



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



OIL & GAS DIVISION DEPT. OF MINES

Oil and Gas Division WELL RECORD

	WELL	RECORD		Rotary	Oil
- Managara				CableX_	Gas_X
Quadrangle Morgantown				Recycling_	
Permit No. MON-213-D-Frac				Water Floo	d Storage
				Disposal	(Kind)
Variable of Co.		,	 		
Company Keystone Gas Company	DA 1	Casing and	Used in	Left	Cement fill up
Addres Mellon Bank Bldg., Canonsbu	rg, PA 1	5317 Tubing	Drilling	in Well	Cu. ft. (Sks.)
Farm Monongahela Power Acc	es		ļ		
Location (waters) Monongahela River	, 809¹	Size			
Well No. 20 Ele	v. <u> </u>	20-16			
District County		Cond.	 		
The surface of tract is owned in fee by		13-10"	-		
Monongahela Power Company		9 5/8			
Address 1310 Fairmont, WV 26550	1.	8 5/8			
Mineral rights are owned by Mertie Ster	ling	7	942	942	
AddressUniontown, PA		5 1/2			
Drilling Commenced Feb. 8, 1955		4 1/2			
Drilling Completed March 8, 1955		3	2018	2018	65 sks.
Initial open flow 17M cu. ft.		2			
Final production 125M cu. ft. per day	bbls.	Liners Used			
Well openhrs. before test	315 RP.				
Well treatment details:		Attach copy of a	cementing red	ord.	
Frac open hole 2018-35' with	16000 ga1	. W. 18000# san	id. T.R. 2	и врм т	P 2800
I.S.I. 1700		y	2,11,12	A Diff, I.	1. 2000,
				-	
				· · · · · · · · · · · · · · · · · · ·	
Coal was encountered at245 (Freepon	rt) F	eet	Inch	AC.	
1		Salt V			Faat
Producing Sand Fifth		Deptl			_ 1 CCt
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	or Water	* Remarks
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	-
See record for MON-213-D					
TD 5th					
·					
					, v
		1			



DEPARTMENT OF MINES OIL AND GAS DIVISION

Permit N

From

To.

Date Shot____

WELL RECORD

Gas

Perf. top 1996

Oil or Gas Well.

Company Keystone Gas Company Left in Well Casing and Tubing Used in Drilling Packers Address Canonsoure Farm E.C. Arlowright Size Location (waters) Crooked Run Kind of Packer. 16.. 809 Well No.__ District Cass Anchor 18. County Monongalia Size of 65/8 The surface of tract is owned in fee by E.C. Arkwright Morganyown, W. Va. Address. 81/4_ Mineral rights are owned by livrtie Sterling Depth set 1622 942 942 6%. Mayflower Drive Address Uniontown, Pa. 5 3/16. 2105 Perf. top 2084 Drilling commenced Feb. 8, 1955 Drilling completed March 8,1955 Perf. bottom 2105

Perf. bottom 2017 With Open Flow 28 /10ths Water in. 56M _Inch /10ths Merc. in___ CASING CEMENTED. Inch

Liners Used.

Volume_ 41,473 .Cu. Ft. 24 _lbs. Rock Pressure_ hrs.

COAL WAS ENCOUNTERED AT_ FEET. INCHE Oil_ bbls., 1st 24 hrs. INCHES THEFT INCHE

Fresh water		feetfeetfeet		FEET INCHES FEET INCHES FEET			
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand Lime Band	gray l gray d gray	hard "	1058 1166 1221	1166 1221 1336			
Lime shells and slate Lime	gray	medium	1336 1415	1415			
Lime shells and slate Gritty lime Sand Lime shells	d gray	extra hard hard	1445 1486 1495	1486 1495 1505			
and slate Sand	11 11	medium hard	1505 1575	1575 1578			
Slate & sand shalls Sand	dark	medium hard	1578 1591	1591 1684		0000	
Slate and lime shells Slate Gritty lime Slate	light	medium soft hard soft	1684 1704 1 72 0 1741	1704 1720 1741 1760	3/4/6	APR 1955 RECEIVED WEST VIRGINIA PET. OF MINES	(C. 02.01.28.29.7)
Red rock & sand shells Send	red gray	medium hard	1760 1791	1791 1803	2401112	PEST VIRGINIA	18.79.75 18.70.75 18.
Slate, lime &r č rock Gritty lime Red rock	red	nedium herd	1803 1929	1929 1940		\$<354E57	
sand shells Gritty line	red	medium	1940	2002			
& sand slel Lime shells Lend	is gray.	hard n	2002 + _2009 2020	2009 2020 2046	Gas	202 2 2025	5.1
Red rock <u>Sand</u> Slate	red Siey 1 sies 7	soft hard ;cft	2046 2054 - 2090	2054 2003 2105 1058	Netel Capt		
				(10, 7) 10	136.44		

