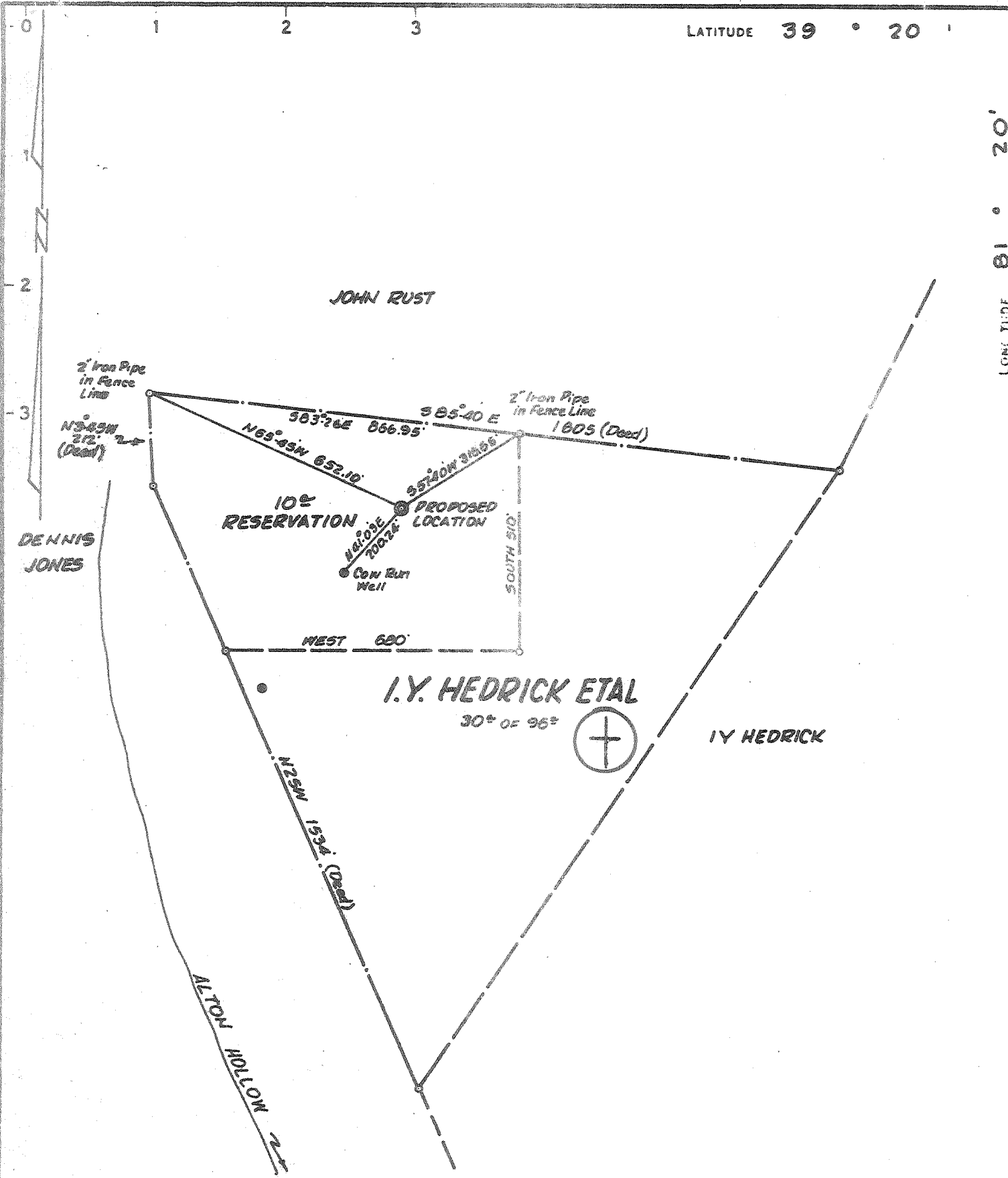


LATITUDE 39 ° 20 '

LONGITUDE 81 ° 20 '



CERTIFICATE

"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 degree of accuracy is one part in 200

Signed Frank H. Barber LLS# 289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT 6/17/76

COMPANY RAY RESOURCES DIV. OF FLYING DIAMOND OIL CORP.
 ADDRESS 630 COMMERCE SQUARE CHARLESTON, W.VA.
 FARM I.Y. HEDRICK
 MAP _____ ACRES 10 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. 570
 ELEVATION (SPIRIT LEVEL) 886.49
 QUADRANGLE MAZIETTA SC
 COUNTY WOOD DISTRICT UNION
 POINT OF PROVEN ELEVATION Rd. Intersection North Fork Stillwell Cr.
With Old Rt. 90 EL. 692
 FILE NO. _____ DRAWING NO. _____
 DATE DEC 11, 1975 SCALE 1"=300FT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. WOO-723-P

