

6-6

Wilhur

ngs)

API # 47-95-01403 State of West Virginia

RECEIVED DEPARTMENT OF ENERGY Division of Oil and Gas

SEP 11 100 Well Operator's Report of Well Work

Farm name

MARVIN Operator Well No.: LEGRANDE 1 ాక్స్ క్లిక్ కోమా గ్రామం ఉంది. అంటాకోయ

LOCATION:

Elevation: 998.00 Quadrangle: SHIRLEY 600.50 . ...

District: MCELROY

District: MCELROY County: TYLER
Latitude: 13090 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 8680 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP

P. O. BOX 99

ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON

Permit Issued: 07/11/90 Well work Commenced: <u>7/25/90</u> Well work Completed: 8/8/90

Verbal Plugging

Permission granted on:

Rotary X Cable Ri
Total Depth (feet) 5069' Fresh water depths (ft) 200

Salt water depths (ft) 1400'.1505'

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

| Casing<br>  &<br>  Tubing | Used in Drilling |         | Cement<br> Fill Up<br> Cu. Ft. |
|---------------------------|------------------|---------|--------------------------------|
| Size                      |                  |         |                                |
| 11"                       | 86.35            | 86.35   | * CTS                          |
| 8- <i>5/</i> 8"           | 1412.85          | 1412.85 | CTS<br>' 300sk                 |
| 4-1/2"                    | 4942.25'         |         | 365sk HI<br>170sk Th           |
|                           | ; ·              |         |                                |
|                           |                  |         |                                |

OPEN FLOW DATA

4851-56' 4430-36'

Producing formation Riley/Benson sands Pay zone depth (ft) Gas: Initial open flow <u>Show</u> MCF/d Oil: Initial open flow Final open flow 658 MCF/d Final open flow 0 Bb1/d Time of open flow between initial and final tests Hours Static rock Pressure 1550 psig (surface pressure) after 24 Hours

Second producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow 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: DRILLING APPALACIMAN CORP

SEP 1 4 1990

Perforated 1st stage at 4851-4856', 20 shots, .039"

Fraced 1st stage with 20# gelled water, 5000#, 80/100 & 35,000# 20/40 sand, 57,000 SCF Nitrogen gas. Formation break at 2850 psi, avg psi 2437, avg fluid rate 21 bbl/min, ISIP 1597 psi.

Perforated 2nd stage at 4430'-4436', 24 shots, 0.39"

Fraced 2nd stage with 20# gelled water, 10,000# 80/100, 25,000# 20/40 sand, 37,000 SCF Nitrogen gas. Formation break at 2900 psi, avg psi 2401, avg fluid rate 19.6 bbl /min ISIP 1939 psi, 10 min shut in psi 1318.

|                      | • •                    |
|----------------------|------------------------|
| Permian Sands/Shales | Surface- 500           |
| Pennsylvanian        |                        |
| Sands/Shales         | 500 1500               |
| Third_Salt_Sand      |                        |
| Shale                |                        |
| Maxon Sand           |                        |
| Shale                | 1684 1690<br>1691 1759 |
| Big Lime             | 1760 1862              |
| Shale                | 1863 1872              |
| Big Injun Sand       | 1873 1916              |
| Shale                | 1917 1925              |
| Squaw Sand           | 1926 1960              |
| Shale                | 1960 2129              |
| Weir Sand            | 2130 2226              |
| Shale                | 2227 2322              |
| Berea Horizon        | 2323 2324              |
| Shale                | 2325 2555              |
| Thirty Foot          | 2556 2560              |
| Shale                | 2561 2755              |
| Gordon               | 2756 2772              |
| Shale                | 2773 3239              |
| Warren               | 3240 3284              |
| Shale                | 3285 3671              |
| Speechley            | 3672 3698              |
| Shale/Siltstone      | 3699 3855              |
| Balltown             | 3856 3888              |
| Shale/siltstone      | 3889 4413              |
| Riley                | 4414 4460              |
| Shale/Siltstone      | 4461 4833              |
| Benson               | 4834 4837 show gas     |
| TD                   | 5069                   |

