



Source of Elevation Elev. Well No. 1 - 931'

- Fracture.....
- New Location.....
- Drill Deeper.....
- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Map No.

Company CARNEGIE NATURAL GAS CO.

Address Munhall, Pennsylvania

Farm N. B. Phillips

Tract Acres 84.5 Lease No. 4189

Well (Farm) No. Two Serial No. 1791

Elevation (Spirit Level) 1109

Quadrangle Center Point NC

County Doddridge District McClellan

Engineer [Signature]

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date June 6, 1974 Scale 1" = 300' = 495

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

WELL LOCATION MAP

FILE NO. Dodd-1771

+ 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. 47-017

3500 5th June
 66 Smithton-Flint-Sedalia (99)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Centerpoint N.E.

Permit No. Dodd - 1771

Company Carnegie Natural Gas Company
Address 3904 Main St, Munhall, Pa. 15120
Farm N. B. Phillips Acres 86
Location (waters) Beverlin Fork
Well No. 2-1791 Elev. 1109
District McClellan County Doddridge
The surface of tract is owned in fee by _____
Ray Willie
Address Center Point, W. V. 26339
Mineral rights are owned by E. W. Phillips
Address 243 Heff Ave., Warwood, W. V.
Drilling Commenced August 26, 1974
Drilling Completed September 2, 1974
Initial open flow 35,500 cu. ft. _____ bbls.
Final production 520,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test 226 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	250	250	100 sacks
8 5/8			
7	2067	2067	35 sacks
5 1/2			
4 1/2	3177	3177	105 sacks
3			
2			
Liners Used			

Well treatment details:

Perforated: 3150-3154. Fractured with 417 barrels of water, 10,000% sand, using 500 gallons mud acid to breakdown.
Perforated: 2902-2909, 2924-2926, using sand plug to plug off lower fracture. Fractured with 470 barrels of water, 10,000% sand, using 500 gallons of mud acid to breakdown.
Perforated: 2144-2166, running baffie ball to 2243. Fractured with 456 barrels of water, 10,000% sand, using 1,000 gallons of acid to breakdown.

Coal was encountered at _____ no coal _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injan, Fourth and Fifth _____ Depth 2144-2266, 2902-2926, 3150-3154

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	10		
Shale			10	22		
Sand			22	35		
Red Rock			35	42		
Sand			42	60		
Shale			60	75		
Sand			75	95		
Shale			95	114		
Red Rock			114	122		
Shale			122	137		
Sand			137	157		
Red Rock			157	175		
Sand			175	182		
Shale			182	201		
Sand			201	237		
Shale			237	273		
Sand			273	323		
Shale			323	332		
Sand			332	365		
Shale			365	395		
Sand			395	460		
Shale			460	472		

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* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			472	484		
Shale			484	528		
Sand			528	570		
Red Rock			570	585		
Sand			585	630		
Shale			630	706		
Sand			706	730		
Shale			730	794		
Sand			794	812		
Shale			812	822		
Sand			822	872		
Shale			872	888		
Sand			888	910		
Shale			910	922		
Sand			922	929		
Shale			929	944		
Sand			944	961		
Shale			961	1004		
Sand			1004	1010		
Red Rock			1010	1038		
Shale			1038	1103		
Sand			1103	1116		
Shale			1116	1125		
Sand			1125	1185		
Shale			1185	1200		
Sand			1200	1205		
Shale			1210	1240		
Sand			1240	1278		
Shale			1278	1390		
Sand			1390	1430		
Shale			1430	1450		
Sand			1450	1455		
Shale			1455	1500		
Sand			1500	1540		
Shale			1540	1555		
Sand			1555	1570		
Shale			1570	1670		
Sand			1670	1678		
Shale			1678	1700		
Sand			1700	1715		
Shale			1715	1745		
Sand			1745	1794		
Shale			1794	1852		
Sand			1852	1875		
Shale			1875	1910		
Sand			1910	1926		
Shale			1926	1936		
Sand			1936	1942		
Red Rock			1942	1980		
Sand			1980	1986		
Shale			1986	1999		
Red Rock			1999	2015		
Shale			2015	2023		
Little Lime			2023	2036		
Tencil Cave			2036	2055		
Big Lime			2055	2118		
Big Injun			2118	2275		
Shale			2275	2410		
Sand			2410	2455		
Shale			2455	2535		
Sand			2535	2580		
Shale			2580	2587		

Continued on page 2

Date MARCH 6 19 15

APPROVED CARNEGIE NATURAL GAS Owner

By Roger E. Dewey

(Title)

GEOLOGIST

Dodd-1771



Page II of II

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD ²

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

Quadrangle Centerpoint N.E.

Permit No. Dodd - 1771

Company _____
Address _____
Farm _____ Acres _____
Location (waters) _____
Well No. _____ Elev. _____
District _____ County _____
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling Commenced _____
Drilling Completed _____
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.
Well treatment details: _____

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

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			2587	2624		
Shale			2624	2643		
Sand			2 - 2643	2663		
Shale			2663	2720		
Sand			2720	2738		
Shale			2738	2815		
Sand			2815	2886		
Shale			2886	2905		
Sand	Fourth		2905	2918		
Shale			2918	2931		
Sand			2931	2948		
Shale			2948	2960		
Sand			2960	2980		
Shale			2980	3060		
Sand			3060	3070		
Shale			3070	3171		
Sand	Fifth		3171	3196		
Shale			3196	3223		
					Total Depth	

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* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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AUG 1 1974

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 Ray Willie
Address Center Point, W. Va. 26339
Mineral Owner B. W. Phillips
Address 243 Heff Ave., Warwood, W. Va.
Coal Owner No coal
Address _____
Coal Operator _____
Address _____

DATE July 29, 1974
Company Carnegie Natural Gas Company
Address 3904 Main St., Munnhall, Pa. 15120
Farm N. B. Phillips Acres 86
Location (waters) Beverlin Fork
Well No. 2-1791 Elevation 1109
District McClellan County Doddridge
Quadrangle Center Point NE

PERMIT MUST BE POSTED AT THE WELL SITE

Operations being in accordance with Chapter 22,
of the W. Va. Code, this location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 12-1-74.

INSPECTOR TO BE NOTIFIED Paul Garrett
Clarksburg, W. Va. PH 622-3871
26301

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 May 16 1903 by N. B. Phillips made to H. L. Smith and recorded on the 27th day of July 1906 in Doddridge County, Book 27 Page 28

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, CARNEGIE NATURAL GAS COMPANY
(Sign Name) J. W. Swinney Well Operator DIV. Supt.
3904 Main St. Street
Munnhall City or Town
Pennsylvania State

PLEASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:

Virginia Geological and Economic Survey
Box 879
Charleston, W. Va. 26505
4-296-4461

Address
of
Well Operator

*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.

Dodd-1771 PERMIT NUMBER
47-017

BLANKET CARD

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 Hugh K. Spencer NAME J. W. Sweeney
 ADDRESS West Union, W. Va. 26456 ADDRESS Drawer No. 307, Marminton, W. Va. 26508
 TELEPHONE 304-873-1602 TELEPHONE 986-2060
 ESTIMATED DEPTH OF COMPLETED WELL: 3500 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Fifth Sand
 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	250'	250'	to surface
8 - 5/8			
7	2030'	2030'	
5 1/2			
4 1/2	3000'	3000'	1000'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS no coal
 IS COAL BEING MINED IN THE AREA? _____ 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

