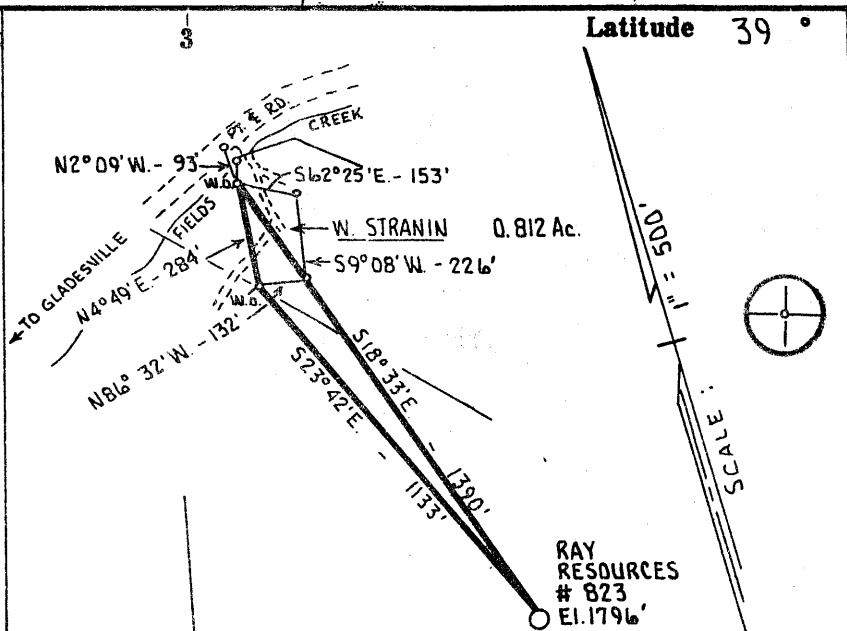
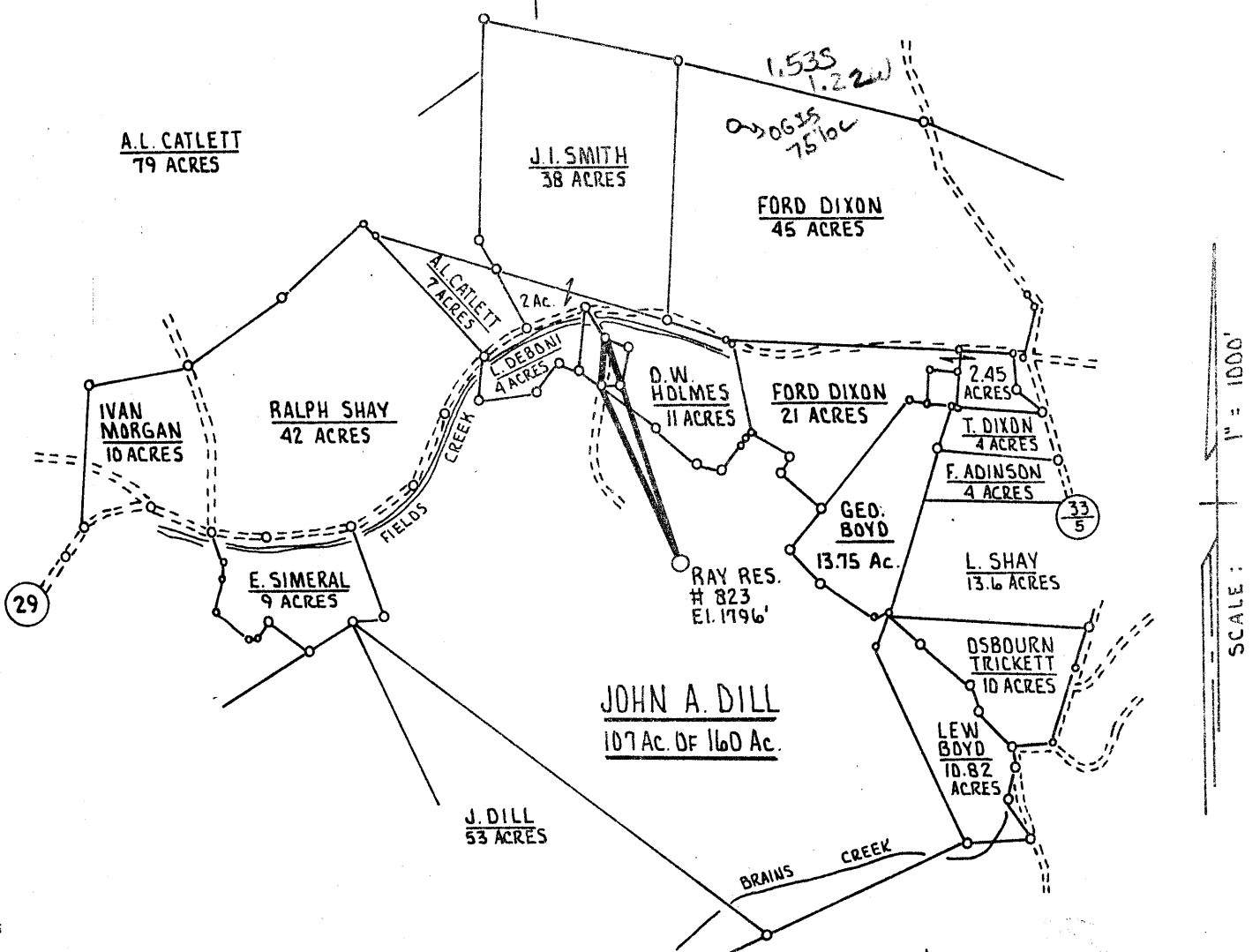


