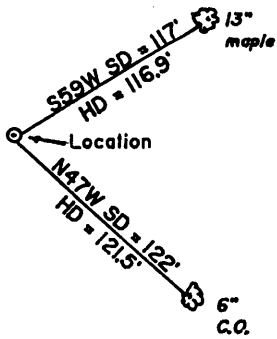


REFERENCES



Note:

Location is at least 400' from all outside lease lines

There are no wells within 3000' of the Location.

0.70  
1.01

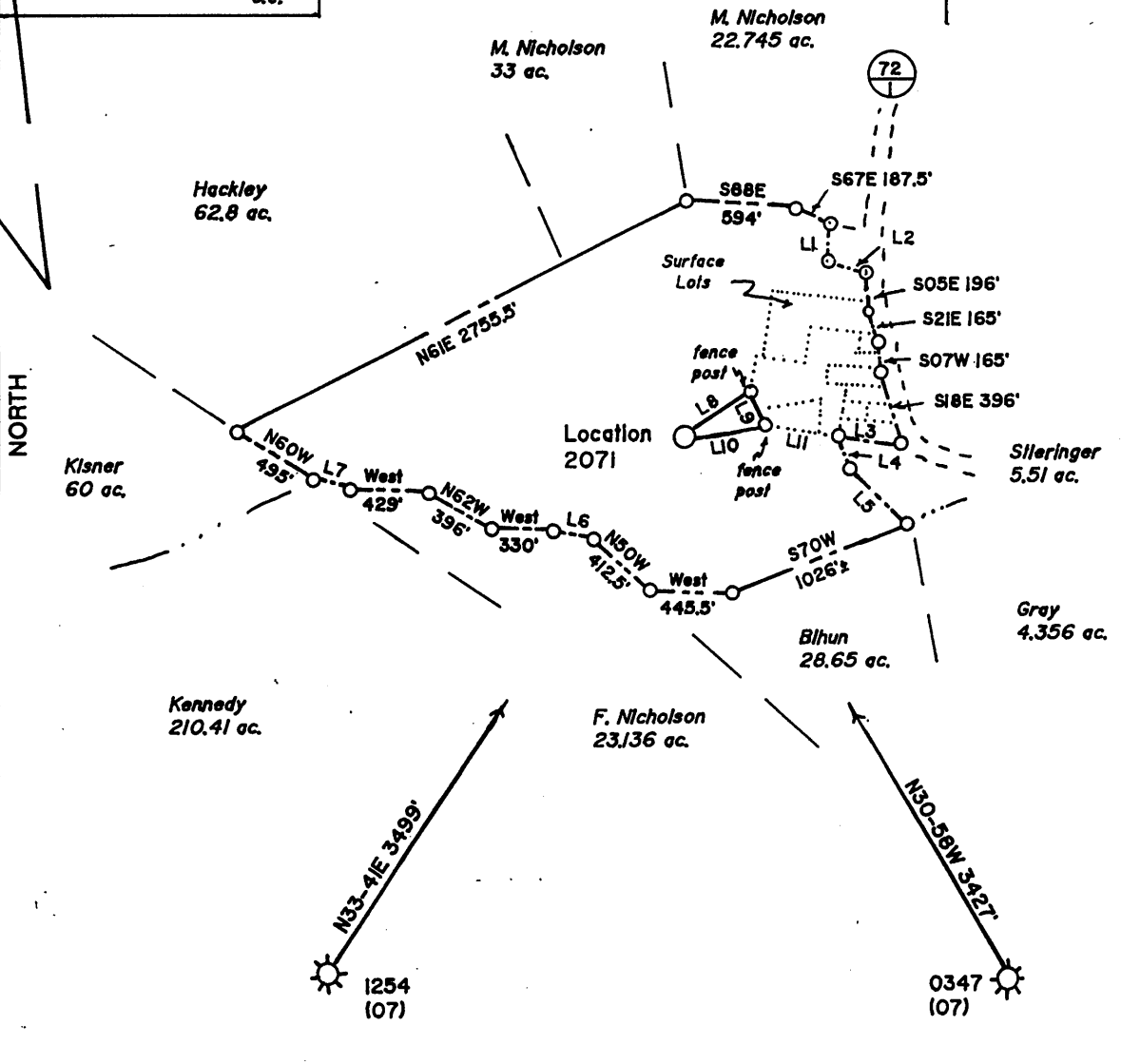
7 1/2'

