





OL & GASERATOR



# STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division

#### WELL RECORD

Quadrangle_ Guyandot		RECORD /		Rotary Cable X Recycling	Gas_X \			
Permit No. Cab-541				Water Floo Disposal	dStorage(Kind)			
Company Cumberland Gas Company		Casing and	Used in	1 - 6	C			
Address P.O. Box 2386, Charleston		328 Tubing		Left	Cement fill up			
Farm Acre Land Company Ac	res_314.3	i donig	Drilling	in Well	Cu. ft. (Sks.)			
Location (waters) Guyandotte River	На приняти	Size						
Well No. MC-46 Ele	v. 756°	20-16						
District Guyandotte County Cal	ell	Cond. 14" C.D.	, 19"	191				
The surface of tract is owned in fee by	the state of the s	13-10" 10-3/4	158*	None				
		9 5/8	PATRICIA DE MANAGEMENTO PROPERTO DE PARAMENTO DE PARAMENT					
Address		8 5/8	4531	453"	llO Cu. Ft.			
Mineral rights are owned by P. C. T. Con	ipany	7	1572	15721				
Mineral rights are owned by P. C. T. Con Address Maple Dr., Hunt	ington, W.	¥a*/2	M. A. San					
Drilling Commenced Aug. 10, 1972	for the control of th	4 1/2	ik vario maalingon geraan arenan aangaan hiikikka karingkoni. mijadisha					
Drilling Completed Sept. 23, 1972	Markey - March Mark Frag. Margari Anadari - Africa dela assessa	3	Advision had had recommended in the company of the					
	7	2	op wo was the fact about the same of the same beautiful to the same of	1 .				
Initial open flow 29 Men file 15 min. after shot 6-696 M cu.ff	BUIS.	Liners Used	Modelli selaminingan programma (m. 11.41 – melos les		•			
Final production shot 381 M cu. 10 Well open Resident to the control open	oni na		my bland a strenger to super-brassins subjective (idea), which is be reference a l					
Well treatment details: Shot (2700' - 2950) with 20	000# Gel	Attach copy of co	ementing rec	ord.				
Coal was encountered at	Fast	ne en e			-			
				Salt Water 750° Feet				
	Depth Feet							
	der schause (1900) und er verhalbet ist einspersonen der beite die bij er verhalbete in verschausse (1900) der Verhalbet in Licht bei geben der verschelten (1908) die het Control bewert met den bestigen der gegeben der pu		and in which provides the state of the state	et aglet e est tilberere en er freger tilber e en er				
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	r Water	* Remarks			
Soil	con especial energy energy energy energy energy energy en andere en en energy en	20	eliteli (den ); ul'antain en amente e sen, l'Eminembilian l'antaine desti.	CCT (All Millions of Characters and Characters of Characters (CCT) and the Characters (CCT) and				
Sand	20	40						
Slate	40	60						
Red Rock	60	80						
Slate	80	135			*			
Red Rock	135	145						
Slate	145	220						
Red Rock	220	225	*					

i Olimatios;	COM 1121	id of 2011	l op reet	bottom Feet	Oil, Gas or Water * Remarks
Soil		en e	O	promise in the contract contra	Authorities of the Contract of
Sand			20	40	
Slate			40	60	
Red Rock			60	80	
Slate		-	80	135	
Red Rock			1.35	145	
Slate		1	145	220	
Red Rock			220	225	
Slate		in the state of th	225	280	
Sand		- III Coloren	280	365	
Slate		a and a second	365	385	Water 385° - 1 Bailer per hr.
Sand		1	385	523	, , , , , , , , , , , , , , , , , , , ,
Slate			523	541	
Sand			541	565	Water 550' - 1 Bailer per hr.
Slate			565	625	1
Sand			625	657	
Slate		1	657	888	Hole full water 750'
Sand			888	912	
Slate		- Aller	912	1076	
Salt Sand			1076	1120	
Slate			1120	1150	
Lime			1150	1162	
Slate			1162	1226	
			Name - 20 Strane i metudosta i alkaj kutival kalkala i konstruita kalkala i konstruita kalkala i konstruita ka	menten fantago (17.500 negativo de consciono de consciono de consciono de consciono de consciono de consciono	ANGERHARTE AND ROMANIES OF THE ANGERSTANDERS OF THE ANGERS AND THE ANGES AND T

