

FILE NO. \_\_\_\_\_  
DRAWING NO. 01-172-1  
SCALE 1" = 200'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION GPS

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) \_\_\_\_\_  
R.P.E. \_\_\_\_\_ L.L.S. 851

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
Division of Environmental Protection  
OFFICE OF OIL AND GAS

DATE 4/22, 2011  
OPERATOR'S WELL NO. # 2  
API WELL NO. 47 - 013 - 3340  
STATE 47 COUNTY 013 PERMIT 3340

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

LOCATION: ELEVATION 984 WATER SHED SPRING RUN  
DISTRICT LEE COUNTY CALHOUN  
QUADRANGLE ARNOLDSBURG 7.5

SURFACE OWNER GARRY LAUGHLIN ACREAGE 20.23  
OIL & GAS ROYALTY OWNER CRISS HALL & OTHERS LEASE ACREAGE 87.5  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER  REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION Alexander, Benson, Riley, Balltown & Speechley ESTIMATED DEPTH 5,500'  
WELL OPERATOR M. ROGERS & D. SKULL DESIGNATED AGENT MICHAEL ROGERS  
ADDRESS RT. 1 BOX 35 ADDRESS RT. 1 BOX 35  
ARNOLDSBURG, WV 25234 ARNOLDSBURG, WV 25234

LATITUDE 38°47'30"

LONGITUDE 79°57'30"

LEGEND

- ▲ IRON ROD FOUND
- CALCULATED POINT
- x-x- FENCE

BETTY HAYS  
93/219  
T.M. 28 PAR. 14

G.W. HAYS HEIRS  
57/180  
T.M. 28 PAR. 15

VERA HOSKINS  
160/333  
T.M. 28 PAR. 16

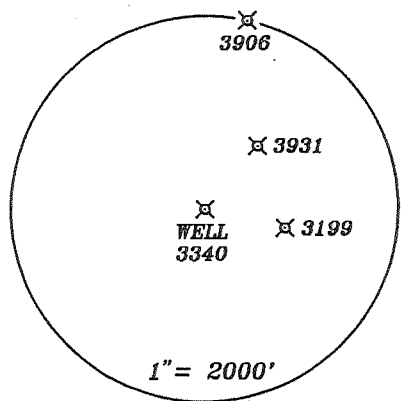
GARRY LAUGHLIN  
157/491  
T.M. 28 PAR. 24.1  
20.23 Acres

LONZO LAUGHLIN  
89/385  
T.M. 28 PAR. 25

GREG LAUGHLIN  
201/99  
T.M. 28 PAR. 24

TOPO LOC.

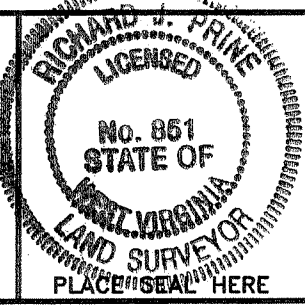
87/325  
T.M. 28 PAR. 27



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

FILE NO. \_\_\_\_\_  
DRAWING NO. 01-172  
SCALE 1" = 200'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION INTER. OF RD. RUN RD. & SPRING RUN RD. ELEV. = 821

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) *Richard J. Prince*  
R.P.E. \_\_\_\_\_ L.L.S. 851



STATE OF WEST VIRGINIA  
Division of Environmental Protection  
OFFICE OF OIL AND GAS

DATE 04-19, 20 01  
OPERATOR'S WELL NO. # 2  
API WELL NO. 47 - 013 - 3340-F  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
LOCATION: ELEVATION 1002' WATER SHED SPRING RUN  
DISTRICT LEE COUNTY CALHOUN