10---

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE July 15, 1977
Surface Orman Monongahela Power Co.	DRIE
1310 - Fairmont, W.Va. 26550	Company Keystone Gas Company
Address Same	Address Mellon Nat'l Bank, Canonsburg, Pa. Farm Monongahela Power Acres 20
Address	
Christopher Coal Co	Location (waters) Well No. 20 Floration 809
% Consolidation Coal	Cacc
Address 924 North Washington Road	Ounty
Coal Operator McMurray, Pennsylvania 15317	Quadrangle Morgantown
HIS PERMIT MUST BE POSTED AT THE WELL SITE	
Ill provisions being in opportunce with Chapter 2?	
time vv. va Code, the location is hereby approved	INSPECTOR
fracturing This permit shall expire it	TO BE NOTIFIED William Blosser
perations have not commenced by 12-17-77	ADDRESS P.O. Box 1028, Colfax, W.Va. 26566
Misuthoria	262 0105 /Enimont)
Deputy Eurector - Oil & Gos Division	PHONE 363-9105 (Fairmont)
GENTLEMEN:	
title therete (or as the second to the upon	the above named farm or tract of land for oil and gas, having fee
Henry Millon Monton V Vocabio	se dated Dec. 31 1921 by Myrtie M. Ste
32 Monongalia 25	and recorded on the 25th. day of Novembe
19 32 in Monongalia County, Book 25	6 Page 426
NEW WELLDRILL DEEPER	2424
OIL AND GAS WELL ORIGINALLY DRIL	
	er or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by,	eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed that 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.
DI BACE CIMMEN CODING OF ATT	Very truly yours,
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Charles E. Campbell
GOOTHISTONE LOGS DIRECTLY TO:	Well Operator
WEST VIRGINIA GEOLOGICAL AND	Keystone Gas Co., Div. of Crescent H
	dress Street Coal Compa
1. 0. Box 0/9	of Operator Mellon Bank Building
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	City or Town
272 0331	Canonsburg, Pennsylvania 15317
	State
notice and pair by the department of mines, to said proposed locati	the Department of mines, within said period of ten days from the receipt of ion, the department shall forthwith issue to the well operator a permit reciting all operators or found thereto by the department and that the same is approved
BLANKET DOM	MON-213-D-FRAC.
	PERMIT NUMBER
"I have read and understand the reclamation requirements as s	

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

PROPOSED WORK ORDER TO) bitt	DESCRIPT XXXX	DIV A CONTROL CONTROL CONTROL		
DRILLING CONTRACTOR: (I	f Known)	RESPONSIBLE AG			
NAME Keystone Gas Company					
ADDRESS Canonsburg,	Pa.	ADDRESS N. Front St. Wheeling, W.Va.			
TELEPHONE 412-745-41	30	TELEPHONE	232-8336		
ESTIMATED DEPTH OF COMP	LETED WELL: 2105'		CABLE TOOLS XXX		
PROPOSED GEOLOGICAL FOR	MATION: Fifth Sand	10020			
TYPE OF WELL: OIL	GAS XXX CC	OMB. STOR	AGE DISPOSAL		
			FLOOD OTHER		
TIPLE A DIVINI					
TENTATIVE CASING PROGRA	M :				
CASING AND TUBING	USFD FOR	LIST IN	CHAINE LINE		
SIZT	DRILLING	WFLL	CEMENT FIFE UP OR SACKS - CUBIC FT.		
20 - 16					
0 5/9	The state of the s				
8 - 5/8	mentioned the second of the se				
7	942'	942'			
The street contract of the street of the str		1			
3 2	00001				
2	2020.	2020'	አኢዚአኢኒኒ 50 sacks		
Liners	Security (Miles Security - 1) (Miles of the Security Secu				
	The second secon		Perf. Top Perf. Bottom		
	E-regional and the second of t				
APPROXIMATE FRESH WATER	DEPTHS FEET	SALT WATI	ERFEET		
APPROXIMATE COAL DEPTHS	rreeport - 245				
IS COAL BEING MINED IN TH	E AREA? NO	BY WHOM?			
FO DRILL:					
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG + 1, \$100.00 PERMIT	FEE, PERFORMANCE	BOND AND PERMANENT COPY		
O DRILL DEEPER OR REDRIL	L:				
SUBMIT FIVE (5) COPIES (WELLS DRILLED PRIOR T	OF OG - 1, SHOWING ORIGIN O 1929, A PERMANENT COI	AL PERMIT NUMBER PY OF THE PLAT AN	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD		
De Bohmilie	D.				
O FRACTURE - STIMULATE:					
TALL TOTAL	AND ORIGINAL WELL RECO	RD.	5) COPIES OCI - 1, PERFORMANCE		
OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	RIGINALLA DRILLED ON ANE MBER, AND PERFORMANCE B	D/OR AFTER JUNE 5, 1 SOND.	1929, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of con	mpletion for bond releas	se. Inspector to be notified twenty-		
The second secon					
V.					
The following waiver must bareof.	e completed by the coal operat	tor if the permit is to b	be issued within ten days of receipt		
AIVER: I the undersigned Agen this lease have examine	d and place on our mine maps	Coal Company, Own	ner or Operator of the coal under		
			cation. well being drilled at this location,		
providing operator has co Code.	omplied with all rules and regula	tions in Articles 4, 5, an	well being drilled at this location, d 7, Chapter 22 of the West Virginia		
		V	For Coal Company		
			Official Title		