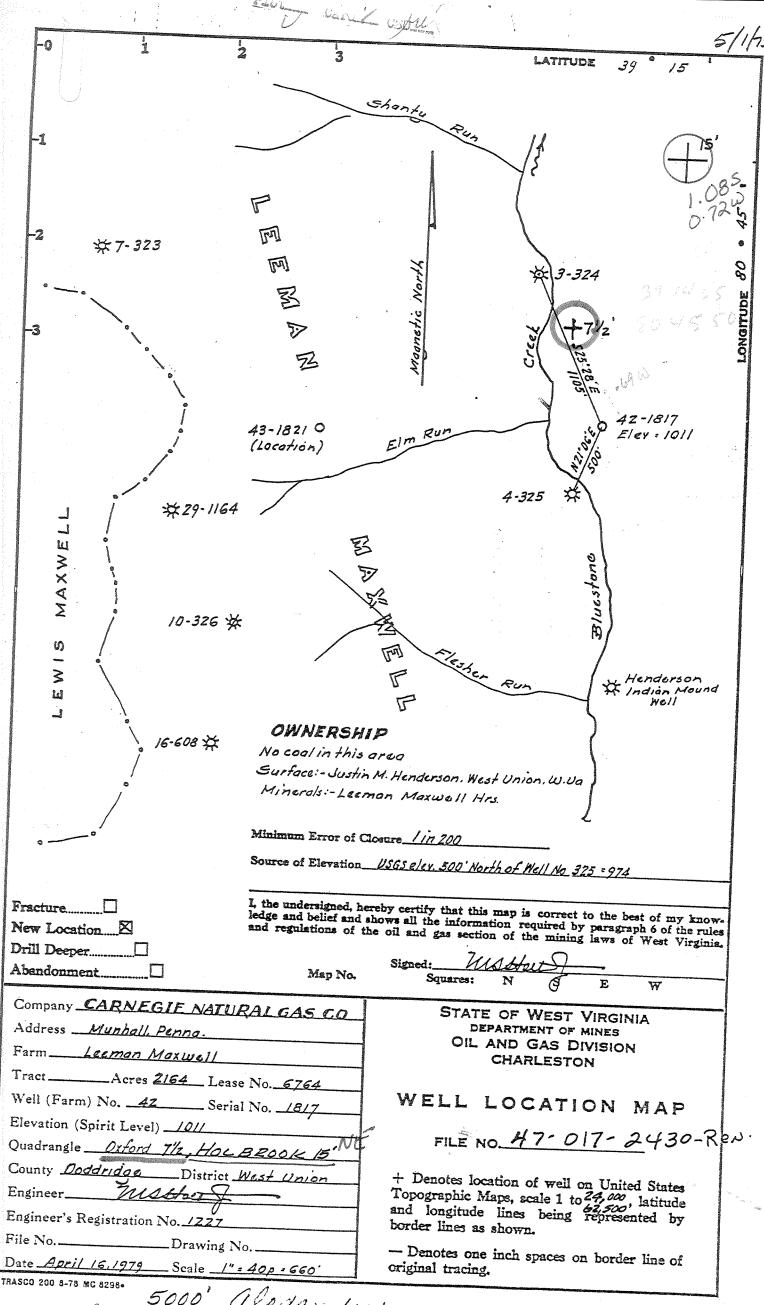
# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO_	DRILL	DEEPEN F	RACTURE-STIMULATE
DRILLING CONTRACTOR: (If K	(nown)		
NAME	no Comence		
ADDRESS	A4111	700 W 452 W 45 700 W	die
TELEPHONE			
		DOTA DE	2921
ESTIMATED DEPTH OF COMPLE	AELON	RUTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORMA			
TYPE OF WELL: OIL	GAS	COMB STORAGE	DISPOSAL
	RECYCL	ING WATER FLO	ODOTHER
TENTATIVE CASING PROGRAM:	-		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			the second second second
13 - 10			222
9 - 5/8			
8 - 5/8		32301	Communication surface
7		1998/07/2017	
5 ½			
4 ½	3000	5000	600
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom
SUBMIT FIVE (5) COPIES OF OF PLAT.  TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED.  TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORICE BOND, PERMANENT PLAT AND OIL AND/OR GAS WELL ORICE ING ORIGINAL PERMIT NUMB  Required forms must be filed we four (24) hours in advance.	OG - 1, SHOWING ORIGI 1929, A PERMANENT CO GINALLY DRILLED BEFOR ND ORIGINAL WELL REC GINALLY DRILLED ON AN SER, AND PERFORMANCE	INAL PERMIT NUMBER AND OPY OF THE PLAT AND TH RE JUNE 5, 1929, FIVE (5) CO CORD. ND/OR AFTER JUNE 5, 1929 BOND.	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW-
	forand place on our mine ma	Coal Company, Owner of this proposed well location	or Operator of the coal under
	plied with all rules and regu	lations in Articles 4, 5, and 7,	being drilled at this location, Chapter 22 of the West Virginia  Coal Company
The second of th			Official Title



