





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

MAILED  
JAN 14 1980

OIL & GAS DIVISION  
DEPT. OF MINES  
Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Big Isaac 7 1/2

Permit No. 47-017-2358

Company Doran & Associates, Inc.  
Address 728 Washington Road, Pgh., PA 15228  
Farm Okey Clark Acres 100  
Location (waters) Greenbrier Creek  
Well No. 2 K-L-233 Elev. 962  
District Greenbrier County Doddridge  
The surface of tract is owned in fee by Okey & Clara B. Clark  
Address Rt. 1, Salem, WV 26426  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced 9/10/79  
Drilling Completed 9/17/79  
Initial open flow 230 M.cu. ft. \_\_\_\_\_ bbls.  
Final production 4112 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 4 hrs. before test 500# 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	1481'	1481'	250 Sks.
7			
5 1/2			
4 1/2	5494'	5494'	130 Sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From:	To:	Amt Fluid:	Amt Sand:
9/27/79		2786	2797	402 BBLs.	45,000#
9/27/79		2078	2138	674 BBLs.	70,000#

Coal was encountered at 103', 382', 690, 940 Feet \_\_\_\_\_ Inches  
Fresh water 30' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun, 5th Sand Depth 2060, 2750

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Substructure			0	15		
Sandy Shale			15	60		F. W. @ 30'
Sand			60	90		
Sandy Shale			90	103		
Coal			103	105		
Sandy Shale			105	150		
Sand			150	382		
Coal			382	385		
Sand			385	445		
Sandy Shale			445	470		
Sand			470	515		
Sandy Shale			515	690		
Coal			690	696		
Sandy Shale			696	850		
Red Rock & Shale			850	940		
Coal			940	942		
Shale & Red Rock			942	1377		
Shale			1377	1380		
Sand			1380	1405		
Sandy Shale			1405	1690		
Sand			1690	1790		
Sand Shale			1790	1905		
Sand			1905	1915		

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Sandy Shale			1915	1980		
Little Lime			-1980	1990		
Shale			1990	2020		
Big Lime			-2020	2060		
Sand			2060	2130		
Sandy Shale			2130	2275		Show @ 2090'
Sand			2275	2435		
Sandy Shale			2435	2660		
Sand			2660	2770		
Sandy Shale			2770	3790		
Sand			3790	3980		Show @ 3975'
Sandy Shale			3980	4960		Show @ 4160' & 4842'
Sand			4960	4980		
Sandy Shale			4980	5280		Show @ 5210'
Sand	ALEX.		5280	5350		
Sandy Shale			5350	5540		
Driller's T. D.				5540		
Big Injun			2060	2152		
4th Sand			2676	2690		
5th Sand			2750	2800		
Balltown			3912	3980		
Bradford			4388	4430		
Riley			4808	4830		
Henson			-4968	5000		
Alexander			5240	5330		
Logger's T. D.				5552		

Date Jan 4 1980  
 APPROVED Donald R. Laughlin Owner  
 By Vice-President Operations

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Rev. - 72

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 11-15-79 STATE OF WEST VIRGINIA



RECEIVED

FEB 28 1979

DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Deputy Director - Oil & Gas Division

Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION

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

DATE February 13, 1979

Surface Owner Okey & Clara B. Clark  
Address Rt. #1, Salem, WV 26426  
Mineral Owner Okey & Clara B. Clark  
Address Rt. #1, Salem, WV 26426  
Coal Owner Willis G. Tetrick, Jr.  
Address Union Bank Bldg., Clarksburg, WV 26301  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Doran & Associates, Inc.  
Address 728 Washington Road  
Farm Okey Clark Acres 100  
Location (waters) Greenbrier Creek  
Well No. 2 Elevation 962  
District Greenbrier County Doddridge  
Quadrangle Big Isaac 7 1/2

### ADDITIONAL SURFACE AND MINERAL OWNER

Ruby V. Sadler  
201 Easan Avenue  
Highland Park, MI 48203

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS Clarksburg, WV 26301  
PHONE 304-622-3871

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 October 25, 1978 by Okey & Clara Clark, et al made to Doran & Associates, Inc. and recorded on the 20th day of November 1978, in Doddridge County, Book 105 Page 536

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 this 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

728 Washington Road  
Street  
Pittsburgh  
City or Town  
Pennsylvania, 15228  
State

Very truly yours,  
(Sign Name) Donald R. Laughlin  
Well Operator

\*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

47-017-2358 PERMIT NUMBER

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

PROPOSED WORK ORDER TO  X  DRILL   DEEPEN   FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known)   RESPONSIBLE AGENT:    
 NAME  S. W. Jack Drilling Company  NAME  Al Sorcan   
 ADDRESS  P. O. Box 697, Indiana, PA 15701  ADDRESS  Rt. 4, Box 444, Buckhannon, WV 26201   
 TELEPHONE  349-6800  TELEPHONE  034-472-0007   
 ESTIMATED DEPTH OF COMPLETED WELL:  4700'  ROTARY  X  CABLE TOOLS    
 PROPOSED GEOLOGICAL FORMATION:  Benson   
 TYPE OF WELL: OIL   GAS  X  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			
10 - 5/8	30'		
8 - 5/8	1000'	1000'	200 Sk
7			
5 1/2			
4 1/2	4700'	4700'	150' Sk
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  25  FEET  150  SALT WATER  750  FEET  
 APPROXIMATE COAL DEPTHS  340   
 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