





JAN 23 1979

RECEIVED

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

JAN - 4 1979

Oil and Gas Division DEPT. OF MINES  
WELL RECORD

Quadrangle West Union 7 1/2  
Permit No. Doddridge 2293  
47-017

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

Company P-J Resources  
Address 253 Carr Ave., Clarksburg, WV  
Farm McCutchan (Mulligan lease) 60 Acres  
Location (waters) Arnold's Creek  
Well No. Mulligan "A" Elev. 898  
District West Union County Doddridge  
The surface of tract is owned in fee by William Paul McCutchan  
Address 300 Wood St., West Union, WV  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced 10/13/78  
Drilling Completed 10/20/78  
Initial open flow 1,100,000 cu. ft. 5 bbls.  
Final production 800,000 cu. ft. per day - bbls.  
Well open 24 hrs. before test 1700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	32'	32'	None
9 5/8			
8 5/8	1967	1967	490 CFT
7			
5 1/2			
4 1/2	5356	5356	525
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record. See attached

Well was hydrofractured by Dowell well on 11/1/78. Alexander: Fluid: 624 bbls. total; Sand: 40000# 20/40; 25000# 80/100 1st stg. 5221-5255; Warren & Riley treated as one stage with perf. balls; Total fluid: 752 bbls. Sand 17000# 80/100; 35000# 20/40

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 1/2" stream Feet 600' Salt Water No Feet \_\_\_\_\_  
Producing Sand Alexander, Warren, Riley Depth 5210'-5250'; 4512'-4516'; 3476'-3482'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay, sand, shale & red rock			0	1910		
Big Injun			1910	2020		
Big Injun			2020	2104		
Sand & shale			2104	2240		
Weir			2240	2350		
Sand & shale			2350	3476		
Warren			3476	3482	Gas	
Sand & shale			3482	4512		
Riley			4512	4516	Gas	
Sand & shale			4516	5210		
Alexander			5210	5250	Gas	
Sand & shale			5250	5400		

(over)

\* Indicates Electric Log tops in the remarks section.

5400  
1850  
3550 EXPL R7.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
SEP 27 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division  
OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Paul McCutchan  
Address 300 Wood St., West Union, WV  
Mineral Owner McCutchan  
Address 300 Wood St., West Union, WV  
Coal Owner McCutchan  
Address 300 Wood St., West Union, WV  
Coal Operator None  
Address NA

DATE September 20, 1978  
Company P-J Resources, a WV partnership  
Address 253 Carr Ave., Clarksburg, WV  
Farm McCutchan Acres 60  
Location (waters) Arnold's Creek  
Well No. 1 Elevation 898'  
District Central County Doddridge  
Quadrangle West Union 7 1/2

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 1-27-79

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

John T. [Signature]  
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 Sept. 21 1978 by Justin L. Henderson person made to P-J Resources, a partnership and recorded on the \_\_\_\_\_ day of Sept. 1978, in Doddridge County, Book \_\_\_\_\_ Page \_\_\_\_\_ to be recorded

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 see waiver 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,  
P-J Resources  
(Sign Name) Justin L. Henderson  
Well Operator By its partner

253 Carr Ave.  
Street  
Clarksburg,  
City or Town  
WV 26301  
State

~~BLANKET BOND~~ BOND DRILL

\*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.

COAL 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 Justin L. Henderson  
 ADDRESS P. O. Box 754, Indiana, Pa. 15701 ADDRESS 253 Carr Ave., Clarksburg,  
 TELEPHONE (304) 472-2161 WV 26301 TELEPHONE 622-7612; 624-5601  
 ESTIMATED DEPTH OF COMPLETED WELL: 5400' ROTARY X CABLE TOOLS             
 PROPOSED GEOLOGICAL FORMATION: Alexander  
 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	CEMENTED UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	800'	800'	250 sacks
7			
5 1/2			
4 1/2	5400'	5400'	750 sacks
3			
2			
Liners			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 300' FEET SALT WATER None FEET  
 APPROXIMATE COAL DEPTHS 250' not mineable No Coal  
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? NA

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.  
 I the owner of 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.

Paul M. Gutterman  
 For Coal Company Owner

Official Title Coal Owner