[08-78] OIL AND GAS WELL PERMIT APPLICATION Operator's Well No. 4-1847 API Well No. 47 - 049 - 0689		
OIL AND GAS WELL PERMIT APPLICATION API Well No. 4-1847 API Well No. 4 Address AP	FORM IV-2 (Obverse) STATE OF WEST DEPARTMENT OF MINES, OI	L AND GAS DIVISION TABLE 13, 1981
State County Permit County Coun	[08-78] OIL AND GAS WELL PER	MIT APPLICATION Well No. 4-1847
District: Lincoln County: Marion Quadrangle: Grant Town	WELL TYPE: 011/ Gas X/	API Well No. 47 - 049 - 0689 Fermi
District: Lincoln County: Marion Quadrangle: Grant Town	(If "Gas", Production X / Underground	storage / Deep / Shallow /)
### Address Address Address PO Box 387 Mannington, WV 26582	LOCATION: Elevation: 1040' Watershed:	Buffalo Creek
Address 3904 Main St.	District: Lincoln County:	Marion Quadrangle: Grant Town
Munhall, Pa. 15120	WELL OPERATOR _ Carnegie Natural Gas Co.	DESIGNATED AGENT James C. Stephenson
OIL & GAS ROYALTY OWNER Address John B. Sabel, Agent for Devisees Fairmont Farms, Fairmont, WV 26554 Acreage 126 COAL OWNER(S) WITH DECLARATION ON RECORD: SURFACE OWNER Phillip Edwards Name Same Address Rt. #9, Box 143 Address Fairmont, WV 26554 Phone: 304-366-9319 Name Address COAL UNDERSEE WITH DECLARATION ON RECORD: Name Address Address Address Field SALE (IF MADE) TO: Address OIL & GAS INSPECTOR TO BE NOTIFIED Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above undersigned well operator from H. T. and Emma Lough	Address 3904 Main St.	Address PO Box 387
Address	Munhall, Pa. 15120	Mannington, WV 26582
Address	OIL & GAS	
Raimmont Farms, Fairmont, WV 26554 Sridgeport, WV 26330	Address John B. Sabel, Agent for Devisees	
Acreage 126 COAL OWNER(S) WITH DECLARATION ON RECORD: SURFACE OWNER Phillip Edwards Name Same Address Rt. #9, Box 143 Address Fairmont, WV 26554 Acreage 32 Phone: 304-366-9319 Name FIELD SALE (IF MADE) TO: Address Address COAL LESSEE WITH DECLARATION ON RECORD: Name Address COAL LESSEE WITH DECLARATION ON RECORD: Address COAL LESSEE WITH DECLARATION ON REC	TO A COLOR OF THE	DOT THE REPORT OF THE PROPERTY
Address Rt. #9, Box 143 Address Fairmont, WV 26554 Phone: 304-366-9319 Address FIELD SALE (IF MADE) TO: Address Address COAL LESSEE WITH DECLARATE CELIVED Name Address OIL & GAS INSPECTOR TO BE NOTIFIED Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above undersigned well operator from H. T. and Emma Lough	Acreage 126	
Address Rt. #9, Box 143 Fairmont, WV 26554 Acreage 32 Phone: 304-366-9319 Address FIELD SALE (IF MADE) TO: Address Address Address COAL LESSEE WITH DECLARATION CELLS APR 21 1981 Name OIL & GAS INSPECTOR TO BE NOTIFIED Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease _X / other contract / dated Nov. 16, 1911 _, to the undersigned well operator from H. T. and Emma Lough	SURFACE OWNER Phillip Edwards	
Fairmont, WV 26554 Acreage 32 Phone: 304-366-9319 Name Address COAL LESSEE WITH DECLARATE CELLY Name OIL & GAS INSPECTOR TO BE NOTIFIED Address Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed/ lease X / other contract/ dated Nov. 16 , 19 11 , to the undersigned well operator from	Address Rt. #9, Box 143	
Acreage 32 PIELD SALE (IF MADE) TO: Address Address COAL LESSEE WITH DECLARAPT CENTRY Name Address OIL & GAS INSPECTOR TO BE NOTIFIED Address Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease _X / other contract / dated Nov. 16, 1911 _, to the undersigned well operator from H. T. and Emma Lough	Fairmont, WV 26554	
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Address COAL LESSEE WITH DECLARATE CESTIVE Name OIL & GAS INSPECTOR TO BE NOTIFIED Address APR 2 1 1981 Name William Blosser Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated Nov. 16 , 1911 , to the undersigned well operator from H. T. and Emma Lough	FIELD SALE (IF MADE) TO:	Address
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Name William Blosser Address Rt. #4, Box 317 Fairmont, WV 26554 Phone: 304-363-9105 The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease _X / other contract / dated Nov. 16, 19 11, to the undersigned well operator from H. T. and Emma Lough		Name
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location under a deed / lease X / other contract / dated Nov. 16, 19 11 _, to the undersigned well operator from H. T. and Emma Lough		operate for oil or man numbers at the
undersigned well operator from H. T. and Emma Lough		And the state of t