FRAC Cancelled

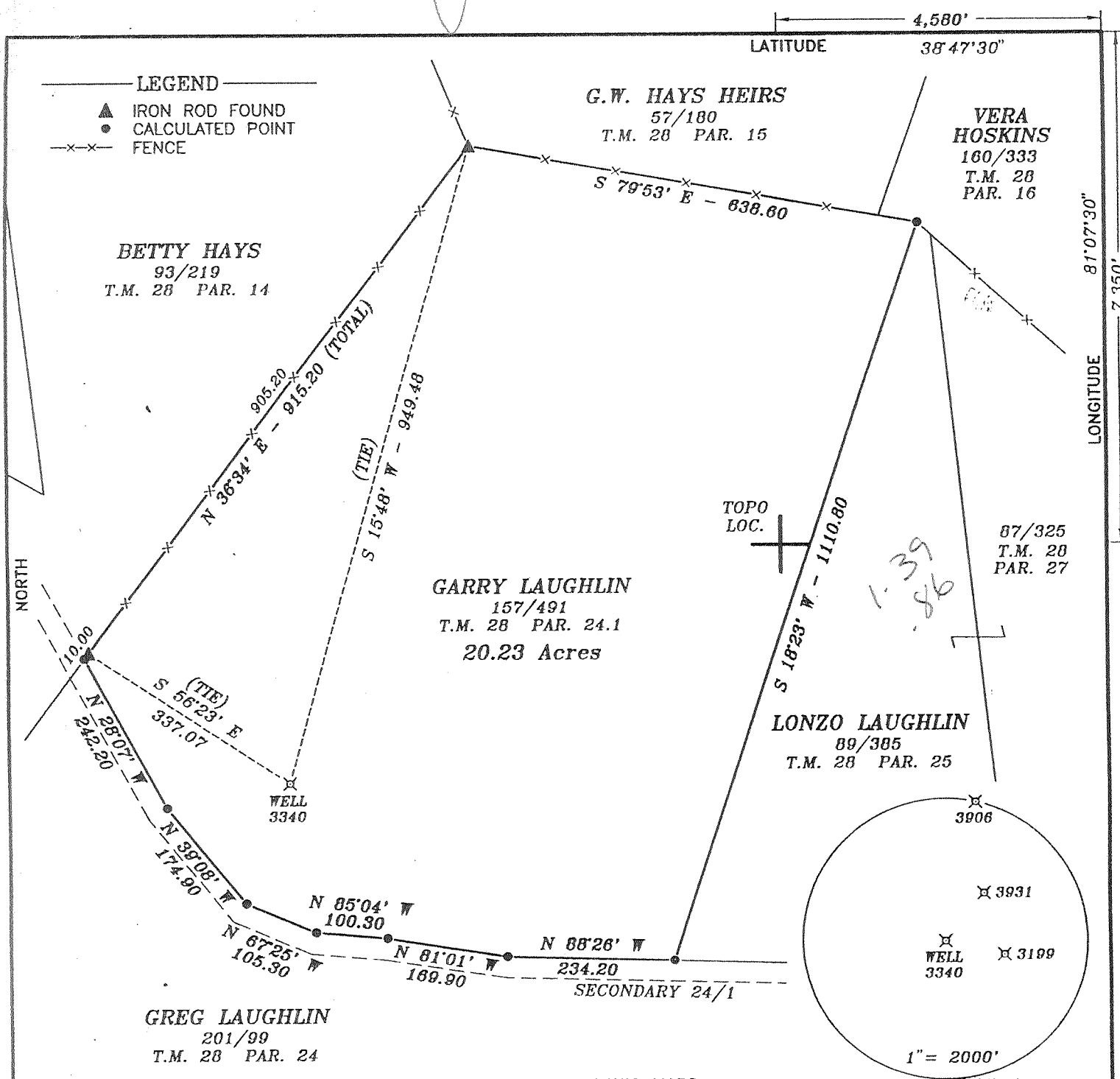
QUADRANGLE ARNOLDSBURG 7.5  
SURFACE OWNER GARRY LAUGHLIN ACREAGE 20.23  
OIL & GAS ROYALTY OWNER CRISS HALL & OTHERS LEASE ACREAGE 87.5  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 3,500'  
WELL OPERATOR M. ROGERS & D. SKULL DESIGNATED AGENT MICHAEL ROGERS  
ADDRESS RT. 1 BOX 35 ARNOLDSBURG, WV 25234 ADDRESS RT. 1 BOX 35 ARNOLDSBURG, WV 25234

MAY 19 2006

CAL 3340 CANC.



**LEGEND**

- ▲ IRON ROD FOUND
- CALCULATED POINT
- x-x- FENCE

**BETTY HAYS**  
93/219  
T.M. 28 PAR. 14

**G.W. HAYS HEIRS**  
57/180  
T.M. 28 PAR. 15

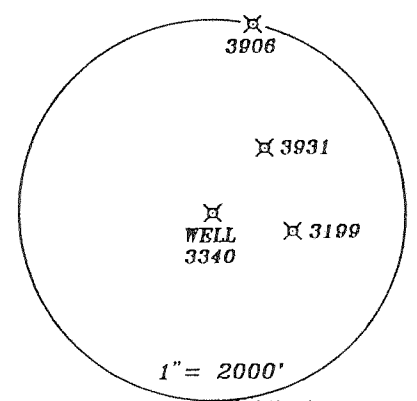
**VERA HOSKINS**  
160/333  
T.M. 28  
PAR. 16

**GARRY LAUGHLIN**  
157/491  
T.M. 28 PAR. 24.1  
20.23 Acres

**LONZO LAUGHLIN**  
89/385  
T.M. 28 PAR. 25

**GREG LAUGHLIN**  
201/99  
T.M. 28 PAR. 24

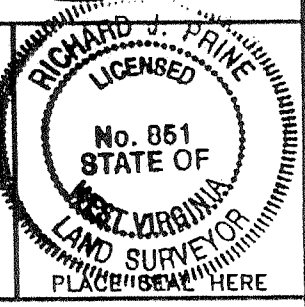
87/325  
T.M. 28  
PAR. 27



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 01-172  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION INTER. OF RD. RUN RD. & SPRING RUN RD. ELEV. = 821