LINE TABLE

- L1 S03-47E 200.0'
- L2 S71-17E 225.0'
- L3 N83-05W 358.5'
- L4 S24-02E 192.2'
- L5 S47-13E 439.7'
- L6 N80-00W 231.0'
- L7 N77-00W 206.2'
- L8 S54-46W 432'
- L9 N24-05W 194'
- L10 S80-29W 438'
- L11 N82-30W 397.4'

NORTH

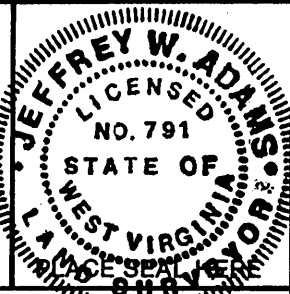
LONGITUDE 79-52-30 W



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Road Intersection 1550'  
East of Location: elev. 1888'

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 14  
 OPERATOR'S WELL NO. 2071  
 API WELL NO. 47 061 01258

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

LOCATION: ELEVATION 1795 WATER SHED Laurel Run  
 DISTRICT Morgan COUNTY Monongalia  
 QUADRANGLE Morgantown South 7 1/2'

SURFACE OWNER William N. Nicholson et ux ACREAGE 88.286  
 OIL & GAS ROYALTY OWNER William N. Nicholson et ux LEASE ACREAGE 110  
 LEASE NO. 4954

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 Helderberg 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

DEEP WELL 6-6 313

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: NICHOLSON, WILLIAM N. Operator Well No.: 2071

LOCATION: Elevation: 1,795.00 Quadrangle: MORGANTOWN SOUTH

District: MORGAN County: MONONGALIA  
Latitude: 3675 Feet South of 39 Deg. 35Min. 0 Sec.  
Longitude 5400 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: 10/30/96  
Well work Commenced: 11/07/96  
Well work Completed: 12/11/96  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 7764  
Fresh water depths (ft) 141

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft.      |
|----------------------|------------------|--------------|-----------------------------|
| 16"                  | 15'              | 0            | N/A                         |
| 11-3/4"              | 339'             | 339'         | Cmt. to Surface<br>195 Sks. |
| 8-5/8"               | 2942'            | 2942'        | Cmt. to Surface<br>850 Sks. |
| 4-1/2"               | 7749'            | 7749'        | 175 Sks.                    |

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 26 - 30

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 7436'-7564'  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 11,025 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 3450 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]  
Date: 12/11/96

Formations: 0-543' from Drillers Log Book; 543' to TD from Gamma Ray Log

| <u>Top</u> | <u>Bottom</u> | <u>Type</u>  | <u>Water, Coal, Gas</u>               |         |
|------------|---------------|--------------|---------------------------------------|---------|
| 0          | 2             | Fill         | <u>Water:</u> 1/2" @ 141'             |         |
| 2          | 26            | SD           |                                       |         |
| 26         | 30            | Coal         | <u>Coal:</u> 26' - 30'                |         |
| 30         | 74            | SD & SH      |                                       |         |
| 74         | 103           | SD           | <u>Oil:</u> None                      |         |
| 103        | 174           | SD & SH      |                                       |         |
| 174        | 242           | SD           | <u>Gas Checks:</u>                    |         |
| 242        | 362           | SD & SH      |                                       |         |
| 362        | 392           | SD           | 921'                                  | N/S     |
| 392        | 543           | SD           | 1447'                                 | N/S     |
| 543        | 557           | Little Lime  | 1910'                                 | N/S     |
| 557        | 595           | SH           | 2001'                                 | Odor    |
| 595        | 659           | Big Lime     | 2408'                                 | Odor    |
| 659        | 680           | Keener       | 2624'                                 | Odor    |
| 680        | 714           | SH           | 2807'                                 | N/S     |
| 714        | 837           | Big Injun    | 3791'                                 | N/S     |
| 837        | 916           | SH           | 4287'                                 | 84 MCFD |
| 916        | 1028          | Weir         | 4691'                                 | 15 MCFD |
| 1028       | 1144          | SH           | 5554'                                 | 32 MCFD |
| 1144       | 1209          | Gantz/50'    | 6115'                                 | 26 MCFD |
| 1209       | 1499          | SD & SH      | 6610'                                 | 21 MCFD |
| 1499       | 1504          | Gordon       | 7203'                                 | 21 MCFD |
| 1504       | 1741          | SD & SH      | 7421'                                 | 15 MCFD |
| 1741       | 1752          | 4th Sand     | 7453'                                 | 15 MCFD |
| 1752       | 1805          | SH           | 7514'                                 | 21 MCFD |
| 1805       | 1814          | 5th Sand     | 7576'                                 | 21 MCFD |
| 1814       | 1852          | SD & SH      | 7640'                                 | 21 MCFD |
| 1852       | 1895          | Bayard       | 7764'                                 | 15 MCFD |
| 1895       | 2532          | SH           |                                       |         |
| 2532       | 2632          | Speechley    |                                       |         |
| 2632       | 2718          | SH           | <u>Treatment and Perforations:</u>    |         |
| 2718       | 2730          | Balltown     |                                       |         |
| 2730       | 7020          | SH           | Stimulation: 12/11/96                 |         |
| 7020       | 7120          | Tully        |                                       |         |
| 7120       | 7318          | SH           | Perforations: (7436' - 7564')         |         |
| 7318       | 7419          | Marcellus    | 30 Holes                              |         |
| 7419       | 7433          | Onondaga     |                                       |         |
| 7433       | 7582          | Hntrsvl Chrt | Frac: Huntersville Chert              |         |
| 7582       | 7621          | Needmore     | WF-30# gel system with                |         |
| 7621       | 7683          | Oriskany     | 15,000# 80/100 Sand and 60,000# 20/40 |         |
| 7683       | 7764          | Helderberg   | Sand w/ 5% HCl throughout             |         |
|            | 7764          | Drlg. T. D.  |                                       |         |
|            | 7778          | Log T. D.    |                                       |         |

