

LINE TABLE

| LS# | Name | Acreage | LI | Line Description |
|-----|----------------|--------------------|-----|--------------------|
| 1 | Johnson, et al | 1264 | L1 | N83-48W 210.14' |
| 2 | Pounds | 41.00 | L2 | N71-41W 306.31' |
| 3 | Dalton, et ux | 32.00 | L3 | N11-56E 122.33' |
| | | | L4 | S63-59E 88.73' |
| | | | L5 | S67-10E 17.13' |
| | | | L6 | S20-29-20W 495.59' |
| | | | L7 | S33-19-30W 257.71' |
| | | | L8 | S34-00W 610.00' |
| | | | L9 | S35-00E 1074.85' |
| | | | L10 | S40-33W 647.83' |
| | | | L11 | N05-34E 922.07' |
| | | | L12 | N39-26W 907.50' |
| | Total | 1337.00 ac. | | |

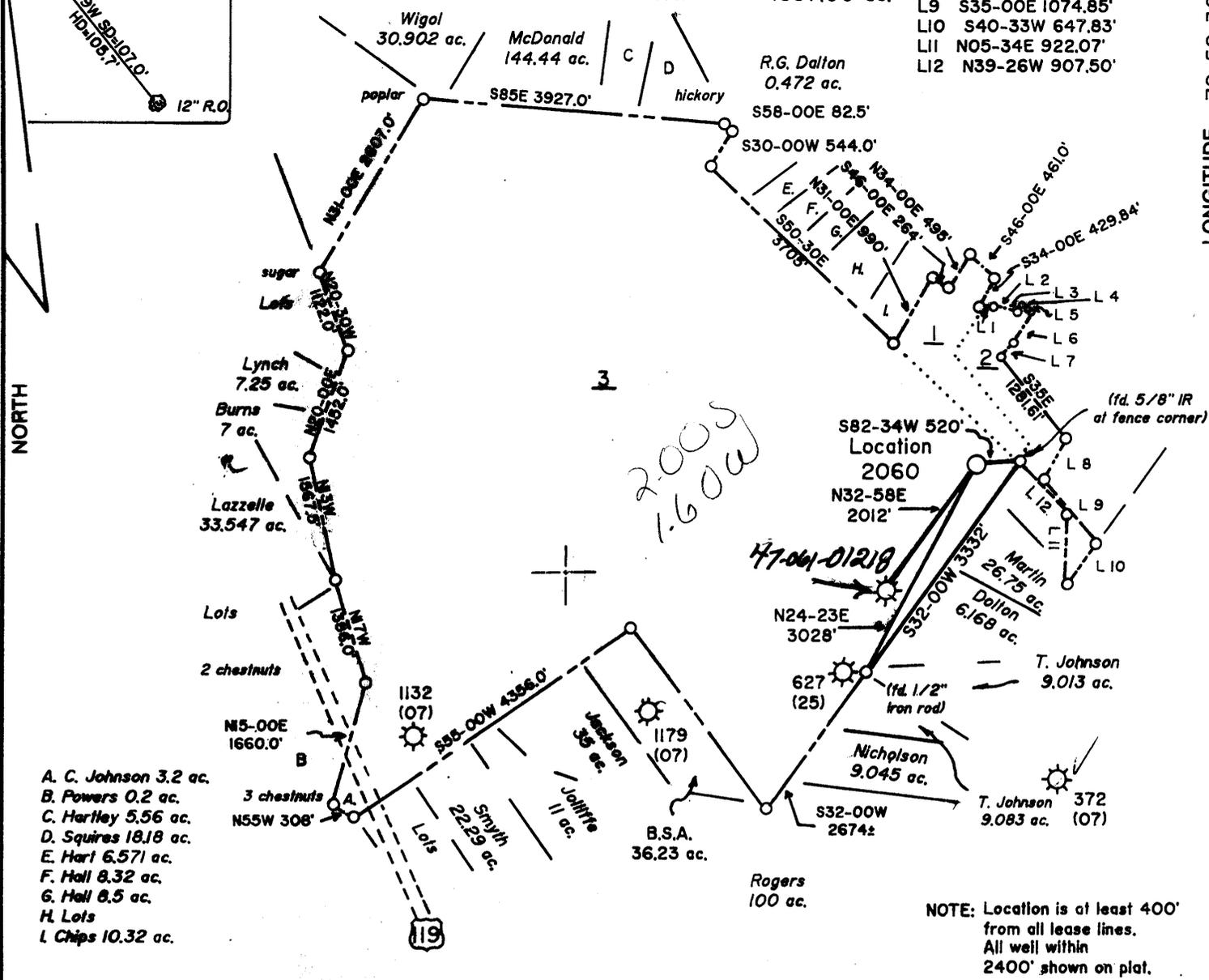
Janice
5/24/96

REFERENCES



NORTH

LONGITUDE 79-52-30W



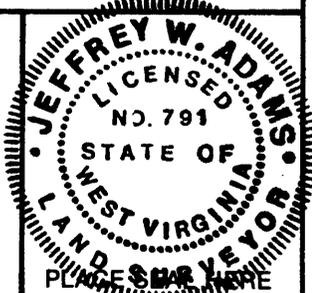
- A. C. Johnson 3.2 ac.
- B. Powers 0.2 ac.
- C. Hertley 5.56 ac.
- D. Squires 18.18 ac.
- E. Hart 6.571 ac.
- F. Hall 8.32 ac.
- G. Hall 8.5 ac.
- H. Lots
- I. Chips 10.32 ac.