11/21/78

UNIT	ACRES
JOHN A. DILL	107
IVAN MORGAN	10
RALPH SHAY	42
1 A.L. CATLETT	7
J.I. SMITH	2
FORD DIXON	21
GEO. BOYD	13.75
OSBOURN TRICKETT	10
2 LEW BOYD	10.82
EVELYN SIMERAL	9
L. DEBONI	4
T. DIXON	4
D.W. HOLMES	11
3 TOTAL ACREAGE	251.57



Latitude 39° 30'  
Longitude 79° 50'



- Fracture.....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Source of Elevation U.E. CONFLUENCE OF FIELDS RUN & BOYDS RUN - ELEV. - 1712'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

Company RAY RESOURCES, DIV OF FLYDIA OIL CORP  
 Address 630 COMMERCE SQUARE CHARLESTON WEST VIRGINIA 25301  
 Farm JOHN A. DILL, CARL DELSIGNORE  
 Tract \_\_\_\_\_ Acres 107 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. 823  
 Elevation (Spirit Level) 1796' NC  
 Quadrangle THORTON, 15'  
 County PRESTON District LYONS  
 Engineer Daniel L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. DR-24 Drawing No. \_\_\_\_\_  
 Date NOV 1ST 1978 Scale AS SHOWN

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. PRES-196

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

**47-077 DEC 7 1978**

Deep well to b. South Burns Chapel (3/3)

MAR - 5 1979

Date: Jan 23, 1979

Operator's Well No. 823

API Well No. 37 - 077 - 196  
State County Federal

OIL & GAS DIVISION  
DEPT. OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas", Production \_\_\_ / Underground storage \_\_\_ / Deep X / Shallow \_\_\_ /)

LOCATION: Elevation: 1811 KB Watershed: \_\_\_\_\_  
District: Lyons County: Preston Quadrangle: Thornton 15'

WELL OPERATOR RAY RESOURCES, DIV. FDOC DESIGNATED AGENT SAME  
Address 630 Commerce Square Address \_\_\_\_\_  
Charleston, W. Va. 25301

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON Nov. 22, 19 78

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Bill Blosser

Address Colfax, W. Va.

GEOLOGICAL TARGET FORMATION: Huntersville Chert Depth 7512 feet

Depth of completed well, 7850 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh, 168 feet; salt, \_\_\_\_\_ feet.

