Ludwig
Address P. O. Box 676 Morgantown, WV 26505
(b) Name Thomas J. Johnson, Jr.
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 SAME AS SURFACE OWNERS
Address

(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE OWNERS
Address

Name
Address

(c) Coal Lessee with Declaration
Name SAME AS SURFACE OWNERS
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 12 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 Leu
Its: Manager, Land
Address 200 West Main Street
Clarksburg, WV 26301
Telephone 304 623-6671

Subscribed and sworn before me this 18th day of October, 1995

[Signature] Notary Public
My commission expires December 9, 2002

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WV Division of
Environmental Protection

OCT 27 1995

Page 4 of 12

ATTACHMENT TO:
FORM WW-2B

Permitting
Office of Oil & Gas

WELL OPERATOR ALAMCO, INC.
OPERATOR WELL NO: 2053
FILE NUMBER 47-061- 01218

11. Proposed Well Work: *OK*

Well 2053 will be drilled to approximately 300' KB. The 11-3/4" casing will be set at approximately 300' KB and then cemented to surface. The well will then be drilled to 2,020' KB and the 8-5/8" casing will be set at approximately 2,020' KB and then cemented to surface. The well will then be drilled to 8,000' KB and the 4-1/2" casing set at approximately 7,980' 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:



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

November 1, 1995

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

Re: Application for Permit #47-061-01218 to drill deep well.

COMPANY: Alamco, Inc.

FARM: Thomas Johnson, Jr. Et al #2053

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 **400** 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
Brett Loflin (CR)
Engineer III

*3,423 feet to 47-061-01179
4,800 feet to 47-061-01174

3,262 feet to 47-061-00372