



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

WELL LOCATION MAP
FILE NO. GIL-3205

+ 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.

47-021 JUN 27 1978

4900' Benson 6-6 Glenville North (182)



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Union Drilling Co. Rig #1
Rotary X Oil
Cable Gas X
Recycling Comb.
Water Flood Storage
Disposal (Kind)

Quadrangle Glenville 74-15

Permit No. GIL-3205

Company NRM Petroleum Corp.
Address Box 190, Glenville, W.Va.
Farm C. H. Killingsworth Acres 11.75
Location (waters) Stewarts Cr.
Well No. 1 Elev 958 EKB
District Glenville County Gilmer
The surface of tract is owned in fee by Ethel Berry
Address Baldwin, W.Va.
Mineral rights are owned by Killingsworth & Gallergher
Drilling Commenced 6-25-78
Drilling Completed 6-30-78
Initial open flow 16 M cu. ft. bbls.
Final production 1,400M cu. ft. per day bbls.
Well open hrs. before test 2,420# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
18-10" 11"	15'	15'	
9 5/8			
8 5/8	562	562	140 sks. Dow.
7			
5 1/2			
4 1/2		4900	320 sks. Dow.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Cedar Creek - frac. with 500 gal. HCl & 10,000# 80/100, 30,000# 20/40 in 542 Bar. water
Benson - frac. with 500 gal. HCl & 10,000# 80/100, 30,000# 20/40
Bradford - frac. with 500 gal. HCl & 30,000# 20/40 in 485 Bar. water
Coal was encountered at Feet Inches
Fresh water 50', 180' Feet Salt Water Feet
Producing Sand Cedar Creek, Benson, Bradford Depth 4703-63, 4372-86, 3555-68
16 holes, 14 holes, 14 holes

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & shale			0	60	Water 50'	
Shale & sand			60	1476	Water 180'	
Big Lime			1476	1570		
Injun			1570	1686		
Sandy shale			1686	1740		
W-ir			1740	1868		
Sandy shale			1868	2818		
Shale			2818	3554		
Bradford			3554	3568	Show gas	
Silty shale			3568	3864		
Shale			3864	4367		
Benson			4367	4384	Gas	
Silty shale			4384	4646		
Cedar creek			4646	4812	Gas show	
Shale			4812	-		
Total Depth			-	4951		<i>Brallier</i>

FOF = 16 MCFPD

Logged by Allegheny Nuclear Surveys

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JUN 18 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.

DATE 6-14-78

Surface Owner Ethel Berry
Address Baldwin, W.Va.
Mineral Owner C.B. Killingsworth & E. Gallenghar
Address _____
Coal Owner Same
Address _____
Coal Operator None
Address _____

Company NRM Petroleum Corporation
Address P.O. Box 190 Glenville
Killingsworth Acres 11.75
Location (waters) Stewarts Creek
Well No. # 1 Elevation 960'
District Glenville County Gilmer
Quadrangle Glenville- 7 1/2 min.

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 10-16-78.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Goodnight
ADDRESS Smithville, W.Va.
PHONE 477-2455

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 January 26 1952 by C.B. Killingsworth made to G.W. Miller and recorded on the _____ day of _____ 19____, in Gilmer County, Book 173 Page 390
☒ 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) R. L. Hopkins

Well Operator

P.O. Box 190

Street

Glenville

City or Town

W.Va. 26351

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

GIL-3205

PERMIT NUMBER

47-021

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

PROPOSED WORK ORDER TO ☒ DRILL ☐ DEEPEN ☐ FRACTURE-STIMULATE
DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
NAME Union Drilling Co. NAME Rick Hopkins
ADDRESS Buckhannon, W.Va. ADDRESS P.O. Box 190 Glenville, W.Va
TELEPHONE 672-4610 TELEPHONE 462-7926
ESTIMATED DEPTH OF COMPLETED WELL: 4900 ROTARY ☒ CABLE TOOLS ☐
PROPOSED GEOLOGICAL FORMATION: Sonson
TYPE OF WELL: OIL ☐ GAS ☒ 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			
9 - 5/8			
8 - 5/8	650	650	Cement to surface
7			
5 1/2			
4 1/2		4900	300 sbs.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
APPROXIMATE COAL DEPTHS _____
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