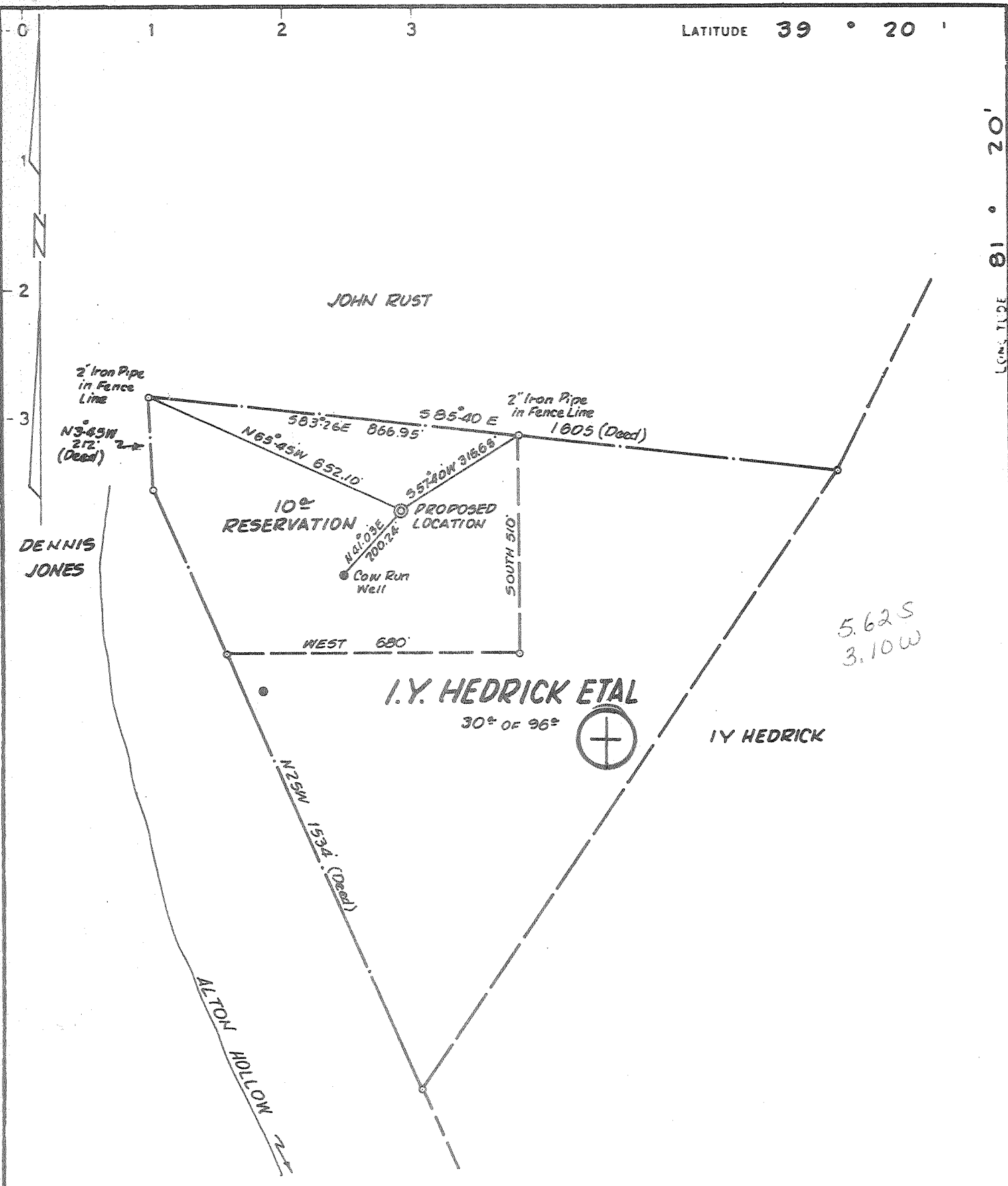
JUN 30 1976

✦ 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.

