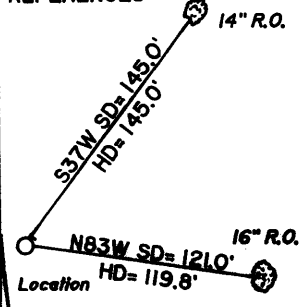
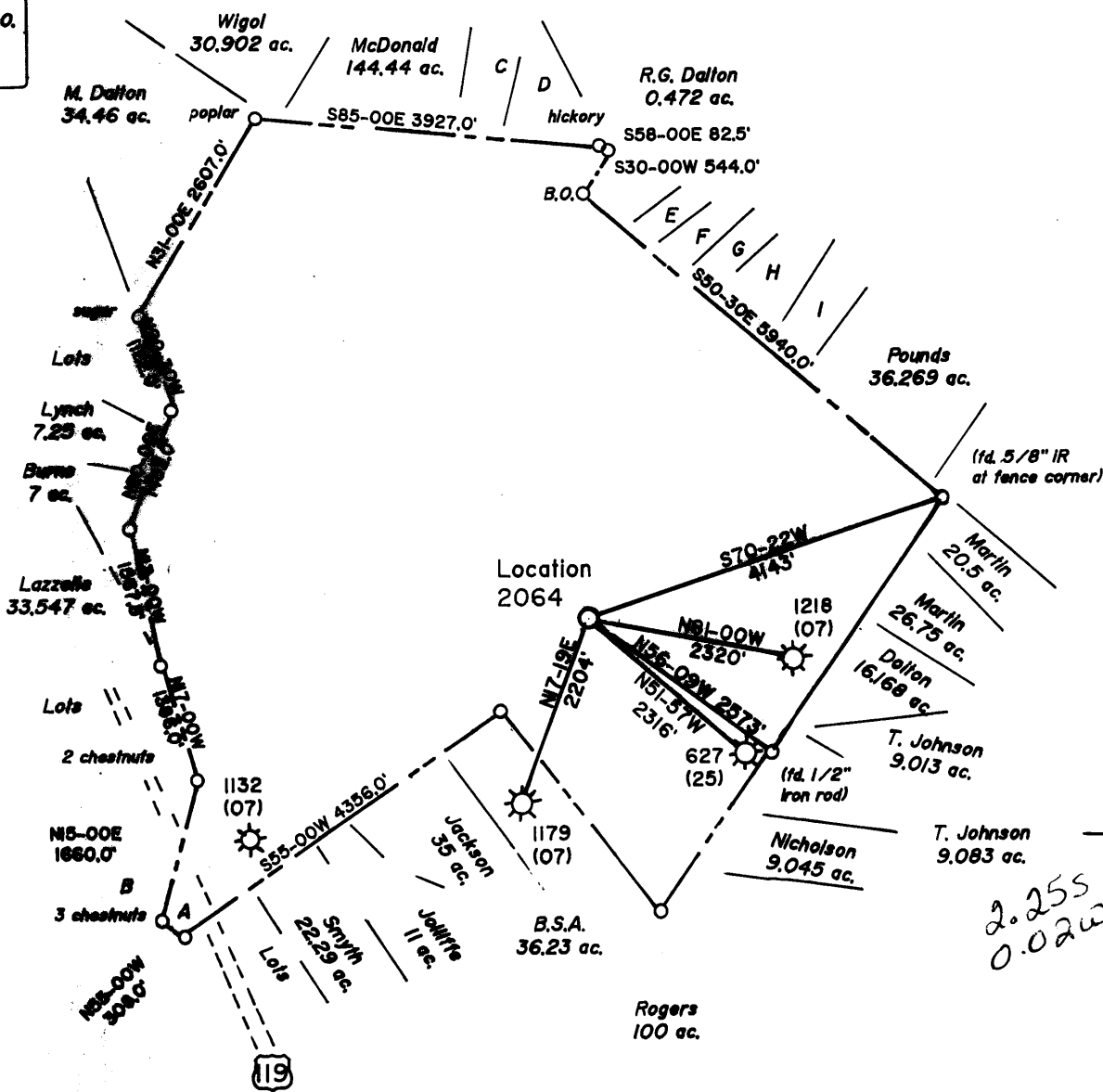


REFERENCES



James
9/2/96



NORTH

LONGITUDE 79-55-00W

- 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.

Note:
All wells within 2400'
are shown on Plat.

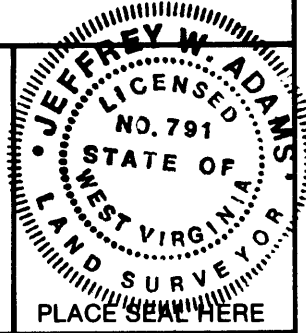
2.255
0.02w

(+) 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. 5500' 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 May 9, 19 96
 OPERATOR'S WELL NO. 2064
 API WELL NO. 47-061-01246
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1524 WATERSHED 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 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 8500
 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

AUG 2 1996

6-6 313

FORM WW-6

COUNTY NAME PERMIT

DEEP WELL

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Environmental Protection

WR-35

31-Jul-96
API # 47- 61-01246

SEP 23 1996

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.: 2064

LOCATION: Elevation: 1,524.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 11825 Feet South of 39 Deg. 35Min. 0 Sec.
Longitude 175 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: 07/31/96
Well work Commenced: 08/10/96
Well work Completed: 09/05/96