Other physical change in well (specify)

Recorded on April 29, 19 12, in the office of the Clerk of the County Commission of

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

--planned as shown on the work order on the reverse side hereof.

Redrill_

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lesses on or before the day of the mailing or delivery of this Permit Application to the Department of the Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

County, West Virginia, in

PROPOSED WORK: Drill X / Drill deeper

Plug off old formation

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

Carnegie Natural Gas Company
Well Operator

BLANKET BOND

By James C. Stephenson
Div. Supt.

Book 180 at page 470 . A permit is requested as follows:

Perforate new formation

/ Fracture or stimulate X

Deputy Director - Oil & Gas Division

PROPOSED WORK ORDER

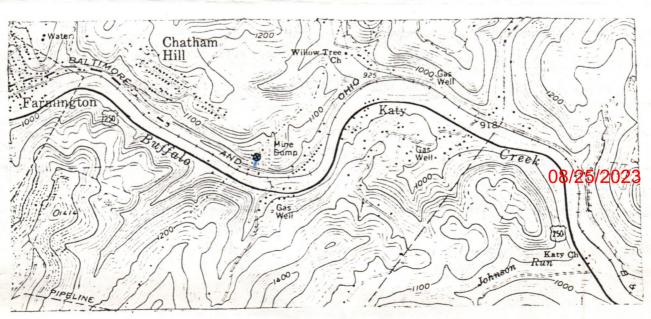
THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

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EOLOGICAL TA						The state of the s	.00 81		
									Cable tools/
								1200 feet.	
Approxim	mate co	oal sea	am dept	hs: _	200-	15 Is	coal being mi	ined in the area	a? Yes/ No_X
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SING OR	1		IFICATI			FOOTAGE	INTERVALS	CEMENT FILL-U	PACKERS
BING TYPE		Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
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esh water						emin .			
al	11-3/	4 H40	42	X		330'	330'	To surface	Sizes
termediate				X		1600'	1600'	To surface	
		2 J55		0 X		5500'	5500'	3000'	Depths set
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lners									Perforations:
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Well	No.	4-1	847			
AP!	11.5	4.7	-	049	-	0689
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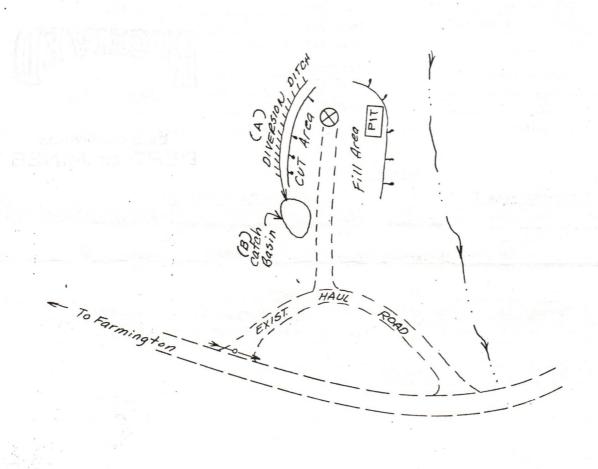
STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS

Address	Carnegie Natura	Gas Compar	nyDesignated Agent J. C. St 5120 Address P.O.Box 3	ephenson
	(412) 462-7121			
	Phillip Edwards		Telephone (304) 986 Soil Cons. District Mono	-2060
				ngalia
	on to be carried o	1		(Agent)
		Proposition for the contract of the contract o	rapher SCD. All	corrections
and additi	ons become a part	of this plan	(Faie)	Berli
			955	S Agent)
	Access Road		Location	
Structure I	Diversion Ditch	(A)	Structure Diversion D	itch (1)
Spacing P	Along top of cut		Material Earthen	
Page Ref. Ma	nual 1-9		Page Ref. Manual 1-9	
Structure	Catch Basin	(B)	Structure	(2)
Spacing For	Rain Water Run-	off	Material	
Page Ref. Ma	nual		Page Ref. Manual	15CELVIEIN
Structure		(C)	Structure	(3)
			Material	
Page Ref. Ma		100	Page Ref. Manual	APR 2 8 1981
All struct	ures should be ins	pected recul	arly and repaired if necess.	2 T.V.
ALL SELECT	ares should be the	pected regul	arry and repaired it mecess.	OIL & GAS DIVISION
			. D	EPT. OF MINES
		Revegeta	tion	
	Treatment Area I		Treatment Area	II
Lime		Tons/acre		Tons/Acre
or correct	to pH 6.5	_	or correct to pm 6.5	- :
Fertilizer	600	lbs/acre		lbs/acre
	U-10-20 or equival		(1.4-7.4-74 of Will	valent!
Mulch Hay		Tons/Acre	MulchHay	2Tons:Acre
Control of the Contro	31 Fescue 35	lbs/acre		lbs/acre
Lad	ino Clover 5		Ladino Clover 5	
		lbs/acre	Eddino Ciover 5	lbs/acre
				lbs/acre
		vetch, trefo	oil and clovers with the pro	lbs/acre
	ll legumes such as Inoculate with 3X	vetch, trefo	oil and clovers with the pro	lbs/acre
		vetch, trefo	oil and clovers with the pro	lbs/acre
		vetch, trefo	oil and clovers with the pro	lbs/acre
		vetch, trefo	oil and clovers with the pro	lbs/acre
bacterium.	Inoculate with 3X	vetch, treforecommended a	oil and clovers with the pro	lbs/acre
Attach or ph	Inoculate with 3X inoculate wi	vetch, treforecommended a	pil and clovers with the programount.	lbs/acre
bacterium.	Inoculate with 3X	vetch, treforecommended a	pil and clovers with the programount.	lbs/acre
Attach or ph	Inoculate with 3X inoculate wi	vetch, treforecommended a	pil and clovers with the programount.	lbs/acre



Diversion
Spring O
Wet Spot
Building
Drain Pipe
Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



NOT TO SCALE

Comments:	15% slope will be on wel	ll road. Cuts will be on a 2	2:1 slope or less.
Dive	ersion ditch along road will	l be maintained after constru	action is completed
	1 0 1t. 1	P. O. Box 387 Mannington, WV 26582	(304) 986-2060
Signature:	James C. Stephensen	Address	Phone 8/25/2023

Please request landowners cooperation to protect new seeding for one growing season.