FORM WW-2B

## STATE OF WEST VIRGINIA EXPLOSED 07 11 92 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

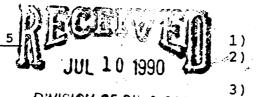
|                     |               | WELL WI   | OKK PERMIT                            | APPLICATIO                 | <u>N</u>     |                              |
|---------------------|---------------|-----------|---------------------------------------|----------------------------|--------------|------------------------------|
| 1) Well Op          | erator:_      | DRILLING  | APPALACHIAN                           | CORPORATION                |              |                              |
| 2) Operato          | r's Well      | Number:_  | LeGRANDE #1                           | L                          | 3) E         | levation: 898                |
|                     |               |           | or Ga:                                |                            |              |                              |
|                     |               |           |                                       | n <u>x</u> / Underg        | cound Stora  | ae /                         |
|                     |               |           | Deep                                  | P/                         | Shall        | ow <u>x</u> /                |
| 5) Propose          | d Target      | Formation | n(s): <u>Bens</u>                     | son/Riley <sup>4</sup> (€) |              |                              |
| 5) Proposed         | d Total D     | epth:     | 5300±                                 | feet                       |              |                              |
| 7) Approxi          | mate fres     | h water s | strata depi                           | ths: 90'                   | 1/30         |                              |
| 3) Approxim         | mate salt     | water de  | epths:                                | 1500'                      |              |                              |
| ) Approxi           | mate coal     | seam dep  | oths:                                 | DK .                       |              |                              |
| LO) Does lar        | nd contai     | n coal se | eams tribut                           | ary to acti                | ve mine?     | Yes/ No_x                    |
|                     |               |           |                                       | te, stimulate              |              |                              |
| .2)                 | ·             |           | -                                     |                            |              | -                            |
|                     |               | CASIN     | IG AND TUBI                           | NG PROGRAM                 |              |                              |
| YPE                 | S             | PECIFICAT | IONS                                  | FOOTAGE IN                 | TERVALS      | CEMENT                       |
|                     | Size          | Grade     | Weight<br>per ft.                     | For<br>drilling            | Left in well | Fill-up                      |
| onductor            | 11-3/4"       | H-40      | 42#                                   | 100'                       | 100'         | CTS                          |
| resh Water          |               |           |                                       |                            |              |                              |
| oal                 |               |           |                                       |                            |              |                              |
| ntermediate         | 8-5/8"        | J-55      | 23#                                   | 1400'                      | 1400'        | 38CSR18-11.2<br>38CSR18-11.3 |
| roduction           | 4-1/2"        | J-55      | 10.5#                                 | 5038'                      | 5038'        | 38CSR18-11.1                 |
| ubing               |               |           |                                       |                            |              |                              |
| iners               |               |           |                                       |                            | in.          | NATE OF                      |
|                     | d             |           |                                       |                            | 1812         | الم العلاق                   |
| ACKERS ! Kin        | <b>~</b>      |           | · · · · · · · · · · · · · · · · · · · |                            | 1811         |                              |
| ACKERS : Kin<br>Siz | es<br>ths set |           |                                       |                            | ପ୍ରପ         | JUL 10: 1990                 |

