



COAL NOTE
NO COAL OPERATIONS
IN THIS AREA

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200."

L.L.S. No. 108
BOX 238 HAMILIN, WV

Signed James B. Reynolds

Company PETROLEUM TECHNOLOGY CORP.
 Address 537 REDMOND WASHINGTON
 Farm COLUMBIA GAS TRANS. CORP.
 REF. DELMAS & ANN BECKELHEIMER
PT. 24686 Acres 33553.18
 Well Farm No. _____ Ser. No. P.T.C. #6
 Elevation - Spirit Level 978.89'
 Quadrangle NESTLOW WAYNE, 18'
 Township or District SHERIDAN
 County LINCOLN
 Sec., Lot, Gr. _____ T _____ R _____
 Coordinates LAT: 38° 14' 20" LONG: 82° 16' 21"
 File No. 26-47 Dwg. No. _____
 Date 5-6-78 Scale 1" = 400'

FORM 1498 CE 4 CSD

WELL LOCATION MAP
STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

LIN - 1851

Scale 15' 7 1/2'

3-0 **233**
FOURMILE-BRACHLAND
47-043 JUN 7 1978

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IV-35 (Rev 8-81) FEB 1 - 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date 26 January 1982 Operator's Well No. PTC-6 Farm Col. Gas Trans. Corp. API No. 47 - 043 - LIN 1851

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

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

LOCATION: Elevation: 978.89 Watershed Beckelheimer Branch District: Sheridan County Lincoln Quadrangle Nestlow

COMPANY Petroleum Technology Corporation

ADDRESS P.O. Box 537, Redmond, WA 98052

DESIGNATED AGENT James R. Page, Jr.

ADDRESS Rt 1, Box 90B, Branchland, WV 25506

SURFACE OWNER Delmas & Ann Beckelheimer

ADDRESS Ashland, KY

MINERAL RIGHTS OWNER Columbia Gas Transmission

ADDRESS P.O. Box 1273, Charleston, WV 25325

OIL AND GAS INSPECTOR FOR THIS WORK Kenneth

Butcher ADDRESS Rt 1, Barboursville, WV

PERMIT ISSUED 8 June 1978

DRILLING COMMENCED 22 June 1978

DRILLING COMPLETED 29 June 1978

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

Table with 4 columns: Casing Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3707 feet

Depth of completed well 3712 feet Rotary x / Cable Tools

Water strata depth: Fresh 70 feet; Salt 1250 feet

Coal seam depths: 532-535, 553-555 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3707 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow - Bbl/d

Final open flow ? Mcf/d Final open flow - Bbl/d

Time of open flow between initial and final tests - hours

Static rock pressure - psig (surface measurement) after - hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

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

19 July 1979 shot well, successfully but during clean out tools were lost, fishing unsuccessful and well had to be abandoned.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	14	
Sand			14	50	
Shale			50	80	
Red rock and shale			80	105	
Sand			105	180	
Shale			180	220	
Sand			220	455	
Shale			455	480	
Sand and shale			480	522	
Shale			522	532	
Coal			532	535	
Shale			535	553	
Coal			553	555	
Shale			555	600	
Sand and shale			600	985	
Sand			985	1160	
Shale			1160	1235	
Salt sand			1235	1370	1250' salt water
Red rock and shale			1370	1475	
Maxon sand			1475	1531	
Big lime			1531	1722	
Injun			1722	1766	
Shale and sand			1766	1905	
Shale			1905	2270	
Coffee shale			2270	2290	
Berea			2290	2315	
Gray shale			2315	2790	
Brown shale			2790	3355	
White shale			3355	3635	
Marcellus			3635	3707	
Coniferous			3707	3712	TD 3712'

from log
Top section 3110
Base 3319
Detailed logs 3454
Checked 3604

(Attach separate sheets as necessary)

PETROLEUM TECHNOLOGY CORPORATION

Well Operator

By:

Arthur M. Spencer

Arthur M. Spencer

Date: January 27, 1982

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

JUN - 1 1978

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 May 31, 1978

Surface Owner Delmas & Ann Beckelheimer

Company Petroleum Technology Corporation

Address _____

Address P.O. Box 537, Redmond Washington

Mineral Owner Columbia Gas Transmission Corp.

Farm Col. Gas Trans. Corp. Acres 33553.18

Address P.O. Box 1273, Charleston, WV 25325

Location (waters) Beckelheimer Branch

Coal Owner Same as above

Well No. P.T.C. #6 Elevation 978.89

Address _____

District Sheridan County Lincoln

LESSEE
Coal Operator Columbia Coal Gasification

Quadrangle Nestlow

Address P.O. Box 1180, Ashland, KY 41101

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 10-1-78.

INSPECTOR
TO BE NOTIFIED Kenneth Butcher

ADDRESS RT. 1, Barboursville, WV

PHONE 736-4885

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 June 30 19 71 by United Fuel Gas Co. made to Columbia Gas Trans. Corp. and recorded on the 7th day of July 19 71 in Lincoln County, Book 182 Page 73

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)
Well Operator
Vice President and General Manager
P.O. Box 1273
Street
Charleston,
City or Town
West Virginia 25325
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.

LIN-1851

PERMIT NUMBER

47-043

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by

Survey

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 _____ NAME Walter Chapman
 ADDRESS _____ ADDRESS P.O.Box 528, Hamlin, WV
 TELEPHONE _____ TELEPHONE 824-5131
 ESTIMATED DEPTH OF COMPLETED WELL: 3700 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Brown Shale
 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 FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - H 3/8	60'		Cement to surface
9 - 5/8	550'		Cement to surface
8 - 5/8			
7	1870'		
5 1/2			
4 1/2			
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.

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JUN - 1 1978

COAL DIVISION
DEPT. OF MINES

For Coal Company

Official Title