



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN. 5,000
 Source of Elevation Tied to U.S.G. ELEVATION AT INTERSECTION OF BEE BRANCH ROAD & WVA RTE. NO. 3
 "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."

Company MONITOR PETROLEUM CORP
 Address 486 5th AVE, NEW YORK, N.Y.
 Farm WILLIE HALL
GEORGE E. CLAY, ET AL.
 Tract _____ Acres 212.7 Lease No. 68518
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1790.75'
 Quadrangle ARNETT, ECCLES C
 County RALEIGH District MARSH FORK
 SURVEYOR David E. Jackson
 SURVEYOR'S Registration No. 344
 File No. _____ Drawing No. _____
 Date 4/23/79 Scale 1" = 500'

CO: 081 PMT: 473
 Loc Digitized from OGIS 7.5' Mylar
 QUAD: 218 DATE: 22-MAY-90
 LAT: 37 52.5 Miles South: 2.82
 LONG: 81 22.5 Miles West : 0.52

WELL LOCATION MAP
FILE NO. 47-081-0473

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

MCGRAW 248 MAY 22 1979

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

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

Date Nov. 29

FORM IV-35
(Obverse)

Operator's Well No. #2 G.E. Clay

[08-78,

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 57 - 081

State County

08 - 0473

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

LOCATION: Elevation: 1799 - KB Watershed: Bee Branch of Sand Run
District: Marsh Fork County: Raleigh Quadrangle: Arnett

WELL OPERATOR Monitor Petroleum Corporation DESIGNATED AGENT Eugene Pruitt
Address 369 Lexington Avenue Address P.O. Box 338
New York, New York 10017 Belington, W.Va. 26250

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

PERMIT ISSUED ON April 25, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Leroy Hopkins

Address Ansted
W. Va.

GEOLOGICAL TARGET FORMATION: Weir Sand Depth 2920 feet

Depth of completed well, 3363 feet Rotary / Cable Tools

Water strata depth: Fresh, _____ feet; salt, _____ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced May 8, 19 79, and completed May 17, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PAGE
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	16"			X		30'	30'	to surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	3 5/8"	K40		X		1200'	1200'	200 sx	
Production	4 1/2"	K40	10.5	X		2977'	2977'	260 sx	Depth set
Tubing									
Liners									Perforations:
									Top

OPEN FLOW DATA

Producing formation Ravencliff Sand Pay zone depth 1538

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, * Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 125 psig (surface measurement) after 28 ^{days} ~~xxxxx~~ shut in

[If applicable due to multiple completion--]

Second producing formation Big Lime Pay zone depth 2684

Gas: Initial open flow, 130 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, * Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 190 psig (surface measurement) after 28 ^{days} ~~xxxxx~~ shut in

JUN 15 1981

275 MCF

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

Ravencliff Perfs. 1506' to 38' w/19 shots Frac w/500 sx. 20/40 sd.
Big Lime Perfs. 2430' to 84' w/25 shots Acidized w/4,000 gal. H

Obstruction in D.V. tool at 2146'

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all and salt water, coal, oil, etc.
Sand & Gravel	Light		0	38	No Coal
Lime & Shale	Brown		38	138	
Sand & Shale	Dark		138	260	
Lime & Silt	Dark		260	485	
Sand	Dark		485	680	
Shale	Dark		680	700	
Sand & Shale	Dark		700	1210	
Sandy Lime	Dark		1210	1226	
Sand	Dark		1226	1294	
Shale & Shells	Dark		1294	1312	
Sand	Dark		1312	1446	
Lime	Dark		1446	1504	
Ravencliff Sd.	White		1504	1542	
Avis. Ls.	Brown		1542	1556	
Silts & Shale	Dark		1556	1852	
U. Maxon	Tan		1852	1865	
Silts & Shale	Dark		1865	2044	
M. Maxon	Tan		2044	2056	
Silts & Shale	Dark		2056	2120	
L. Maxon	Dark		2120	2232	
Silts & Shale	Dark		2232	2418	
Big Lime	Dark		2418	2898	
Weir Sd.	Tan		2898	2918	
Sand & Shells	Brown		2918	3149	T.D.

(Attach separate sheets to complete as necessary)

Monitor Petroleum Corporation

Well Operator

By [Signature]

Its President

NOTE: Regulation 2.02(f) 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."

* Co-mingled CAOF 241 mcf/d.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 25 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 25 April, 1979

Surface Owner Willie Hall

Company Monitor Petroleum Corp.

Address Dameron, W. Va.

Address 489 Fifth Ave, N.Y.C., N.Y 10017

Mineral Owner Geo. E. Clay et al

Farm Geo. E. Clay Acres 212.7

Address Glen Daniels, W. Va.

Location (waters) Bee Br. of Sand Run

Coal Owner same

Well No. 2 Elevation 1790.75

Address --

District Marsh Fork County Raleigh

Coal Operator none

Quadrangle Arnett

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 12-30-79.

INSPECTOR
TO BE NOTIFIED Leroy Hopkins
ADDRESS Arnett, W. Va.
PHONE 058-4280

John S. [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 9 August 1973 by Geo. E. Clay et al made to Columbia Gas Trans. and recorded on the First day of October 1973, in Raleigh County, Book 38 Page 72

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, Monitor Petroleum Corp.
(Sign Name) William S. Beardsley
Well Operator
P.O. Box 2683
Street
Charleston, W. Va.
City or Town
West Virginia 25330
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

47-081-0473 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 Falcon Drlg. Co. NAME W. E. Bennett
 ADDRESS Charleston, W. Va. ADDRESS Box 2683, Charleston, WV 25330
 TELEPHONE 343-0542 TELEPHONE 345-0216
 ESTIMATED DEPTH OF COMPLETED WELL: 3300' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Weir Sand
 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 (LBS) OR SACKS - CUBIC FT.
20 - 16 '16"	30'	30'	to surface
13 - 10			
9 - 5/8			
8 - 5/8 8 5/8"	1200'	1200'	to surface
7			
5 1/2			
4 1/2 4 1/2"	3300'	3300'	100 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60' FEET 210' SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 550', 630', 760', 910'
 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