PORM IV-35

H. T. Lough

TOR'S REPORT

(Obverse)			
		WELL	OPERAT
[08-78]			0
		THE THE THE	- 100 00

Well	No.	4-1847

[08-78]						OF			Wil Mel		- 049 - 068
		DRILI	LING, FR	ACTU	RING A	ND/OR STI	MULATIN	IG, OR PHYS	LUAL CHANGE	State	County Per
UELL MUDE			. X	/ 1	danid	Indoction	_ /	Mosts D	(52)		
WELL TYPE: ((70 110-	_/ 6	as	_ X	, ,	Injection	11/	waste D	isposal G		
LOCATION:	(II "Ga	s", Pr	1040	11		ondergrou	nd Stor	Duffel.	ZE OF		
LOCATION:	cievati	on:	Tingoln		_ w	atersned:	Max	ion ន	STATE I	2	
									20 0	Grant To	
WELL OPERATOR	R Ca	rnegi	e Natur	al C	Gas Co	mpany	DES	IGNATED AG	ENT J. Zin Ste	ephe son,	Div. Supt.
Address	39	04 Ma	in Stre	et				Address	PO Dimere	No. 387	
	Mu	nhall	, Pa. 1	5120					Manningto	on, WV 26	582
								/ 5	- 100 / Fac		
PERMITTED WO									rill/ Pra		
						100 P 3x			ion/		
	Ot	her ph	ysical	chang	ge in	well (spe	cify) _				
								,			
PERMIT ISSUE	D ON _	Apr	il 21		_, 19_	81	OII	L & GAS INS	SPECTOR FOR THI	3 WORK:	
(IF APPLICAE			G OF DRY				Nar	ne	William Blos	ser	
REWORKI								Address	Rt. #4, Box	317	
			, 19						Fairmont, W	7 26554	
GEOLOGICAL T	ARGET F	FORMAT	ION:		Ale	xander			Depth	5500	feet
Depth o	f compl	leted v	well, _	551	.0	feet	Rotar	y_x_/	Cable Tools		200
Water s	trata d	depth:	Fresh	,4	0 fee	et; sa	alt,	feet.			
Coal se	am dept	chs: _	306-	316	de C	_ Is coa	al being	g mined in	the area? NO	_	5.
Work wa	s comme	enced	May	27		, 19_8:	1_, and	d completed	June 29	,	1981
											The state of the s
CASING AND T										- 11	
CASING OR TUBING TYPE		1	Weight	1	1		1		OR SACKS		PACKERS
-	Size	Grade	per it	New	Used	For dril	ling Le	it in well	(Cubic feet)		
Conductor		7	-							Kinds	
Fresh water		-								1	
Coal	0_5/0	V55	24#	x		- 4			410 sacks	Sizes	-
Intermediate	4-1/2		10.50	X				Y	410 sacks		
	4-1/2	033	10.30		1				400 Sacks	Depths	set
Tubing				1					10 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
Liners										Perfora	
					100					100	Bottom
		13-4-11			-	989					
	1		Ballt			h			1	2991 -	
OPEN FLOW DA	TA		lst B			nd				3893 - 4790 -	
Produci	ng form	mation	Elk,	151	and 2	iid .			Pay zone dent		S216
Ga	s: In:	itial	open flo	ow,_	36.5	Mcf/d	01	l: Initia	l open flow, _	:-	t1/1
	Fir	nal op	en flow	, _	375	Mcf/d		Final	open flow,	В	bl/d
		Tim	e of ope	en fl	ow bet	tween init	ial an	d final te	sts, hour		
St	atic r	ock pr	essure,	53	5 1	osig (suri	face me	asurement)	after 17 ho	08/25/	2023
[If ap	licable	e due	to mult	iple	comple	etion]					
Second	produc	ing fo	rmation						Pay zone dent	h	feet
Ga	s: In	itial	open fl	ow,_	1,665	Mcf/d	01	l: Initia	l open flow,	B	t: 'd
									open flow,		
		Tim	e of op	en fl	low be	tween init	tial an	d final te	sts, hour	3	

Static rock pressure, _____ psig (surface measurement) after _____ hours shut it.

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

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
Fill	Gray-Brown		0	15	
Shale	Gray		15	30	
Sand	Gray		30	45	1" water at 40'
Shale	Gray		45	60	
Sand	Gray		60	92	
Shale	Green		92	102	
Lime	Brown		102	120	
Sand	White		120	140	
Lime and Sand	Brown-Gray		140	165	
Sand and Shale	Gray		165	180	
Shale	Gray		180	240	
Lime and Sand	Brown-Gray		240	260	
Shale	Gray		260	306	
Coal	Black		306	316	
Shale	Gray		316	330	
Sand	Gray-White		330	359	
Sand	Brown		359	375	
Sand and Shale	Gray		375	430	
Shale and Red Rock	Gray		430	570	
Sandy Shale	Gray		570	640	The state of the s
Red Rock	Red		640	650	
Limy Shale	Gray		650	660	
Shale and Red Rock	Gray		660	685	
Lime	Brown		685	690	
Shale and Red Rock	Gray		690	740	
Sandy Shale	Gray		740	1040	
Sand	Gray		1040	1125	
Shale	Gray		1125	1140	
	Gray		1140	1170	
Sand	Gray		1170	1238	
Shale Sand	Gray-White		1238	1356	
Shale	Gray-Black		1356	1368	
Sand	Gray-Black		1368	1385	
	Black-Gray		1385	1448	
Shale		1	1448	1560	
Sandy Shale & Red Ro			1560	1575	
Little Lime	Gray		1575	1590	
Shale	Gray	//			to complete as necessary;

(Attach separate sheets to complete as necessary,

ell Ope	rator	
-		-

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

FORM IN-35 (Reverse) [08-78]

Carnegie Natural Gas Company - Drilling Permit No. 47-049-0689 Page #2 - H. T. Lough Well No. 4-1847

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Fractured June 29, 1981.