Well Work Perport

lamation Fund

, WPCP

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



Date: July 9, 1990 Operator's well number . LeGRANDE #2

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY API Well No: 47 - 095 State - County - Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

|        | NOTICE AN  | D APPLICATION F  | FOR A WELL WOR  | K PERMIT       |             |
|--------|--|------------------|-----------------|----------------|-------------|
| 4)     | Surface Owner(s) to  | ho corved.       | E) (=)          | 0              |             |
|        | (a) Name <u>Marvin LeG</u>   | ne served:       | 5) (a) Coal     | Operator:      |             |
|        | Address HCR 74, Bo   | y 77             | Name            |                |             |
|        | Wilbur, WV   |                  | radiess         |                |             |
|        | (b) Name   | 20320            | (b) Coal Own    | er(s) with 1   | Declaration |
|        | Address  |                  |                 |                |             |
|        |  |                  | Name            |                |             |
|        | (c) Name   |                  | drcbb           | <del></del>    |             |
|        | Address  |                  | Name            | **             |             |
|        |  |                  | Address         |                |             |
|        |  |                  |                 |                |             |
| 6)     | Inspector Glen Robin   | son              | (c) Coal Les    | see with Dec   | claration   |
|        | Address Rt 1, #6 M   | t. Pleasant Est. | Name            |                |             |
|        | Mineral We   | lls, WV 26150    | Address         |                |             |
|        | Telephone (304)- <u>48</u>   | 9-2736           |                 |                |             |
|        |  |                  |                 |                |             |
|        | TO THE PER   | SON(S) NAMED AE  | OVE TAKE NOTI   | CE THAT:       |             |
|        |  |                  |                 |                |             |
|        | Included is the lea  | se or leases or  | other contin    | uing contrac   | ct or       |
| cont   | racts by which I hol   | d the right to   | extract oil a   | nd das OR      |             |
| X      | Included is the inf  | ormation requir  | ed by Chapter   | 22B. Articl    | le 1,       |
| Sect   | ion 8(d) of the Code   | of West Virgin   | ia (see page    | 21             |             |
|        | I certify that as r  | equired under C  | hapter 22B of   | the West Vi    | rginia Code |
| I ha   | ve served copies of  | this notice and  | application.    | a location     | plat, and   |
| acco   | mpanying documents p   | ages l through   | 5 on the ab     | ove named pa   | arties, by: |
|        | Personal Servi   | ce (Affidavit a  | ttached)        |                | , -         |
|        | Certified Mail   | (Postmarked po   | stal receipt    | attached)      |             |
|        | Publication (N   | otice of Public  | ation.attache   | d)             |             |
|        |  |                  |                 |                |             |
|        | I have read and und  | erstand Chapter  | 22B and 38 C    | SR 11-18, ar   | nd I agree  |
| to t   | ne terms and conditi   | ons of any perm  | it issued und   | er this appl   | lication.   |
|        | I certify under pen  | alty of law tha  | t I have pers   | onally exami   | ined and am |
| fami.  | liar with the inform   | ation submitted  | on this appl    | ication form   | n and all   |
| atta   | coments, and that ba   | sed on my ingui  | ry of those i   | ndividuals i   | mmediately  |
| resp   | onsible for obtainin   | g the informati  | on, I believe   | that the ir    | formation   |
| is t   | rue, accurate, and c   | omplete.         |                 |                |             |
|        | I am aware that the  | re are signific  | ant penalties   | for submitt    | ing false   |
| نعثمنم | rmation, including t   | he possibility   | of fine and i   | mprisonment.   | ,           |
| A SEE  | - The state of the | Well Operator    | DRILLING APPALA | CHIAN CORPORAT | 'ION        |
| EY a.  | OFFICIAL SEAL<br>NOTARY PUBLIC   | By:              | Kenneth W       | lean /         |             |
| F.F.   | DE STATE OF WEST VIRGINIA  | Its:             | President       | ,              |             |
| 1.65   | J. L. MASON<br>P. O. Box 48  | Address          | P. O. Box 99    |                |             |
|        |  |                  | Alma, WV 26320  | -0099          |             |
|        | Jan. 28, 1997  | Telephone        | (304) 758-4638  |                |             |
| Subso  | cribed and sworn bef   | ore me this 9t   | h day, of/      | July           | , 19 90     |
|        |  |                  |                 |                |             |
|        |  |                  | Milleson        | -> No          | tary Public |
| My Co  | ommission expires  | 1/28/97          | //              |                |             |