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 7535
Fresh water depths (ft) 23

Salt water depths (ft) 7374

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 13-16, 185-188, 290-298

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	30'	30'	None
11-3/4"	334'	334'	175 Sx To Surface
8-5/8"	2917'	2917'	835 Sx To Surface
4-1/2"	-	7507	200 Sx

OPEN FLOW DATA

Producing formation Huntersville Pay zone depth (ft) 7322 - 7410
 Gas: Initial open flow 215 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 2420 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 2375 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: 9-19-96

Formations: 0-577' from Drillers Log Book - 577' 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" Stream @ 23'	
5	13	SD & SH	Damp @ 7374'	
13	16	Coal	<u>Coal:</u> 13' - 16'	
16	185	SD & SH	185' - 188'	
185	188	Coal	290' - 298'	
188	290	SD & SH	<u>Oil:</u> Odor @ 1846'	
290	298	Coal	<u>Gas Checks:</u>	
298	577	SD & SH	1417'	N/S
577	591	Little Lime	1724'	N/S
591	631	SH	1970'	N/S
631	699	Big Lime	2772'	15 MCF/D
699	715	Keener	2803'	21 MCF/D
715	752	SD & SH	2956'	Odor
752	844	Big Injun	7096'	N/S
844	855	SH	7318'	N/S
855	874	Squaw	7535'	215 MCF/D
874	956	SH	<u>Treatment and Perforations:</u>	
956	1065	Weir	7322' - 7410; (23 holes)	
1065	1183	SH	Frac:	
1183	1198	Gantz	WF-30 w/15,000# 80/100	
1198	1228	SH	Sand and 60,000# 20/40 Sand	
1228	1248	50'	w/5% HCl throughout.	
1248	1530	SD & SH		
1530	1539	Gantz		
1539	1783	SH & SD		
1783	1812	4th Sand		
1812	1839	SH		
1839	1847	5th Sand		
1847	1883	SH		
1883	1951	Bayard		
1951	2559	SH & SD		
2559	2572	Speechley		
2572	2777	SH		
2777	2791	Balltown		
2791	4500	SH & SD		
4500	6912	SH		
6912	6994	Tully		
6994	7207	SH		
7207	7306	Marcellus		
7306	7320	Onondaga		
7320	7513	Huntersville		
		Chert		
7513	7535	Oriskany		

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Environmental Protection

JUL 31 1996

661-1246

FORM WW-2B

Permitting
Office of Oil & Gas

Page 3 of 10

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

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

Well Operator: ALAMCO, INC. ⁰¹⁰ 975 (4) 485

Operator's Well Number 2064 3) Elevation: 1,524'

Well 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: 7,600 feet

Approximate fresh water strata depths: 85'

Approximate salt water depths: NONE

Approximate coal seam depths: 85'

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'	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
INTERMEDIATE	8-5/8"	J-55	24#	2,029'	2,029'	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
PRODUCTION	4-1/2"	M-75	11.60#	7,690'	7,690'	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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Environmental Protection

JUL 3 1 1996

Permitting
Office of Oil & Gas

WELL OPERATOR ALAMCO, INC.
OPERATOR WELL NO: 2064
FILE NUMBER 47-061- 1246

11. Proposed Well Work:

Well 2064 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 2,029' KB and then cemented to surface. The well will then be drilled to 7,690' KB and the 4-1/2" casing set at approximately 7,690' KB. The 4-1/2" casing will be cemented to 6,975' KB. The well will then be hydraulically fractured in the Huntersville Chert Formation.

061-01246

12. Plan for partial abandonment:

1400' to lease line

3000' to 061-01247 Proposed
2320' to 061-01218 Exception Loc.
3600' to 061-01237
2204' to 061-01179 Exception
5100' to 061-01174
4600' to 061-01132
4700' to 061-01133



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 #47-061-01246 to drill deep well.

COMPANY: ALAMCO, Inc.

FARM: Thomas Johnson, Jr. #2064

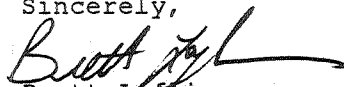
COUNTY: Monongalia DISTRICT: Clinton QUAD: Morgantown South

The application of the above company is Approved for Huntersville/Chert
(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 **1400** 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

*3,000 feet to 47-061-01247 proposed
2,320 feet to 47-061-01218 exception
3,600 feet to 47-061-01237
2,204 feet to 47-061-01179 exception
5,100 feet to 47-061-01174
4,600 feet to 47-061-01132
4,700 feet to 47-061-01133

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WV Division of Environmental Protection

JUL 31 1996

Page 1 of 10
Form WW2-A
(6/94)
File Copy

1) Date: July 19, 1996
2) Operator's well number 2064
3) API Well No: 47 - 061 - 1246
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
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
6) Inspector Randal Mick, Address 111 Blackshere Drive Mannington, WV 26582, Telephone (304)- 986-3324

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:

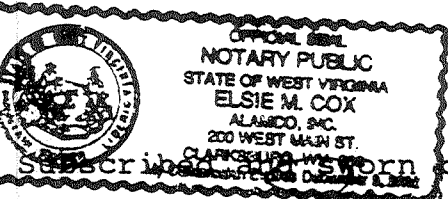
- Personal Service (Affidavit attached)
XX Certified Mail (Postmarked postal receipt attached)
Publication (Notice of Publication attached)

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 Levi
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