5000' alefander STRAIGHT FA-BLUES

MAY 12 1981



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division

### WELL RECORD

Quadra	ngle	Holbrook N.	E.
Permit	No.	1,7-017-21:30	

Rotary_X_	Oil
Cable	Gas_X
Recycling	Comb.
Water Flood	
Disposal	10:0

Quadrangle Holbrook N. E.  Permit No. 1.7-017-21.30	ygggan saar o de respecto de saar sa		,	Recycling Water Flood Disposal	CombStorage(Kind)
Company Carmegie Natural GasCom 390 Main St. Munhall,  Farm Leeman Maxwell A	Pa. 15120	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Blustone Creek  Well No. 12-1817 El  District West Union County Dod	ev 1011' dridge	Size 20-16 Cond. 13-10"			
The surface of tract is owned in fee by Ju M. Henderson		9 5/8			
Address West Union, W.Va. 261.56		8 5/8	1193'	1193'	280 SKS
Mineral rights are owned by Leeman Max	well	7		7-75	
Hrs. Address Various		5 1/2			
Drilling Commenced July 29,	1981	4 1/2	50061	50061	380 SK <b>S</b>
PILLIE COLLINGISCO	1981	3			•
Initial open flow 92.900 cu. ft.		2			
Final production 169-000 cu. ft. per day	bbls.	Liners Used			
Well treatment details:  Fractured by Dowell on, 9/11/198 and 1380 gal. of acid.	31, with 1520	Attach copy of () bbls. of tro	_		KS of sand
Coal was encountered at  Fresh water 55 Fe	et	Salt V	Water		Feet
Producing Sand Alexander, Riley, Bra	saloed, ware	DepthDepth	1		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
Red Clay Shale Sand Shale Limy Sand	0 18 55 112 116	18 55 112 116 200	ि		

		7	
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Red Clay Shale Sand Shale Limy Sand R. R. & Shale Lime Shale Shale Sand Shale & R.R. Shale Shale & R.R. Shale Red Rock Shale Coal	0 18 55 112 116 200 235 280 230 280 33.5 400 431 470 600 625 673	18 55 112 116 200 235 280 33.5 400 1.31 1.70 600 673 676	FEB8-1982  OIL AND GAS DIVISION WY DEPARTMENT OF MINES
Shale Sand R. R. Shale R. R. Sand Shale Shale	676 810 815 860 935 9 <b>65</b> 990 1070	810° 815 860 935 960 990 1070 1110	

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water Remarks
Shale Shale L. Lime Shale B. Lime Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale	1110 1230 -1535 1565 -1570 1670 1715 2910 2960 3260 3290 3700 3930 1580 1595	1230 1535 1565 1570 1670 1715 2910 2960 3260 3290 3700 3930 1580 1595 5050	
T.D.		5050	
			- -

APPROVED Kenneth & Dunay Owner

Seologist





OIL & GAS DIVISION DEFINER OF MINES

#### Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE March 21, 1981
Surface Owner Justin M. Fenderson	Company Carnesia Natural las Carnesia
Address lest linion, 1. Va. 26456	Address 300 420 420 420 420
Mineral Owner 1888 Markett Motivo	Farm AcresAcres
Address	Location (waters)
Coal Owner to Coal Coal	Well No. Elevation
Address	and the second of the second o
Coal Operator	Quadrangle
THIS REGISTED AT THE WELL SITE	
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is horeby approved	
for <u>drilling</u> . This permit shall expire if	TNCDECMOD
	INSPECTOR TO BE NOTIFIED <u>Steve CAsey</u>
operations have not commenced by 12-9-81	Steve Casey
The During	ADDRESS
Deputy Director - Oil & Gas Division	PHONE884-7470
GENTLEMEN:	
title thereto, (or as the case may be) under grant or	upon the above named farm or tract of land for oil and gas, having fe
title thereto, (or as the case may be) under grant or	lease datedand recorded on the day of
title thereto, (or as the case may be) under grant or  made to County, Book	lease dated 19_89by and recorded on the day of Page 27
title thereto, (or as the case may be) under grant or  made to	and recorded on the day of
title thereto, (or as the case may be) under grant or  19 19 19 19 19 19 19 19 19 19 19 19 19 1	and recorded on the day of
title thereto, (or as the case may be) under grant or  made to	and recorded on the day of
The enclosed plat was prepared by a registered en have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received leading to coal owners at their above shown respective addresses.	and recorded on the day of Page
The enclosed plat was prepared by a registered en have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received in Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to	and recorded on the day of
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The enclosed plat was prepared by a registered en have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received leading to the coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL	and recorded on the
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The enclosed plat was prepared by a registered en have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received leader to coal owners at their above shown respective addressame day with the mailing or delivery of this copy to 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	and recorded on the day of
The enclosed plat was prepared by a registered en have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were may or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505	and recorded on the

\*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.

A PART SEAL

47-017-2430-REN.

PERMIT NUMBER