061-1258

RECEIVED  
WV Division of  
Environmental Protection

Issued 10/30/96  
Expires 10/30/98

OCT 30 1996

Page 3 of 11

FORM WW-2B

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

Well Operator: ALAMCO, INC. <sup>0010</sup> 975 (6) 485

Operator's Well Number 2071 3) Elevation: 1,795'

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

Proposed Target Formation(s): Helderberg 485

5) Proposed Total Depth: 8,300 feet

7) Approximate fresh water strata depths: 100'

3) Approximate salt water depths: \_\_\_\_\_

9) Approximate coal seam depths: \_\_\_\_\_

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         | SIZE    | GRADE | WEIGHT PER FT | FOR DRILLING | FOOTAGE INTERVALS | CEMENT   |
|--------------|---------|-------|---------------|--------------|-------------------|--|
| CONDUCTOR    | 16"     | LS    | 32#           | 30'          | -0-               | NONE   |
| FRESH WATER  |         |       |               |              |                   |  |
| COAL         |         |       |               |              |                   |  |
| SURFACE CSG  | 11-3/4" | J-55  | 32#           | 300'         | 300'              | As required by<br>38 CSR 18-11-3<br>38 CSR 18-11-2 |
| INTERMEDIATE | 8-5/8"  | J-55  | 24#           | 2,900'       | 2,900'            | As required by<br>38 CSR 18-11-3<br>38 CSR 18-11-2 |
| PRODUCTION   | 4-1/2"  | M-75  | 11.60#        | 8,300'       | 8,300'            | As required by<br>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 \_\_\_\_\_  Agent

22761

098441  
36

**RECEIVED**  
WV Division of  
Environmental Protection  
OCT 30 1996

Date: October 17, 1996  
Operator's well number  
2071  
API Well No: 47 - 061 - 1258  
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 William N. Nicholson  
Address Maxine N. Nicholson  
Route 3, Box 151  
(b) Name Morgantown, WV 26505  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
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 \_\_\_\_\_  
Name \_\_\_\_\_  
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 11 on the above named parties, by:

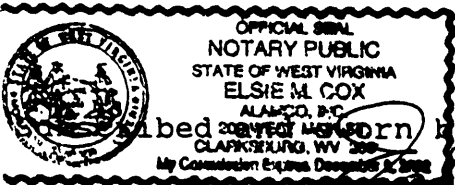
- Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 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: *Monty D. Dese*  
Its: Manager, Land  
Address P. O. Box 1740  
Clarksburg, WV 26302-1740  
Telephone 304 623-6671



         subscribed and sworn before me this 18th day of October, 1996  
*Elsie 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 31, 1996

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

Re: Application for Permit #47-061-01258 drill deep well.

COMPANY: Alamco, Inc.

FARM: William Nicholson #2071

COUNTY: Monogalia DISTRICT: Morgan QUAD: Morgantown South

The application of the above company is Approved for Helderburg.  
(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 **800** 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 (CR)*  
Brett Loflin  
Engineer

\*3,499 feet to 47-061-01254  
3,427 feet to 47-061-00347  
4,200 feet to 47-061-00321