2500' (3000')

47-107



CERTIFICATE

"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 degree of accuracy is one part in 200

Signed Frank H. Barker LLS#289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY RAY RESOURCES DIV OF FLYING DIAMOND OIL CORP.
 ADDRESS 630 COMMERCE SQUARE CHARLESTON, W.VA.
 FARM I. Y. HEDRICK
 MAP _____ ACRES 10 LEASE NO _____
 WELL (FARM) NO. 1 SERIAL NO. 570
 ELEVATION (SPIRIT LEVEL) 886.49
 QUADRANGLE MARIETTA SC
 COUNTY WOOD DISTRICT UNION
 POINT OF PROVEN ELEVATION Rd. Intersection North Fork Stillwell Cr.
With Old Rt. 50 EL. 692
 FILE NO. _____ DRAWING NO. _____
 DATE DEC 11, 1975 SCALE 1"=300FT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. W00-723

+ 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

DEC 29 1975

7-66 (11) 6-6 Hendershot Ogden (72) 47-107



RECEIVED
APR 30 1976

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

Quadrangle Marietta

Permit No. WOO-723

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

RAY RESOURCES, DIVISION OF

Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm I. Y. Hedrick Acres 10
Location (waters) _____
Well No. 570 Elev. 886.49'
District Union County Wood
The surface of tract is owned in fee by I. Y. Hedrick
Address Walker, W. Va.
Mineral rights are owned by I. Y. Hedrick
Address Walker, W. Va.
Drilling Commenced 12-17-75
Drilling Completed 1-6-76
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day 2 bbls.
Well open _____ hrs. before test _____ 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	299'	299'	To Surf.
7			
5 1/2			
4 1/2	2374'	2374'	75 Sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated from 2275' - 2279' with 16 holes
Fraced with: 22,000# - 20/40 Sand; 1,000# 10/20 Sand
Breakdown: 1400 psi; Avg. Pressure: 2413 psi; Avg. bpm 29.2
Immediate shut-in - 1000 psi; After 15 min. - 800 psi. used 546 Bbls.
oil; 5% mud acid - 250 gal.

Coal was encountered at _____ Feet _____ Inches
Fresh water 110' Feet _____ Salt Water 1480' Feet _____
Producing Sand Berea Depth 2274 - 2277'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			315	450		
Red Rock			450	471		
Slate			471	493		
Sand			493	510		
Red Rock			510	524		
Sand			524	552		
Slate			552	564		
Sand			564	594		
Shale			594	620		
Sand			620	625		
Shale			625	634		
Sand			634	653		
Red Rock			653	657		
Shale			657	687		
Sand			687	698		
Shale			698	780		
Red Rock			780	794		
Shale			794	879		
Sand			879	892		
Shale			892	903		
Sand			903	921		
Shale			921	925		
Sand			925	940		
Shale			940	962		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Red Rock			962	978		
Shale			978	997		
Sandy Shale			997	1035		
Sand			1035	1101		
Shale			1101	1114		
Sand			1114	1135		
Shale			1135	1257		
Sand			1257	1265		
Slate & Sand			1265	1360		
Sand			1360	1420		
Slate			1420	1425		
Sand			1425	1662	Gas & Oil @ 1467'	
Shale			1662	1676		
Sand			1676	1807		
Slate			1807	1820		
Lime & Sand			1820	1926		
Slate			1926	1974		
Sand			1974	2042		
Slate			2042	2276		
<u>Berea</u>			2276	2286		
			2286		T.D.	

Date April 27, 19 76

APPROVED RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION owner

By Tom Rogsdale
GEOLOGIST (Title)



RECEIVED

DEC 16 1975

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 12, 1975

Surface Owner I. Y. Hedrick
Address Walker, W. Va.
Mineral Owner I. Y. Hedrick
Address Walker, W. Va.
Coal Owner _____
Address _____
Coal Operator _____
Address _____

Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Square, Chas., W. Va.
Farm I. Y. Hedrick Acres 10
Location (waters) _____
Well No. 570 Elevation 886.49'
District Union County Wood
Quadrangle Marietta

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 4-16-76.

John S. Bell

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Donald Connors

PH: 428-8172 ADDRESS Mineral Wells, W. Va.

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} ~~grant or lease~~ dated _____ 19____ by H. D. Wells Oil & Gas Explor. & Develop., Inc. to Ray Resources made to _____ 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:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

Very truly yours,

(Sign Name) Thomas H. Boydale

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

W00-723

PERMIT NUMBER

47-107

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 Haught Drilling Company NAME Bill Endicott
 ADDRESS Smithville, W. Va. ADDRESS Box 234 Culloden, W. Va.
 TELEPHONE _____ TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL XXX GAS _____ 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	30'	30'	To Surf
9 - 5/8			
8 - 5/8	300'	300'	To Surf
7			
5 1/2			
4 1/2	2500'	2500'	75 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 70 FEET SALT WATER 1700 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