

Fracture.....
 New Location..... 7/15/77
 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: Joe D Gubb
 Squares: + N - S + E - W

Map No. _____

Company LASCO PRODUCTION COMPANY
 Address P.O. BOX 1033 HUNTINGTON, W.VA.
 Farm COLUMBIA GAS TRANSMISSION Co.
 Tract _____ Acres 808 Lease No. _____
 Well (Farm) No. 5 Serial No. WC
 Elevation (Spirit Level) 1375.78 Holden 15'
 Quadrangle TRACE, W.VA 7 1/2 MINUTE
 County MINGO District HARVEY
 Engineer Joe D Gubb
 Engineer's Registration No. LLS NO 509
 File No. _____ Drawing No. _____
 Date Feb. 23, 1977 Scale WELLA-WELLS 1"=400'

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

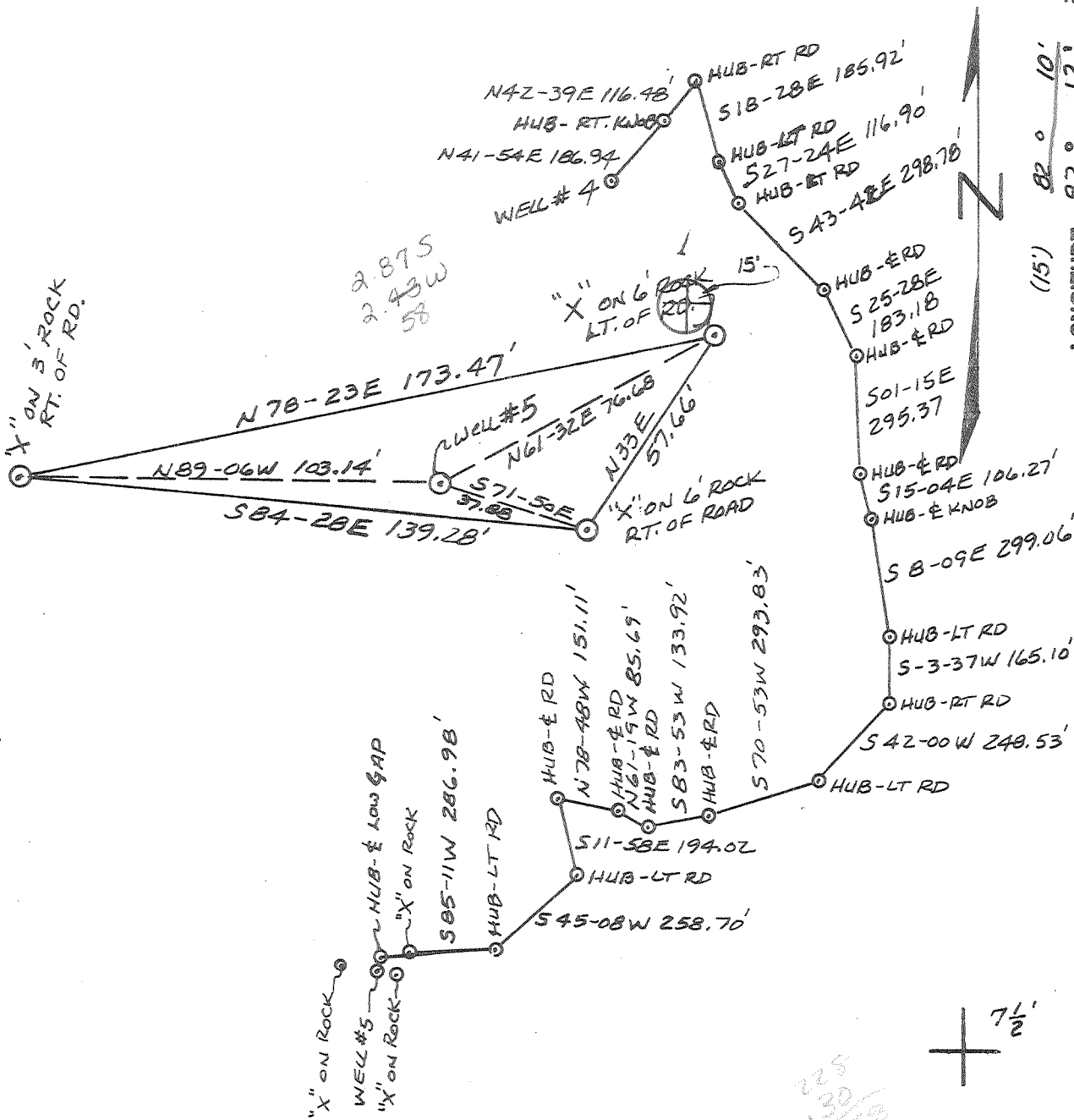
WELL LOCATION MAP
 FILE NO. MING-867-P

+ 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. 47-059

LATITUDE 37° 55'