NOTE: Location is at least 400' from all lease lines. All well within 2400' shown on plat.

(+) 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. 9,000' Southwest 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 February 20, 19 96
 OPERATOR'S WELL NO. 2060
 API WELL NO. 47-061-01237
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1813 WATERSHED Mountain Run
 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 of 1337
 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) Hunterville Chart 8,200'

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Oriskany ESTIMATED DEPTH 8500 6-6313 MAY 2 1996
 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

DEEP WELL

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

Well Operator's Report of Well Work

Farm name: LUDWIG, ORA LEE J. Operator Well No.: 2060

LOCATION: Elevation: 1,813.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 10550 Feet South of 39 Deg. 35Min. 0 Sec.
Longitude: 8525 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: 05/24/96
Well work Commenced: 06/11/96
Well work Completed: 07/11/96
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 7813
Fresh water depths (ft) 89

Salt water depths (ft) 2080

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

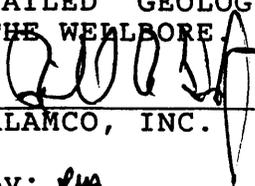
| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16 | 20' | 20' | None |
| 11-3/4 | 347' | 247' | To surface 150 Sx |
| 8-5/8 | 2053' | 2053' | To surface 585 Sx |
| 4-1/2 | - | 7704' | 180 Sx |

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 7412 - 7558'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 8050 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 3200 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.


Richard R. Hoffman
For: ALAMCO, INC.
By: Rus
Date: August 5, 1996

AUG 9 1996

Formations: 0-TD from Gamma Ray Log

| <u>Top</u> | <u>Bottom</u> | <u>Type</u> | <u>Water, Coal, Gas</u> | |
|------------|---------------|---------------|------------------------------------|-----|
| 0 | 8 | Fill | <u>Water:</u> 1/2" Stream | |
| 8 | 111 | SD | @ 89' | |
| 111 | 140 | SH | 1/2" Stream | |
| 140 | 204 | SD | @ 2080' | |
| 204 | 543 | SD & SH | <u>Coal:</u> None | |
| 543 | 557 | Little Lime | <u>Oil:</u> 1/4" Stream | |
| 557 | 595 | SD & SH | @ 2730' | |
| 595 | 661 | Big Lime | <u>Gas Checks:</u> | |
| 661 | 673 | Keener | 2080' | N/S |
| 673 | 709 | SD & SH | 2538' | N/S |
| 709 | 828 | Big Injun | 3035' | N/S |
| 828 | 906 | SD & SH | 4406' | N/S |
| 906 | 1012 | Weir | 4936' | N/S |
| 1012 | 1131 | SH | 7593' | N/S |
| 1131 | 1158 | Gantz | 7813' | N/S |
| 1158 | 1189 | SH | <u>Treatment and Perforations:</u> | |
| 1189 | 1207 | 50' | Stimulation: 07/11/96 | |
| 1207 | 1493 | SD & SH | Perforations: (7412-7558') | |
| 1493 | 1501 | Gordon | 29 Holes - Huntersville Chert | |
| 1501 | 1745 | SD & SH | Frac: WF-30 | |
| 1745 | 1772 | 4th Sand | 15,000# 80/100 Sand & 60,000# | |
| 1772 | 1801 | SD & SH | 20/40 Sand in 1260 BBL total fluid | |
| 1801 | 1809 | 5th Sand | w/5% HCl throughout. | |
| 1809 | 1847 | SD & SH | | |
| 1847 | 1920 | Bayard | | |
| 1920 | 2100 | SD & SH | | |
| 2100 | 2514 | SH | | |
| 2514 | 2538 | 1st Speechley | | |
| 2538 | 2568 | SH | | |
| 2568 | 2588 | 2nd Speechley | | |
| 2588 | 2662 | SH | | |
| 2662 | 2666 | 1st Balltown | | |
| 2666 | 2726 | SH | | |
| 2726 | 2744 | 2nd Balltown | | |
| 2744 | 7000 | SH | | |
| 7000 | 7102 | Tully | | |
| 7102 | 7294 | SH | | |
| 7294 | 7399 | Marcellus | | |
| 7399 | 7410 | Onondaga | | |
| 7410 | 7601 | Huntersville | | |
| 7601 | 7636 | Oriskany | | |
| 7636 | 7813 | Helderberg | | |
| | 7810 | Log TD | | |
| | 7813 | Drig. TD | | |