Hole plugged back to: 5297'

Perforations:

4790 - 5216

15 holes

3893 - 3925 2991 - 3616

9 holes 14 holes

Fractured:

1st Stage

2nd Stage

20,000# 80-100 Sand 40,000# 20-40 Sand 600 Gal. HCL 15% Acid

604 Bbl. Water

20,000# 80-100 Sand 35,000# 20-40 Sand 500 Gal. HCL 15% Acid

466 Bbl. Water

80-100 Sand 40,000# 20-40 Sand 500 Gal. HCL 15% Acid

555 Bbl. Water

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
Big Lime	Gray		1590	1655	<u>.</u>
Sand	Brown		1655	1760	
Shale	Gray		1760	1820	
Sand	Gray-Bro	wn	1820	1860	
Shale	Gray		1860	2160	
Sand	Gray		2160	2380	
Shale	Gray		2380	2445	
Gordon Sand	Red		2445	2500	
Shale	Gray		2500	2535	
Sand	Gray		2535	2595	
Shale	Gray		2595	3017	The state of the s
Sand	Gray		3017	3060	
Shale	Gray		3060	3460	
Sand	Gray		3464	3680	2
Shale	Gray		3680	3900	20
Sand	Gray		3900	4005	
Shale	Gray	- 94	4005	4735	
Sand	Gray		4735	4960	
Shale	Gray		4960	5509	
Logged Total Depth				5510	
			7717 1 1 10/2		

(Attach separate sheets to complete as necessary)

Carnegie Natural Gas Company

Well Operator

Kenneth S. Dunay

Its Geologist

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. MAR-689	New drilling	locatio	n inspection		Oil or C	Gas Well	
Company Carnegie Nat	ural Gas Company		CASING AND	USED IN DRILLING	Left in Well	PACK	ERS
Address Munhall, Pen			Size		1		
Farm H.T.Lough			16			Kind of Pack	cer
6. W. I. S. I. Supplementary and South State Street Supplement South State Street State Street State Street			13				
Well No 4-1847			10			Size of	
District Lincoln	County_Marior	1	81/4				
Drilling commenced			6%		1	Depth set_	
Drilling commenced			5 3/16			-	
Drilling completed	Total depth		3		1	Perf. top	
Date shot	Depth of shot		2			Perf. botton	1
Initial open flow	/10ths Water in	Inch	Liners Used			Perf top	
Open flow after tubing						Perf. botton	n
VoluneRock pressure			CASING CEME			No. FT	Date
Oil	•		COAL WAS E	NCOUNTERE	D AT	FEET	INCHES
Fresh water	feet	feet	FEET	INC	HES	FEET	INCHES
Salt water	feet	feet	FEET	INC	HES	FEET	INCHES
Drillers' Names							(8)
	ion , Good pit,	Approve	d by this in	spector	10) 56	3 VUE	P. SEPARATE STATES OF THE PROPERTY OF THE PROP
Remarks:					MAY 2	9 1981	
Rigging up.							
Contractor,	S.W.Jack Rotary	Rig	-#12		OIL & G	AS DIVISION	

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

TO ENGINEERS OF PROBLEM AND STREET PROPERTY AND ASSOCIATION ASSOCIATION OF A PROPERTY ASSOCIATION AND ASSOCIATION	ornadiologicals. Notice Latitude and debuggers are seen to Participate on	ADDRESS	-A		The second section of the second sections
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ation	Amount		Location		
NO DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
WOOD-SIXE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
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hereby certify I	visited the pin	e well on this date.			
	ation ND DEPTH PLACED WOOD-SIZE	ation Amount ND DEPTH PLACED WOOD-SIZE LEAD	ation Amount Packer AD DEPTH PLACED BRIDGES WOOD-SIZE LEAD CONSTRUCTION-LUCATION	ADDRESS DISTRICTCOUNTY ation Amount Packer Location NO DEETH PLACED BRIDGES CASIN WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED	Amount Packer Location ND DEPTH PLACED BRIDGES CASING AND TUI WOOD-SIZE LEAD CONSTRUCTION-LOCATION RECOVERED SIZE A STATE OF THE PACKET OF



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

Permit No. 049-0689

DEPT. OF MINES

Company Carnegie Natural Gas Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACK	ERS
Address Munhall Pennsylvania	Size				
Farm H.T.Lough Heirs	16			Kind of Pac	ker
Well No. 4-1847	10	1		Size of	
District Lincoln County Marion		1637° C.1			
Drilling commenced		ement basks roved by th			
Drilling completedTotal depth_1630* Drilling to run 8* casing	3 W	0.0.86	rs	Perf. top	
Date shotDepth of shot		•			
Initial open flow/10ths Water inInch	Liners Used				
Open flow after tubing/10ths Merc. inInch	AND THE RESIDENCE OF THE PARTY	1			
VoluneCu. Ft.	CASING CEM			No. FT	Date
Rock pressurelbshrs.	NAME OF SE	RVICE COMP.	ANY		
Oilbbls., 1st 21 hrs.	COAL WAS E	NCOUNTERE	AT296-305	ifeet	INCHES
Fresh water wet-40 feet feet	FEE7	INC	HES	FEET	INCHES
Salt water feet feet	FEE?	rINC	HES	FEET	INCHES
Drillers' Names E. L. Mayfield, H. M. McVic	eker, M	.A.Ware			