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet !	Bottom Feet	Oil, Gas or Water * Remarks
Big Lime Feener Sa Injun San Squaw San Slate Lime Shel Slate San Slate Lime Shel Slate Brown Sha Slate	d d l hells le d le le	onoindaga	1226 1356 1375 1450 1553 1562 1603 1995 2025 2038 2050 2062 2075 2152 2504 2564 2638 2740 2763 2857 2869 2973 3187 3226	1356 1375 1450 1553 1562 1603 1995 2025 2038 2050 2062 2075 2152 2504 2564 2638 2740 2763 2857 2869 2973 3187 3226	Show Gas 2708' Show Gas 2857'
	D.			3418*	

Date October 30 , 1972

APPROVED CUMBERLAND GAS COMPANY, Owner

By (Tirle) Gen. Supt.





OIL & GAS DIVISION DEFT. OF MINES

#### Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE
Surface Owner	CompanyC
Address	Address * * Charleston,
Mineral Owner	Farm Acre Land Company Acres -400 314.3
Address	Location (waters) Guyandotte River
Coal Owner	Well No. 4 Elevation
Address	District County
Coal Operator	Quadrangle
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 approve for drilling . This permit shall expire i	d
operations have not commenced by November 7, 197	
Deputy Director - Oil & Gas Division	
GENTLEMEN:	
The undersigned well operator is entitled to drill upon the a	shave named farm or tract of land for oil and goe having for
title thereto, (or as the case may be) under grant or lease dat	
made to	and recorded on the day of
19, in County, Book	Page
NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required d with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by reor coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Depart	daybefore, or on the
Ve	ery truly yours,
(S	ign Name)
	Well Operator
Address	Street
of Well Operato	or Charles Char
	City or Town
	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.

CAB-541 PERMIT NUMBER

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

PROPOSED WORK ORDER T	ODRILL	DEEPEN FR	ACTURE-STIMULATE			
DRILLING CONTRACTOR: (		RESPONSIBLE AGENT:	**************************************			
	- Cumberland Gas Co					
and a second and all all	86. Charleston, 7.7					
TELEPHONE						
	PLETED WELL:	ROTARY	CABLE TOOLS			
PROPOSED GEOLOGICAL FO			D. C.			
TYPE OF WELL: OII	GAS CC					
•	RECYCLIN	IG WATER FLOO	ODOTHER			
TENTATIVE CASING PROGR.	Δ M ·					
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP OR SACKS - CUBIC FT.			
SIZE	DRILLING	WELL	OK SACKS - COBIC 11.			
20 - 16 13 - 10		Tone				
9 - 5/8		Approximately 1				
8 - 5/8	422	4,70,5	78 Sacks			
7		3.500				
5 ½						
4 ½			n c m			
2			Perf. Top Perf. Bottom			
Liners			Perf. Top			
			Perf. Bottom			
APPROXIMATE FRESH WATI	er depthsfeet_	SALT WATER	FEET			
APPROXIMATE COAL DEPTH		i a filosofies				
IS COAL BEING MINED IN	ΓHE AREA?	BY WHOM?				
TO DRILL:						
	ES OF OG - 1, \$100.00 PERMI	T FEE, PERFORMANCE BO	OND AND PERMANENT COPY			
OF PLAT.		<b>,</b>				
TO DRILL DEEPER OR REDI	RILL:	*				
SUBMIT FIVE (5) COPIE	S OF OG - 1, SHOWING ORIGI	NAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON			
	R TO 1929, A PERMANENT CO	OPY OF THE PLAT AND T	HE ORIGINAL WELL RECORD			
MUST ALSO BE SUBMIT	TED.					
TO FRACTURE - STIMULATE	<b>:</b> :					
	ORIGINALLY DRILLED BEFOR		COPIES OG - 1, PERFORMANCE			
	AT AND ORIGINAL WELL REC		2			
	ORIGINALLY DRILLED ON AN NUMBER, AND PERFORMANCE		9, FIVE COPIES OG - 1, SHOW-			
			T4 . 1			
Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.						
A STATE OF THE STA						
The following waiver mu thereof.	st be completed by the coal ope	erator if the permit is to be i	ssued within ten days of receipt			
	Arout for	Cool Company Owner	or Operator of the seel under			
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.						
		T.	or Coal Company			
		. re	or company			

Official Title