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) [Signature]  
 R.P.E. \_\_\_\_\_ U.S. 851



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE 04-19, 20 01  
 OPERATOR'S WELL NO. # 2  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1002' WATER SHED SPRING RUN  
 DISTRICT LEE COUNTY CALHOUN  
 QUADRANGLE ARNOLDSBURG 7.5

SURFACE OWNER GARRY LAUGHLIN ACREAGE 20.23  
 OIL & GAS ROYALTY OWNER CRISS HALL & OTHERS LEASE ACREAGE 87.5  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 3,500'  
 WELL OPERATOR M. ROGERS & D. SKULL DESIGNATED AGENT MICHAEL ROGERS  
 ADDRESS RT. 1 BOX 35 ADDRESS RT. 1 BOX 35  
ARNOLDSBURG, WV 25234 ARNOLDSBURG, WV 25234

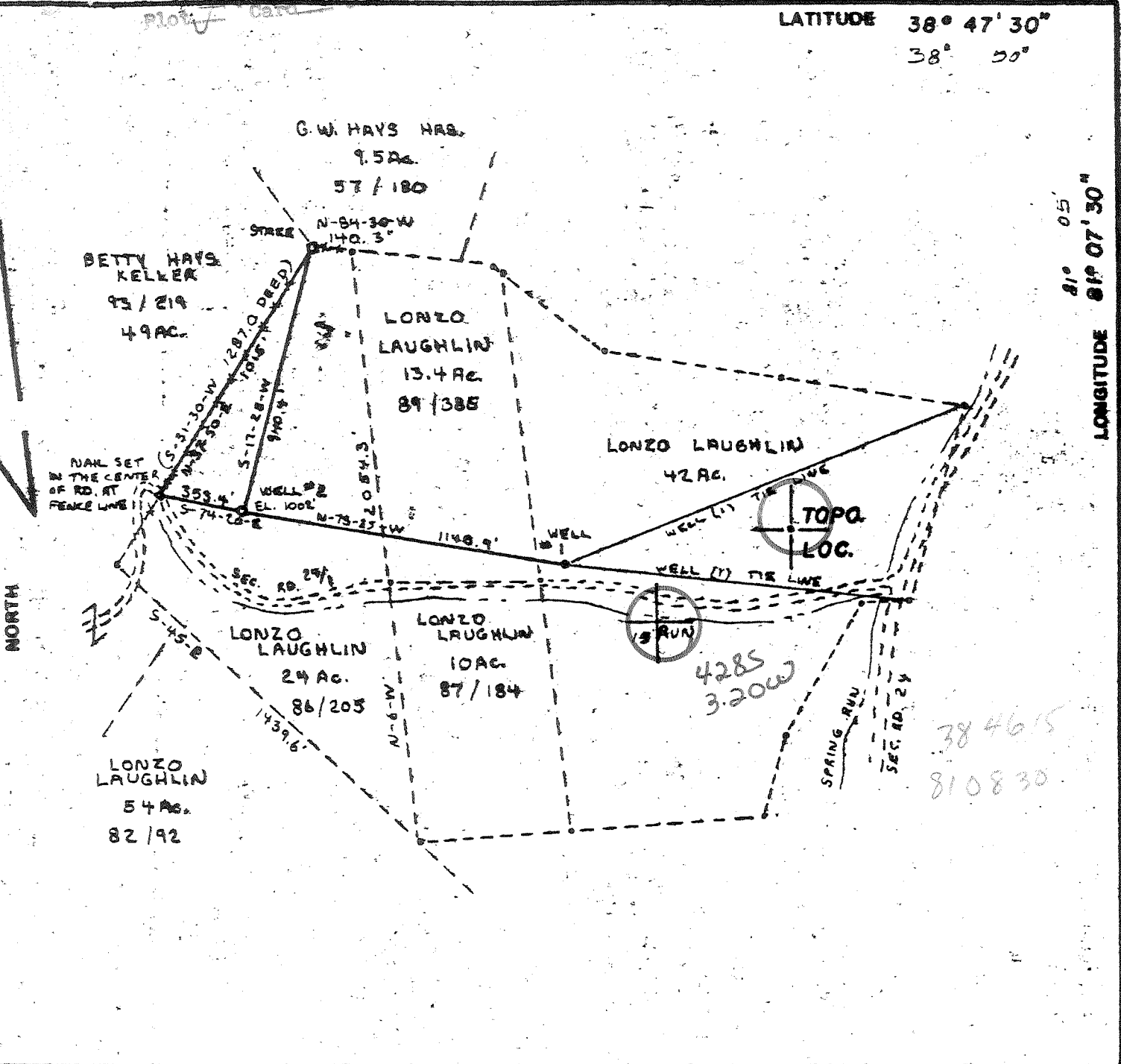
APR 20 2001

CAL 3340 F

LATITUDE 38° 47' 30"  
38° 50'

