



1.63 miles
TO INTERSECTION
WITH STATE ROUTE
34

Source of elevation: Road intersection on Cow Creek road (40/1) with elevation of 748 feet above sea level.

- New Location
- Drill Deeper
- Redrill
- Abandonment

"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 3 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company	NEDCO, INC.		
Address	191 KANAWHA VALLEY BLDG. CHARLESTON, W. VA.		
Farm	BERRY-JOHNSTON		
Tract	Acres	136	Lease No.
Well (Farm) No.	1	Serial No.	N-1
Elevation (Spirit Level)	989.79		
Quadrangle	ST. ALBANS-15 ^{NW} SCOTT DEPOT-7 1/2'		
County	PUTNAM	District	TRAYS VALLEY
Engineer	JOHN GALPIN		
Engineer's Registration No.	875		
File No.	Drawing No.		
Date	3-13-72	Scale	1" = 400'

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

WELL LOCATION MAP
FILE NO. Put-767

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED
MAR 16 1973
OIL & GAS DIV.
DEPT. OF MINES

WELL RECORD

Quadrangle St. Albans

Permit No. PUT 767

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

Company NEDCO INC.
Address 1901 Kan. Valley Bldg. Chas. W. Va.
Farm Berry - Johnson Acres 136
Location (waters) Cow Creek
Well No. N - 1 Elev. 989.79
District Teays Valley County Putnam
The surface of tract is owned in fee by Sybil Berry & Forrest Johnson
Address Benedict Road & Cow Creek
Mineral rights are owned by Berry - Johnson-McCallister Address _____
Drilling Commenced 4-3-72
Drilling Completed 4-18-72
Initial open flow _____ cu. ft. _____ bbls.
Final production 300 M 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. 16"	12"	12'	To surface
12 1/2" 11 3/4"	1020	0'	
9 5/8"			
8 5/8" 71 jts.	2253	2253	500 Cu. Ft.
7"			
5 1/2"			Cementing by Well Service Inc.
4 1/2"			
3 1/2"	4712	4712	50 sks (150 ft.)
2"			
Liners Used			

Well treatment details:

Attach copy of cementing record.

4-26-72 Perforated by Birdwell - 3 holes/ft.

4670-4675

Coal was encountered at NONE Feet _____ Inches 1680
Fresh water _____ Feet 100 Salt Water _____ Feet 1620
Producing Sand Oriskany Depth 4668 Feet 1130

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay	Red		0	5		
Sand, Rock			5	10		
Shale			10	20		
Red Rock			20	50		
Shale & Red Rock			50	80		
Sandy Shale			80	100	Water	
Sand			100	113		
Red Rock			113	130		
Sand			130	142		
Red Rock & Shale			142	200		
Shale			200	308		
Sand & Shale			308	330		
Sand			330	380		
Red Rock & Shale			380	405		
Sand			405	447		
Sand & Shale			447	485		
Red Rock			485	510		
Sand & Shale			510	680		
Shale			680	850		
Sand			850	868		
Sand & Shale			868	922		
Sand			922	949		
Sand & Shale			949	966		
Sand			966	993		

(over)

* Indicates Electric Log tops in the remarks section.

MAR 29 1973

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			993	1002		
Sand			1002	1140	Water - 1130	
Sand & Shale			1140	1274		
Sand			1274	1315		
Sand & Shale			1315	1501		
Sand			1501	1585		
Sand	Wt.	Hard	1585	1680	Water - 1620 & 1680	
Sand	"	"	1680	1902		
Lime	"	"	1902	2060		
Sandy Lime			2060	2160		
Sandy Shale			2160	2232		
Sandy Lime			2232	2350		
Shale			2350	2535		
Sand			2535	2565		
Sand & Shale			2565	3850		
Sand & Shale			3850	4581		
Lime - Onond.			4581	4669		
Limey Sand - Oriskany			4669	4689	Gas Pay @ 4670	
Sandy Lime - Heiderberg			4689	4718 T.D.		

4581 4669
 990 990
 3591 3679

Date March 1, 19 23

APPROVED P. H. Smith, Owner

By President
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAR 24 1972-CEN

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 13, 1972

Surface Owner S. E. Berry & F. D. Johnston

Company Nedco, Inc.

Address _____

Address 1901 Kanawha Valley Bldg., Charleston, W. Va.

Mineral Owner See below

Farm Berry-Johnston Acres 136

Address _____

Location (waters) Cow Creek

Coal Owner _____

Well No. 1 S-77-1 Elevation 989.79'

Address _____

District Teays Valley County Putnam

Coal Operator _____

Quadrangle St. Albans - 15 Min.

Address _____

Scott Depot - 7 1/2 Min.

Mineral Owners:

- S. E. Berry (widow)
- Forest D. Johnston and Margaret Johnston
- J. Frank McCallister and Elma McCallister
- Frances Williams
- Mrs. Lon C. Williams

INSPECTOR TO BE NOTIFIED

Mr. Kenneth Butcher
Barboursville, W. Va. PH: 736-4885
W. Va. 25504

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 Aug. 11 1965 by Berry Johnston made to Teavee Oil & Gas, Inc. and recorded on the 9 day of Sept. 1965 in Putnam County, Book 52 Page 287

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.

Very truly yours,

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 July 24, 1972.
[Signature]
Deputy Director - Oil & Gas Division

[Signature]
Well Operator
1901 Kanawha Valley Building
Street
Charleston
City or Town
West Virginia
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 there to by the department, and that the same is approved and the well operator authorized to proceed.

Put-767 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 Nedco, Inc. NAME Richard P. Hall
 ADDRESS 1901 Kanawha Valley Bldg., Chas., W. Va. ADDRESS Ferry St., Winfield, W. Va.
 TELEPHONE 3422125 TELEPHONE 755-5202
 ESTIMATED DEPTH OF COMPLETED WELL: 4500 ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL GAS X COMB STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM

CASING AND TUBING SIZE	USED FOR LOGGING	FILL IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 8.8	150 Feet	150 Feet	98 Sacks
8 - 7.8			
7	1970 Feet	1970 Feet	15 Sacks
5.5			
4			
3	4500	4500	Per. Top
2			Per. Bot
1 1/2			Per. Top
1			Per. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER 1884 FEET
 APPROXIMATE COAL DEPTHS None anticipated
 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 ALL 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 of the permit as 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 1, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official File