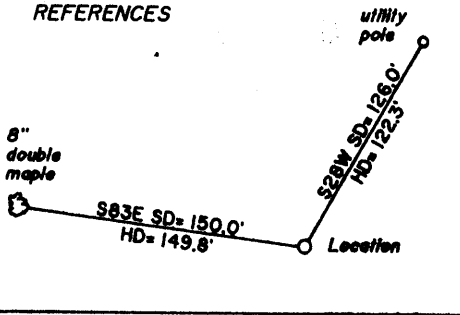
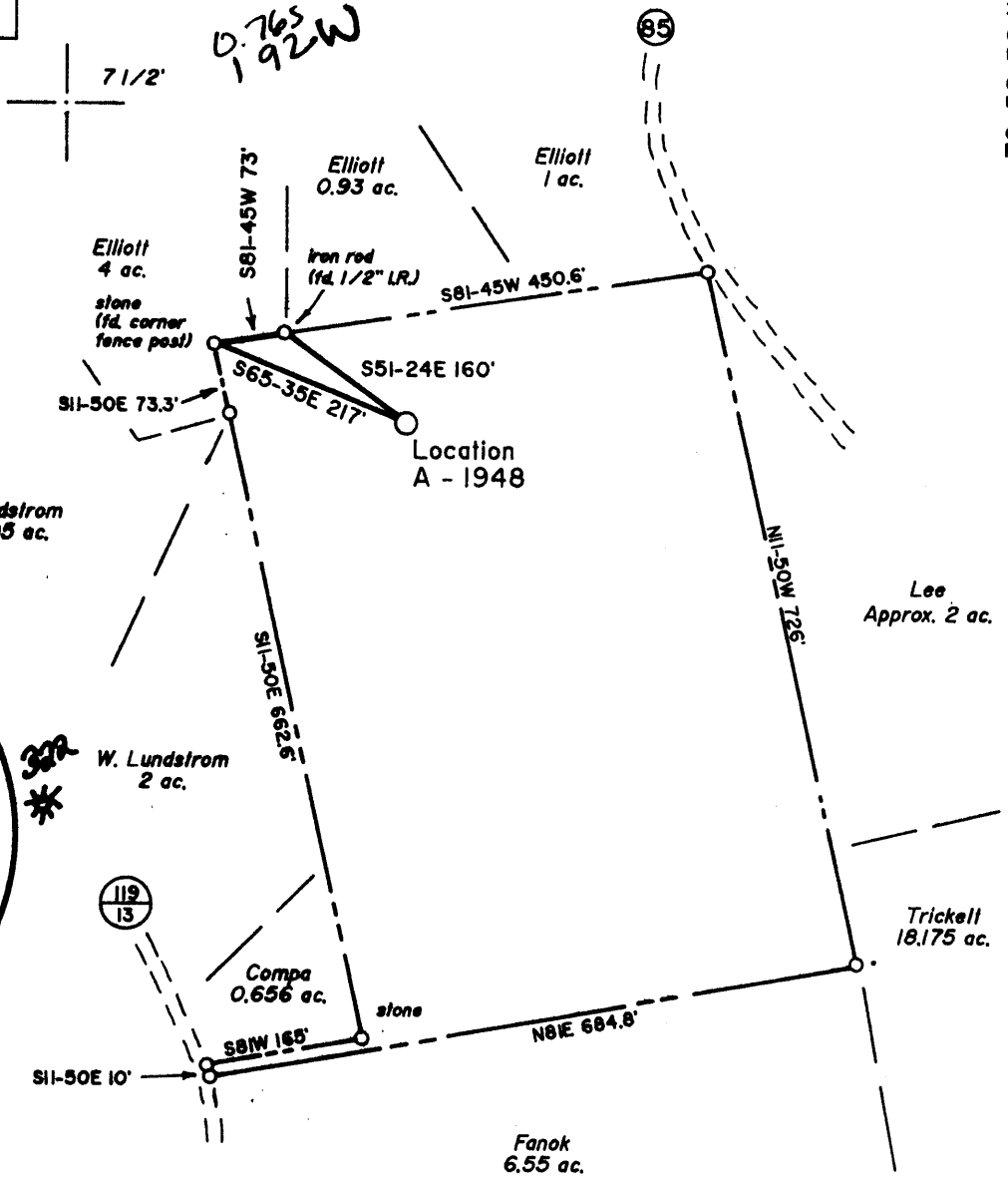
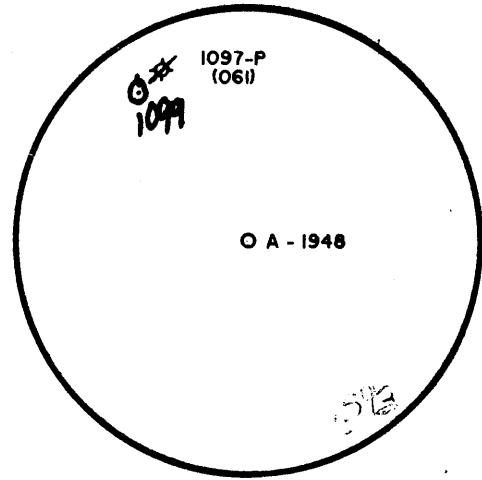