4580'

LONGITUDE 81° 07' 30"  
81° 05'  
7360'



FILE NO. \_\_\_\_\_  
 DRAWING NO. 81-65  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION INTERSECTION OF ROAD RUN RD. AND SPRING RUN RD. ELEV. 821

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 MINES.  
 (SIGNED) Thelma J. Board  
 R.P.E. \_\_\_\_\_ L.L.S. 526

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-B (8-78)



DATE APRIL 15 1981  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. 47-013-3340  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1002 WATER SHED SPRING RUN  
 DISTRICT LEE COUNTY CALHOUN  
 QUADRANGLE ARNOLDSBURG 75 915 SW  
 SURFACE OWNER LONZO LAUGHLIN ACREAGE 24 AC.  
 OIL & GAS ROYALTY OWNER CRISS HALL AND OTHERS LEASE ACREAGE 87.5  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 3500  
 WELL OPERATOR MICHAEL ROGERS DESIGNATED AGENT SAME  
 ADDRESS RT. 1 BOX 35 ADDRESS \_\_\_\_\_  
ARNOLDSBURG WV 25234



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Quadrangle Arnoldsburg 7.5  
Permit No. 47-013-3340

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company M. Rogers & D. Scull  
Address Rt. 1, Box 35, Arnoldsburg, WV  
Farm Lonzo Laughlin Acres 87.5  
Location (waters) Spring Run  
Well No. Two Elev. 1002'  
District Lee County Calhoun  
The surface of tract is owned in fee by Lonzo Laughlin  
Address Arnoldsburg, WV 25234  
Mineral rights are owned by Criss Hall and Others Address Arnoldsburg, WV  
Drilling Commenced September 25, 1981  
Drilling Completed October 1, 1981  
Initial open flow None cu. ft. \_\_\_\_\_ bbls.  
Final production 3,000 cu. ft. per day None bbls.  
Well open 24 hrs. before test 290 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	254'	254'	30 sacks to surface
7			
5 1/2			
4 1/2	2631'	2631'	138 sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured well Oct. 12, 1981 with 478 bbl. water

45,000 lbs. sand

1,000 gal. acid

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 65 Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_  
Producing Sand Berea Sand Depth 2512' - 2572'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Slate			1800'	1870		
Maxon			1870	1920		
Slate			1920	1952		
Blue Monday			1952	1980		
Big Line			1980	2130		
Slate and shale			2130	2512		
Berea Sand			2512	2572	Gas Show	
Slate <u>DEV Sh.</u>			2572	2690		

**RECEIVED**

DEC 24 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

JAN 21 1982

(over)

\* Indicates Electric Log tops in the remarks section.





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

SEP 10 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE September 10, 1981

Surface Owner James Laughlin

Company M. Rogers & S. Still

Address Amalgam, WV

Address Route 1, Box 35, Amalgam, WV 25231

Mineral Owner James Hall et al

Farm James Laughlin Acres 87.3

Address Amalgam, WV

Location (waters) Amalgam Run

Coal Owner W. Coal

Well No. 1-2 (No) Elevation 2002'

Address \_\_\_\_\_

District 100 County Calhoun

Coal Operator \_\_\_\_\_

Quadrangle Amalgam 7.3

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by May 11, 1982

INSPECTOR  
TO BE NOTIFIED Richard J. Morris

ADDRESS Grantsville, WV

PHONE 354-7259

J. Schuyler  
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated February 11, 1960 by James Hall and others made to M. Rogers & S. Still and recorded on the 24 day of September 1960, in Calhoun County, Book 74 Page 137

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours, M. ROGERS & S. STILL  
(Sign Name) Michael Rogers  
Well Operator  
Route 1, Box 35  
Street  
Amalgam  
City or Town  
West Virginia 25231  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-013-3340 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

BOND DRILL

Schuyler

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME Michael Ingram  
 ADDRESS Clawville, WV ADDRESS 24. 1, Box 71, Marlinton, WV  
 TELEPHONE 486-5701 TELEPHONE 486-5775 or 486-5777 112  
 ESTIMATED DEPTH OF COMPLETED WELL: 2300' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. X STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<u>230'</u>	<u>230'</u>	<u>no surface</u>
7			
5 1/2			
4 1/2	<u>230'</u>	<u>230'</u>	<u>230 Sks or more salt sand</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER 2300 FEET  
 APPROXIMATE COAL DEPTHS 2000  
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title