



FILE NO. 78-5288
 DRAWING NO. 78-5288
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION BASE ELEV. POINTS 1108 AND 1042 FROM NEAREST ADJ. INTERS. SHOWN ON P.C. TOPO

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Henry M. Parsons
 R.P.E. _____ L.L.S. 98

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE OCT 28, 1980
 OPERATOR'S WELL NO. JOHNSON No. 1
 API WELL NO. 47-TYLER-0879
 STATE _____ COUNTY _____ PERMIT _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1073 1/2 WATER SHED BADGER RUN
 DISTRICT LINCOLN COUNTY TYLER
 QUADRANGLE PADEN CITY
 SURFACE OWNER WILLIAM K. JOHNSON ACREAGE 164 + (20 ACRE DRILLING UNIT)
 OIL & GAS ROYALTY OWNER William K. Johnson LEASE ACREAGE 164 +
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) charge to SISTERVILLE 28
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION OHIO SHALE ESTIMATED DEPTH 4500'
 WELL OPERATOR Eners Petroleum DESIGNATED AGENT C.W. Riggs, Inc. ADDRESS WHEELING, W.V.A. ADDRESS St. Marks, W.V.A.
 JAN 2 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Paden City

Permit No. 47-095-0879

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

Company Jim Emes Petroleum Co.
Address Wheeling, WV
Farm Wm. K. Johnson Acres 164
Location (waters) Badger Run
Well No. 2 Elev. 1073½
District Lincoln County Tyler
The surface of tract is owned in fee by W. K. Johnson

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	1335	1335	
7			
5 1/2			
4 1/2		3019	
3			
2			
Liners Used			

Address Sistersville, WV
Mineral rights are owned by W. K. Johnson
Address Sistersville, WV
Drilling Commenced 3/18/81
Drilling Completed 3/22/81
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Well treatment details:

Attach copy of cementing record.
8 5/8" 230 SK 3/20/81

Casing Cemented 4½ size 3019 No. Ft. 3/22/81 Dat
Amount of cement used (bags) 240
Name of Service Co. Halliburton

Well Fractured (Details) Nitrogen Frac 600,000 C.ft.
Result after treatment 300,000
Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Gorden 2830-2868 14 shots

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	200		
Slate-Sandy			200	1050		
Cow Run			1050	1098		
1st Salt			1242	1290		
2nd Salt			1390	1430		
3rd Salt			1435	1480		
Maxon			1545	1576		
Big Lime			1740	1930		
Keener			1940	2050		
Big Injun			2066	2106		
Squaw			2122	2132		
Weir			2362	2425		
Berea			2514	2540		
Gorden			2826	2874		
T.D.					3019	

(over)

* Indicates Electric Log tops in the remarks section.

JUN 14 1982



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Paden City

Permit No. 47-095-0879

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

Corrected well record

Company Jim Emes Petroleum Co.
Address Wheeling, WV
Farm Wm. K. Johnson Acres 164
Location (waters) Badger Run
Well No. 2 Elev. 1073 1/2
District Lincoln County Tyler
The surface of tract is owned in fee by W. K. Johnson

Address Sistersville, WV
Mineral rights are owned by W. K. Johnson
Address Sistersville, WV
Drilling Commenced 3/18/81
Drilling Completed 3/22/81
Initial open flow _____ cu. ft. _____ bbls.
Final production 300M cu. ft. per day _____ 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	1335	1335	
7			
5 1/2			
4 1/2		3019	
3			
2			
Liners Used			

Attach copy of cementing record.

8 5/8" 230 SK 3/20/81

Casing Cemented 4 1/2 size 3019 No. Ft. 3/22/81 Dat
Amount of cement used (bags) 240
Name of Service Co. Halliburton

Well Fractured (Details) Nitrogen Frac

Result after treatment

Coal was encountered at _____ Feet 300,000 cu ft _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Gorden 2830-2868 14 shots

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Red Rock			0	200		
Slate-Sandy			200	1050		
Cow Run			1050	1098		
1st Salt			1242	1290		
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Squaw			2122	2132		
Weir			2362	2425		
Berea			2514	2540		
Gorden			2826	2874		

T.D. 3019

change to gas well w/ 300 mcr

(over)

Indicates Electric Log tops in the remarks section.

JUL 06 1982



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
NOV 26 1980

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 WILLIAM JOHNSON
Address SISTERSVILLE, W. VA.
Mineral Owner SAME AS SURFACE
Address _____
Coal Owner SAME AS SURFACE
Address _____
Coal Operator NONE
Address _____

DATE 11-18-80
Company Jim EMES PETROLEUM Co., Inc.
Address 619 LACONIA BLDG., WHEELING, W. VA.
Farm JOHNSON Acres 164
Location (waters) BADGER RUN
Well No. 2 Elevation 1073.5'
District LINCOLN County TYLER
Quadrangle PADEN CITY, W. VA.

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 8-1-81.

INSPECTOR
TO BE NOTIFIED Phillip Tracy
ADDRESS MIDDLETOWN, W. VA.
PHONE 758-4573

John B. Bennett
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 Apr 26 1979 by Wm. K. & Janet Johnson made to John Richmond and recorded on the 27 day of Apr. 1979 in TYLER County, Book 220 Page 459
 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, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours,
(Sign Name) James T. Emes Pres
Well Operator
619 LACONIA BLDG.
Street
WHEELING
City or Town
W. VA.
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

**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 LITTLE SWISS DRILLING NAME C.W. Riggs, Inc.
 ADDRESS BUCHANAN, W.VA. ADDRESS ST. MARYS, W.VA.
 TELEPHONE 472-6396 TELEPHONE 684-3974
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: OHIO SHALE
 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	CEMENT FILL UP OR SACKS (CUBIC FT)
20 - 16			
13 - 10			
9 - 5/H			
8 - 5/H <u>250' MIN.</u>	<u>250'</u>	<u>250'</u>	<u>Cement Top to Bottom</u>
7			
5 1/2			
4 1/2 <u>4500'</u>		<u>4500'</u>	<u>200 sks</u>
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 160 FEET SALT WATER N/A FEET
 APPROXIMATE COAL DEPTHS N/A
 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