LONGITUDE 82° 10' 30"



Minimum Error of Closure 1' IN 5000'

Source of Elevation USGS BM NO 15B W ROCK CLIFF SHOWN ON 1963 TRACE, W.VA. NW/4 HOLDEN 15' QUADRANGLE

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AUG - 5 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 4

Quadrangle Holden
Permit No. MIN 867

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

Company Lasco Production Co.
Address 3327 Rt. 60E. Huntington, W. Va. 25705
Farm Central Trust Acres 808
Location (waters) Twelve Pole Creek
Well No. 5 Elev. 1375.78
District Harvey County Mingo
The surface of tract is owned in fee by Central Trust Co.
Address _____
Mineral rights are owned by Columbia Gas Trans. Corp. Address Charleston, W. Va.
Drilling Commenced 3/28/77
Drilling Completed 7/9/77
Initial open flow Show cu. ft. _____ bbls.
Final production 30,000 cu. ft. per day _____ bbls.
Well open 24 hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	20'		
9 5/8			
8 5/8	788'	788'	Cemented to surface
7	1918'	1885'	
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Date shot 7/11/77 from 3418' to 4120' with 5,166 lbs. of 80% gelatin -
Open flow 24 hrs. 8/10 W 1" or 30,000 cu. ft. per day

Coal was encountered at 36-39, 339-342 Feet _____ Inches
Fresh water 60 Feet 1220' to 1222' Salt Water _____ Feet _____
Producing Sand Brown Shale Depth 3525 to 4118

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	2		
Sand			2	36		
Coal			36	39		
Slate			39	70		1/2 bailer 60' (water)
Sand			70	212		
Slate			212	215		
Sand			215	330		
Slate			330	339		
Coal			339	342		
Slate			342	380		
Sand			380	631		
Slate			631	638		
Sand			638	672		
Slate			672	740		
Sand			740	788		
Slate			788	845		
Sand			845	918		Show of gas at 890'
Slate			918	1040		
Broken Sand			1040	1215		
Sand			1215	1340		Water at 1220' to 1222'
Slate			1340	1504		hole full
Sand			1504	1768		
Slate & shell			1768	1801		
Red Rock			1801	1805		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>4</i>	Bottom Feet	Oil, Gas or Water	* Remarks
Slate & shell			1805	1866		
Black Lime			1866	1897		
Big Lime			1897	2040		
Red Injun			2040	2109		
Gray Injun			2109	2159	Show of gas 2130' to 2138'	
Weir shells			2159	2188	Show of oil at 2159' to 2164'	
Slate & shells			2188	2680		
Coffee Shale			2680	2701		
Berea Grit			2701	2800		
White Shale			2800	3525		
Brown Shale			3525	3773		
White Slate			3773	4043		
Brown Shale			4043	4118		
Corniferous			4118			
<u>TOTAL DEPTH</u>				4120		

Date July 15, 19 77

APPROVED H.A. Sp... [Signature] Owner

By [Signature]
(Title)
Gen. Mgr. of operations



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MAR 9 - 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 2, 1977

Surface Owner Central Trust Co

Company Lasco Production Co

Address _____

Address 3327 Rt 60 East Htgn W.Va. 25705

Mineral Owner Columbia Gas Trans, Corp

Farm Central Trust Acres 808

Address Charleston, W.Va.

Location (waters) Twelve Pole Creek

Coal Owner Same

Well No. 5 Elevation 1375.78

Address _____

District Harvey County Mingo

Coal Operator None

Quadrangle Holden

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 7-9-77.

INSPECTOR

TO BE NOTIFIED Arthur St. Clair

ADDRESS P. O. Box 157, Brenton, WV.

PHONE 732-6227

[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 10-15 1971 by Columbia Gas Trans Corp made to Fire, Fry Pan O&G Co and Lodge and recorded on the 5-3-72 day of _____

1977, in Mingo County, Book 24 Page 492

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

Very truly yours, LASCO PRODUCTION CO
(Sign Name) Virginia Rutherford
Well Operator

Address of Well Operator
3327 Rt 60 E Street
Htgn City of Town
WV 25705 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 BAND

MIN-867 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12.5 and will carry out the specified requirements."

Signed by [Signature]

47 059

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Oliver Jenkins NAME Virginia Rutherford
 ADDRESS Paintsville, Ky ADDRESS 3327 Rt 60 East Htgn, W.Va 25705
 TELEPHONE _____ TELEPHONE 5238169
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: _____
 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 - 10			
9 - 5/8			
8 - 5/8	400'	400'	70 Sacks
7	1500'	1500'	
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 30 FEET 200' SALT WATER 600 FEET
 APPROXIMATE COAL DEPTHS 35-200-300
 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