

LATITUDE

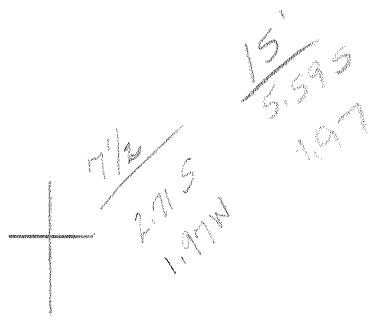
39 09 30

39 10

0125

8780

LONGITUDE



7'5 OGIS topo location

7.5' loc _____ 15' loc _____
 (calc.) _____

Company Ray Resources Div. Flying Diamond Oil (0743)

Farm William Hunter (813)

Quad Elizabeth 7 1/2' (335) Elizabeth 15' (038) SW (7) WC

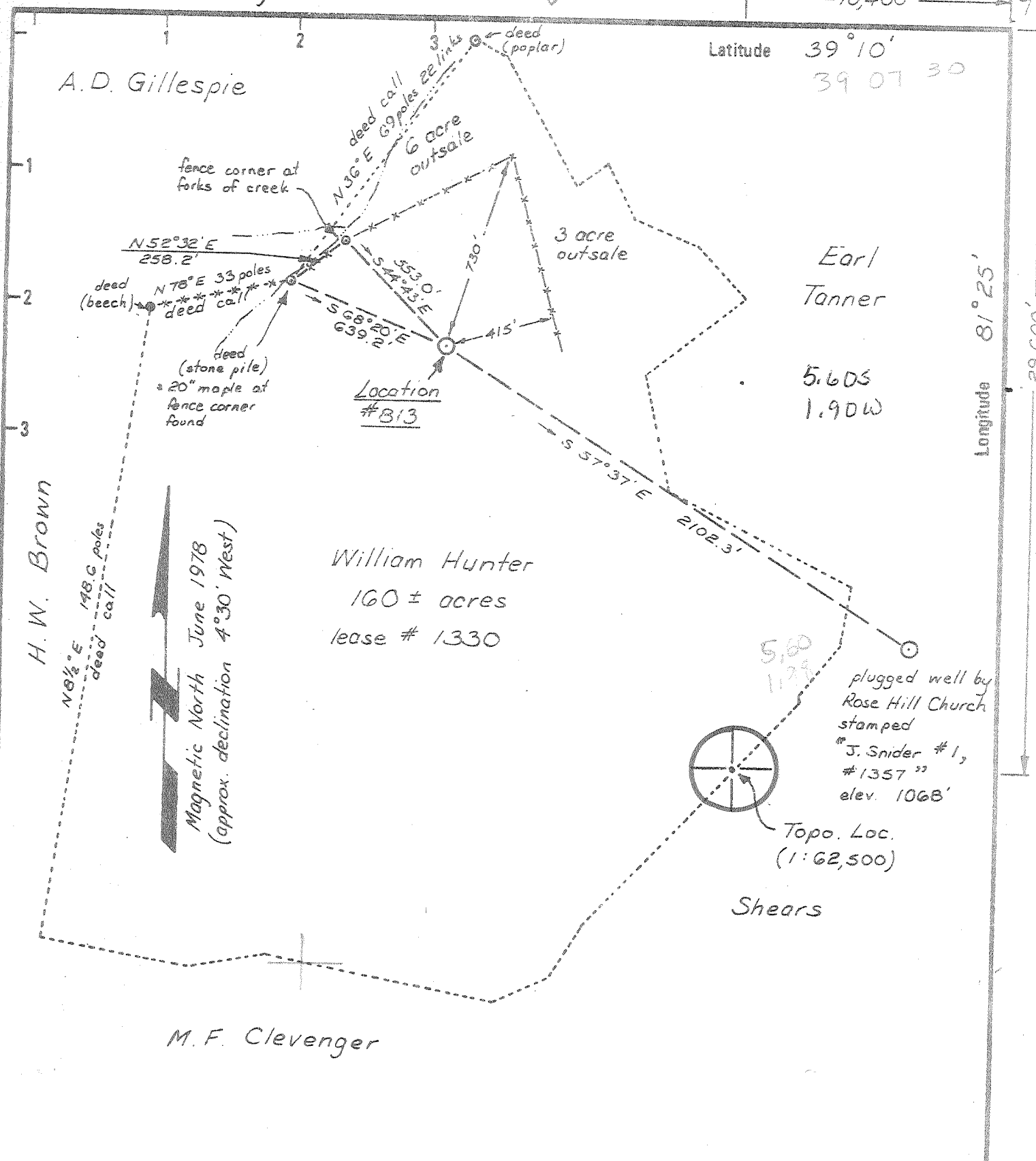
County WIRT

District Tucker (7)

WELL LOCATION MAP

File No. 105-752

DEEP WELL



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 in 2000
 Source of Elevation plugged well by Rose Hill Church
 elevation = 1068'
 "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."