Remarks:

Contractor, S.W.Jack rotary-rig #12

Cemented by Halliburton

Company rep. Jim Stephenson

May 30, 1981 - JAT

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Parmit Ma Well No					No	MERITS THE STREET WAS ARREST.
			ADDRESS			34.50
FARM		DISTRICT	C	OUNTY		
Filling Material Used						
Liner Loc		Amount	Packer	Location		
	ND DEPTH PLACED	201121100000	BRIDGES			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
*	The state of the s					
т на межения пределения по постанавления на невого и понерабления (Пред невой пред невой невой на почения в невой на почения на поч	Announce actions a reason to a resistant the second all the surveyer assemble to confirm the second of the desired	ngsconortedinggelest vings or eponopein on 14940 (busined a norted	and a first time (IIII) (IIII) All the state is the state of the state	1		
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Prillers' Names		i e v				
Atmets Mames	57.8 (III) 15.2 (C)			3		5 N N
Remarks:	-2					
				e e		
DATE	hereby certify I v	is thed the gate	well on this date.			

108/25/2023 CTC

DEPARTMENT OF MINES



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPTE: WE MINES

Permit No. 049-0689

Company Carnegie Natural Gas Company	CASING AND	DRILLING	Left in Well	PACKE	RS
Address Munhall Pennsylvania	Size				
Farm H.T.Lough.Et al	16			Kind of Pack	er
Well No. 4-1847	13	27'		Size of	
District Lincoln County Marion	81/4	1617*	C.T.S410		
Drilling commenced	6%	Basket &	2' 276'	Depth set	
71311118 COMMITTEE COMMITT	5 3/16		<u> </u>		
Drilling completedTotal depth 5510*	3_4_1//2	5297	cemented to	2500 kp	
Date shotDepth of shot	2			Perf. bottom.	
nitial open flow/10ths Water inInch	Liners Used	1		Peri top	
Open flow after tubing/10ths Merc. inInch		1		Perf. bottom	
VoluneCu. Ft.		ENTED	SIZE	No. FT	Date
lock pressurelbshrs.	NAME OF SE	RVICE COMI	PANY Dowe	11	
Dilbbls., 1st 21 hrs.		NCOUNTERE	D AT 296-305	FEET	_INCHES
Fresh water 40°-wet feet feet	FEE	INO	CHES	FEET	_INCHES
Salt water feet feet	FEE	IN(CHES	FEET	_INCHES
Drillers' Names E.L. Mayfield, H.M.	McVicker,	M.A.Wall			-
Remarks:					

Contractor, S.W.Jack-Rotary-rig-12

William J. Blosser #502

Billiam J. Blosser #502

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

MPANV		nggalan regica 2,000-a kalang digan elek 1,0000kg/magalan e-aliny dinambilan-k	ADDRESS			200
PM		DISTRICT		OUNTY	A SECTION OF PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PR	
ing Material Used						territoria solution di servata ancionario
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CEMENT-THICKHESS	MATERIAL EXILA COMMINIANA MATERIAL AND MATERIAL AND AN ARMADO AND AN ARMADO AND AN ARMADO AND AND ARMADO AND AND ARMADO A	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOS
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State of West Virginia

Department of Mines Gil and Gas Division Charleston 25305



OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
June 21, 1984

	June 21, 1984		
COMPANY	Carnegie Natural Gas Co.	PERMIT NO049-0689 (5/6/81)	
800 Re	gis Avenue	FARM & WELL NO Phillip Edwards #4-	1847
Pittsb	urgh, Pennsylvania 15236	DIST. & COUNTY <u>Lincoln/Marion</u>	
		IN COMPLIANCE	
RULE	DESCRIPTION	YES NO	
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Wa	ste	
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution	-	
23.07	Requirements for Production & Gatherin	g Pipelines \checkmark	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	<u></u>	
I HAVE I	NSPECTED THE ABOVE CAPTIONED WELL AND R	ECOMMEND THAT IT BE RELEASED:	
		SIGNED Dan & Elli	
		DATE 8-21-84	
with Cha	l record was received and reclamation repter 22, Article 4, Section 2, the above for the life of the well.		
		111/1	
		11110	
		Administrator-Oil & Gas Division	
T	MS/chm	September 13, 1984	
		DATE	