Janie
4/5/93

REFERENCES



NORTH

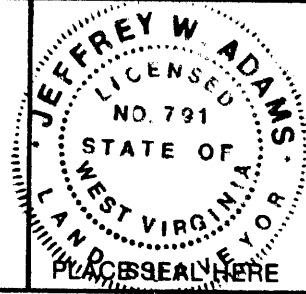


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road intersection 2200'
NW of Location: elev. 1988'

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 April 2, 19 93
 OPERATOR'S WELL NO. A-1948
 API WELL NO. _____

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

47 - 061 - 1100
 STATE COUNTY PERMIT

LOCATION: ELEVATION 2045 WATER SHED Laurel Run
 DISTRICT Clinton COUNTY Monongalia
 QUADRANGLE Gladesville 7 1/2' Thornton NC

SURFACE OWNER Delmas Ray Lee Sr. et. al. ACREAGE 9
 OIL & GAS ROYALTY OWNER Delmas Ray Lee Sr. et. al. LEASE ACREAGE 11
 LEASE NO. 4632

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 4th Sand ESTIMATED DEPTH 2300
 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

FORM WW-6

COUNTY NAME

PERMIT

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

Environmental Protection
MAY 05 93
Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: LEE, DELMAS RAY, SR. Operator Well No.: A-1948

LOCATION: Elevation: 2,045.00 Quadrangle: GLADESVILLE

District: CLINTON County: MONONGALIA
Latitude: 4100 Feet South of 39 Deg. 30Min. Sec.
Longitude 10125 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: ALAMCO, INC.
200 W. MAIN ST., P.O. BOX 1740
CLARKSBURG, WV 26302-1740

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 11 3/4" | 40' | 0 | None |
| 8 5/8" | 746' | 746' | To Surface |
| 4 1/2" | 1912' | 1912' | 180 Cu. Ft. |
| | | | |
| | | | |

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 04/05/93
Well work Commenced: 04/07/93
Well work Completed: 04/21/93
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 1934' KB
Fresh water depths (ft) 170'
Salt water depths (ft) None
Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

OPEN FLOW DATA

Producing formation Fourth Sand Pay zone depth (ft) 1801'-1826'KI
Gas: Initial open flow 0 MCF/d Oil: Initial open flow - Bbl/d
Final open flow No Test MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure No Test psig (surface pressure) after - 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.

