



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500
 Source of Elevation BASE ELEV. POINTS WERE 1108 AND 1072 FROM NEAREST ROAD INTERSECTIONS SHOWN ON TOPO MAP
 "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. Henry M. Parsons

Company EMES PETROLEUM Co.
 Address 619 LACONIA, WHEELING WV
 Farm WILLIAM K. JOHNSON (20 ACRE DRILLING UNIT)
 Tract _____ Acres 164 + Lease No. _____
 Well (Farm) No. JOHNSON #1 Serial No. _____
 Elevation (Spirit Level) 1058
 Quadrangle PADEN CITY 7 1/2, NEW MARNSVILLE 15 SW
 County TYLER District LINCOLN
 Surveyor HENRY M. PARSONS
 Engineer's Registration No. 98
 File No. 78-5288 Drawing No. _____
 Date Nov. 5, 1979 Scale 1" = 600

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-095-0781

+ 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.

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MAR - 6 1981

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

Date: MARCH 5, 1981

FORM IV-35 (Obverse)

[08-78]

WELL OPERATOR'S REPORT OF

Operator's Well No. W. JOHNSON #1

API Well No. 47-095-2731 State County Penn

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection ___ / Waste Disposal ___ / (If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 1053' Watershed: BADGER RUN District: LINCOLN County: TYLER Quadrangle: Paden City, W.Va.

WELL OPERATOR Great Petroleum Co. Inc. DESIGNATED AGENT P. W. Riggs, Trac. Address 619 LACONIA BLDG. WHEELING, W.VA. Address Box 358 St. Marks, W.Va.

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___ Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) ___

PERMIT ISSUED ON 2-4, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name PHILIP TRACY Address MIDDERBROOK, W.VA.

GEOLOGICAL TARGET FORMATION: FIFTH SAND Depth 3300' feet Depth of completed well, 2989' feet Rotary X / Cable Tools ___ Water strata depth: Fresh, N/A feet; salt, N/A feet. Coal seam depths: N/A Is coal being mined in the area? No Work was commenced 3-17, 1980, and completed 3-22, 1980

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OPEN FLOW DATA

Producing formation Carroll's Gordon Pay zone depth 2841-2896' feet Gas: Initial open flow, 1/16 Mcf/d Oil: Initial open flow, ___ Bbl/d Final open flow, 40 Mcf/d Final open flow, ___ Bbl/d Time of open flow between initial and final tests, ___ hours Static rock pressure, 1300 psig (surface measurement) after 2 1/2 hours shut in

[If applicable due to multiple completion--]

Second producing formation ___ Pay zone depth ___ feet

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

23-50 shots - 2831' - 2835' - 5 shots
 - 2841' - 2847' - 4 shots
 - 2857' - 2868' - 10 shots
 - 2881' - 2884' - 4 shots

FRACTURE

1200 BBL H₂O, 600 SKS 20/40 SAND, 100,000 SCF, N₂

WELL LOG

FORMATION	Color	Hard or Soft	33 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Cow Run			1010'	1058'	Top Formation Logged
1st SALT			1222'	1270'	
2nd SALT			1314'	1370'	
3rd SALT			1385'	1430'	
Maxon			1495'	1520'	
Big Lime			1790'	1880'	
Keowee			1890'	1998'	
Big Injun			2016'	2060'	
SQUAW			2072'	2082'	
WEIR			2312'	2375'	
BEREA			2464'	2482'	Bottom Logged
GORDON			2814'	2896'	

(Attach separate sheets to complete as necessary)

EMCO PETROLEUM CO., INC.
 Well Operator
 By [Signature]
 Its Agent

NOTE: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB - 4 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.

DATE 11-9-79

Surface Owner William Johnson

Company Emes Petroleum Co.

Address Sistersville, W. Va.

Address 619 Laconia Bldg, Wheeling, W. Va.

Mineral Owner William Johnson

Farm Johnson Acres 164

Address Sistersville, W. Va.

Location (waters) Badger Run

Coal Owner William Johnson

Well No. 1 Elevation 1058'

Address Sistersville, W. Va.

District Lincoln County Tyler

Coal Operator None

Quadrangle Paden City, W. Va.

Address _____

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 10-5-80.

INSPECTOR
TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, W. Va.

PHONE 758-4573

Robert T. Ellis
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 April 26 1979 by Janet 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, as 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 _____ 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

Very truly yours,
(Sign Name) James T. Ellis
Well Operator

619 Laconia Building
Well Operator Wheeling
City of West Virginia
W. Va.

*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.