Coal seam depths: 113,218 Is coal being mined in the area? NO

Work was commenced 12/3, 19 78, and completed 1/13, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	13-3/8"				X	90'	90'	To Surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	9-5/8"			X		1313'	1313'	To Surface	
Production	4-1/2"	N-80		X		7830.5	270 Sks.		Secks set
Tubing	2-3/8"			X		7513			
Liners									Perforations:
									Gas Secks
									<u>7520</u> <u>764</u>
									<u>47</u> Holes

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth 7512

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d

Final open flow, 3499 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests, \_\_\_\_\_ hours

Static rock pressure, 3200 psig (surface measurement) after \_\_\_\_\_ hours shut in

[If applicable due to multiple completion--]

Second producing formation None Pay zone depth \_\_\_\_\_

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 measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

[03-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured with 60,000# 80/100 Sand and 60,000# 20/40 Sand.  
 Total fluid - 1189 BBLs.  
 3% HCl thru job  
 55 gal F-78  
 1600# J-160  
 40# System

Breakdown at 2000#

Perforations: 7520-7640, 47 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
and & Shale			0	3200	
hale			3200	7100	
ully Lime			7100	7190	
Shale			7190	7404	
Marc. Shale			7404	7496	
Onondaga Lime			7496	7512	
Huntersville Chert			7512	7690	
Oriskany			7690	7726	
Helderberg Lime			7726	7850	

(Attach separate sheets to complete as necessary)

RAY RESOURCES, DIV. OF F.D.O.C.  
 Well Operator  
 By J. Ray Carbett  
 Its Geologist

NOTE: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

NOV 21 1978

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

*FR*

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

DATE November 8, 1978  
 RAY RESOURCES, DIVISION OF  
 Company FLYING DIAMOND OIL CORPORATION  
 Address 630 Commerce Sq., Charleston, WV  
 Surface Owner Carl Delsignore  
 Address Buffalo Coal Co., Bayard, WV 26707  
 Mineral Owner Carl Delsignore  
 Address Buffalo Coal Co., Bayard, WV 26707  
 Coal Owner Carl Delsignore  
 Address Buffalo Coal Co., Bayard, WV 26707  
 Coal Operator None  
 Address \_\_\_\_\_

DATE November 8, 1978  
 RAY RESOURCES, DIVISION OF  
 Company FLYING DIAMOND OIL CORPORATION  
 Address 630 Commerce Sq., Charleston, WV  
 Farm John A. Dill Acres 107  
 Location (waters) Fields Creek  
 Well No. 823 (OR-24) Elevation 1796'  
 District Lyons County Preston  
 Quadrangle Thornton

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 3-22-79

INSPECTOR  
 TO BE NOTIFIED William Blosser  
 ADDRESS Box 1028, Colfax, W. Va. 26566  
 PHONE 363-9105

*Robert T. ...*  
 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~~ <sup>Assignment</sup> dated June 1, 1978 by Consolidated Gas made to Ray Resources, Div. FDOC and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

XX 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:

Very truly yours,  
 (Sign Name) Tom Rogsdale  
 Well Operator

RAY RESOURCES, DIVISION OF  
FLYING DIAMOND OIL CORPORATION

W. VA. COAL AND CONSERVATION COMMISSION  
115 WALL STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311

Address of Well Operator

630 Commerce Square  
 Street  
Charleston,  
 City or Town  
West Virginia 25301  
 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.

BLANKET BOND

"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 Tom Rogsdale

Pres- 196 PERMIT NUMBER  
47-077

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

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Ray Resources, Div. of F.D.O.C. NAME William Stover  
 ADDRESS 630 Commerce Sq., Charleston, WV ADDRESS Culloden, W. Va.  
 TELEPHONE 344-8393 TELEPHONE 727-8480  
 ESTIMATED DEPTH OF COMPLETED WELL: 7848' ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XX COMB. \_\_\_\_\_ 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	90'	90'	100 Sks.
9 - 5/8	1310'	1310'	400 Sks.
8 - 5/8			
7			
5 1/2			
4 1/2		7848'	300 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 24 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_

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