Company Roy Resources Inc. div. F.D.O.C.
 Address 630 Commerce Sq. Charleston W.V.
 Farm William Hunter, CECIL & KENNETH THOMPSON
 Tract _____ Acres 160 ± Lease No. 1330
 Well (Farm) No. _____ Serial No. 813
 Elevation (Spirit Level) 855'
 Quadrangle Elizabeth 7 1/2', 15' WC
 County Wirt District Tucker
 Surveyor Earl Holler
 Surveyor's Registration No. W.V. L.L.S. 219
 File No. 78-89 Drawing No. 1
 Date 5 June 1978 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. WIR - 752

+ 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.

47-105 JUN 15 1978

DEEP WELL 700' in 5-5 (0) extends 300' and water



RECEIVED

SEP 19 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Elizabeth

Permit No. Wirt-752

Rotary XX Oil _____
Cable _____ Gas XX _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

RAY RESOURCES, DIVISION OF

Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Charleston, WV
Farm William Hunter Acres 160±
Location (waters) Road Run
Well No. 813 Elev. 870'
District Tucker County Wirt
The surface of tract is owned in fee by _____
Cecil & Kenneth Thompson
Address Elizabeth, W. Va.
Mineral rights are owned by Cabot Corporation
Address Charleston, W. Va.
Drilling Commenced 6/15/78
Drilling Completed 6/23/78
Initial open flow _____ cu. ft. _____ bbls.
Final production 1205 Mcf cu. ft. per day _____ bbls.
Well open _____ hrs. before test 1865 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13 1/2" 3/8	31'	31'	20 Sks. To Surf.
9 5/8			
8 5/8	2164'	2164'	150 Sks.
7			
5 1/2			
4 1/2	5626'	5626'	250 Sks.
3			
2-3/8	5516'	5516'	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Oriskany frac'd with 1247 bbls. of water, 70,000# Sand, 500 gal. mud acid.
Average treating pressure: 5200#
Injection rate: 23.2 BPM
ISIP: 4700#; after 15 min.: 3800#

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Depth 5490' - 5550'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	1050		
Salt Sand			1050	1350		
Sand & Shale			1350	1730		
Maxton			1730	1875		
Sandy Shale			1875	1940		
Big Lime			1940	1990		
Big Injun			1990	2020		
Shale			2020	2460		
Coffee Shale			2460	2475		
Shale			2475	5050		
Marcellous Shale			5050	5335		
Onondaga Lime			5335	5490		
Oriskany Sand			5490	5550		
Helderburg Lime			5550	5675		
					<u>TOTAL DEPTH</u>	

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUN - 7 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Cecil & Kenneth Thompson
Address Elizabeth, W. Va.
Mineral Owner Cabot Corporation
Address Charleston, W. Va.
Coal Owner None
Address _____
Coal Operator None
Address _____

DATE June 6, 1978
Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Charleston, WV
Farm William Hunter Acres 160±
Location (waters) Road Run
Well No. 813 Elevation 855'
District Tucker County Wirt
Quadrangle Elizabeth

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 10-8-78.

Robert T. Bell

Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED K. Paul Goodnight
ADDRESS Smithville, W. Va.
PHONE 477-3660

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 ^{Assignment} ~~lease~~ dated Sept. 2 19 75 by Seneca Oil 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:

W. VA. OIL & GAS CONSERVATION COMMISSION
613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Very truly yours,
(Sign Name) Ray Cecil Ray
Well Operator

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

Wirt-752
47-105 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 Ray Cecil Ray

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 Smokey Stover
 ADDRESS 630 Commerce Sq., Charleston, WV ADDRESS Culloden, W. Va.
 TELEPHONE 344-8393 TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 5700' 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	60'	60'	To Surf.
9 - 5/8			
8 - 5/8	2100'	2100'	To Surf.
7			
5 1/2			
4 1/2	5700'	5700'	175 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET

APPROXIMATE COAL DEPTHS None

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

Sweeney