Reviewed TH6
Recorded _____

For: ALAMCO, INC.
By: [Signature] Richard R. Hoffman
Date: _____

| | | |
|------|------|-------------|
| 0 | 8 | KB to GL |
| 8 | 435 | SD/SH |
| 435 | 462 | SH/Red Rock |
| 462 | 560 | SD/SH |
| 560 | 590 | SH/Red Rock |
| 590 | 694 | SD/SH |
| 694 | 814 | Big Lime |
| 814 | 820 | SD/SH |
| 820 | 935 | Big Injun |
| 935 | 1009 | SH |
| 1009 | 1089 | Weir |
| 1089 | 1112 | Berea |
| 1112 | 1227 | SH |
| 1227 | 1238 | Gantz |
| 1238 | 1256 | SD/SH |
| 1256 | 1278 | SD |
| 1278 | 1296 | SH |
| 1296 | 1351 | 50' |
| 1351 | 1390 | SD/SH |
| 1390 | 1430 | 30' |
| 1430 | 1546 | SH |
| 1546 | 1554 | Gordon |
| 1554 | 1801 | SD/SH |
| 1801 | 1826 | 4th Sand |
| 1826 | 1928 | SH/SD |
| 1928 | | Log TD |

Hole Damp @ 170' KB

Gas check @ 808' KB - N/S
 Gas check @ 934' KB - N/S
 Gas check @ 1029' KB - N/S
 Gas check @ 1091' KB - N/S
 Gas check @ 1122' KB - N/S
 Gas check @ 1246' KB - N/S
 Gas check @ 1402' KB - N/S
 Gas check @ 1746' KB - N/S
 Gas check @ 1809' KB - N/S
 Gas check @ 1934' KB - N/S

Perforation Interval:
 4th Sand (1801'-1826')
 12 shots

Fracture:

The well was fractured on
 04/21/93 with a 640 BBL 20#
 gel water frac and 40,000
 LBS. of 20/40 sand.

17059

061-1100

Issued 4/05/93

Expires 4/05/95

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

- 1) Well Operator: ALAMCO, INC. D.D (975) (4) 368
- 2) Operator's Well Number A-1948 3) Elevation: 2045'
- 4) Well type: (a) OIL / or GAS XX /
(b) If Gas: Production XX / Underground Storage /
Deep / Shallow XX /
- 5) Proposed Target Formation(s): 4th Sand 421
- 6) Proposed Total Depth: 2300 feet
- 7) Approximate fresh water strata depths: NONE
- 8) Approximate salt water depths: NONE
- 9) Approximate coal seam depths: NONE
- 10) Does land contain coal seams tributary to active mine? Yes / No XX /
- 11) Proposed Well Work: SEE ATTACHED

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT FILL-UP (Cu. Ft.) |
|--------------|----------------|-------|-------------------|-------------------|-----------------|--|
| | SIZE | GRADE | WEIGHT PER FT. | FOR DRILLING | LEFT IN WELL | |
| Conductor | 11-3/4" | LS | 32# | 40' | <i>GS</i> 40' | NONE |
| Fresh Water | | | | | | |
| Coal | | | | | | |
| Intermediate | 8-5/8" | J-55 | 23# | 720 | <i>GS</i> 720 | As required by 38 CSR 18-11- 38 CSR 18-11- |
| Production | 4-1/2" | J-55 | 10.50# | 2,000 | 2,000 | As required by 38 CSR 38-11- |
| Tubing | | | | | | |
| Liners | | | | | | |

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
TYPE

1) Date: April 2, 1993
2) Operator's well number
Lee (A-1948)
3) API Well No: 47 - 061 - 1100
State - County - Permit

STATE OF WEST VIRGINIA
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 Delmas Ray Lee, Sr.
Address 947 Maple Drive - Box 27
Morgantown, WV 26505
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name None of Declaration
Address _____
- (b) Coal Owner(s) with Declaration
Name Delmas Ray Lee, Sr.
Address 947 Maple Drive - Box 27
Morgantown, WV 26505
- Name _____
Address _____
- 6) Inspector Randal Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304)- 987-3324
- (c) Coal Lessee with Declaration
Name None of Declaration
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

XX Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR 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 8 on the above named parties, by:

- XX Personal Service (Affidavit attached)
- _____ 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: Mandy Bern
Its: Manager, Land
Address 200 West Main Street
Clarksburg, WV 26301
Telephone 304 623-6671

Subscribed and sworn before me this 5th day of April, 1993

Elaine M. Cox

Notary Public

~~My commission expires~~ December 9, 2002

