



OIL & GAS DIVIROTARY
STATE OF WEST VIRGINIA DEPT. DE MADULEE

DEPARTMENT OF MINES

OIL AND GAS DIVISION

Cable Tools Storage

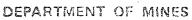
Quadrangle Williamson, KY-WY.

WELL REGORD

Permit No. Minu	S		West Country Design	RECORD		Oil or G	as Well Gas
Company Column P. O.	. Box 1273	, Charleston	, W. Va.	Casing and Tubing	Used in Drilling	Let to	Packers
Farm W. H. I	Bronson	· තමාරා එක එක වන වනවාර කතාව එම මතර උතුමුමේ මෙද කියල කුරු	Acres 800	Size	-	And the second s	manustanda militarti sidalah darupat 🧼 yak mekit militarti camanda s impi nikanyok sikkensulun melan melan milita
Location (waters) .	Dan Bran	ch of Tug Ri	ver		86,80	86.80	Kind of Packer
Well No. 20568				1 1 man an a na amanana an ana an an	The state of the s		i sốn to thin thiết the P số thiệt thiết the M th Thật thiết giá nh thiệt thiết thiệt quantity and thiệt thiết the M
District Tug Riv	ver	County Mi	ago	30.11.3/4	209.73	20973	Size of
The surface of trac-		ee by R. Jud	e and	8M_5/8_	2366.72	2366.72	e de partir de la compansión de la compa
J. C. Lamber	rt.	\ddress	r drag sik in did get ar sig ik dirija magayay sangi programpi ulasik sibuk di Al gibbanin ju ar sig	646 - no no construe garage and a	to and the state of the state o		Depth set
Mineral rights are					and the standard and restrict the standard standard through the standard as the standard standard through the standard t		The state of the first than the state of the
		Nddress Willian	Kon. WV	4V3-000-00000000000000000000000000000000	4432.66	4432.66	en namen en general et en Portugio entre mais deschiedigiospenia en discolari della de la 1 et al 11 e <mark>gentato</mark> ri el 12.
Diffling commence	dMarch	16, 1979	·ලිඅස්ටම් එකිනීම හි ලබා ඒ ය දිවැකුකුකුලේ කමනුවුණුණු වංග අය අය ඇත	The statement was to a set in proposition to the		*********	Perf. top 3750)
Drilling completed	March		·····································		4418!	4418	Perf. bottom 44373
Date Shot	From	· convenentationing topopologo	• •	Liners Used	and the state of t		Perf. top 3156)
With	***********	වාමරාග මා දර වූ මාත කම ම ම ව ව ව ක වාර කණුල වුණු වැඩුමු සු අනුවුම් ය.	医克雷克氏试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检			g.	Perf. bottom 3195
			,	AND PARTY OF THE P	sementing record	Control of the Contro	
					ENTED 8 5/	8s17s 2367 s	No. Ft.3/26/79 D:
Volume							ft. & 100 sks
Rock Pressure	· · · · · · · · · · · · · · · · · · ·		\$ 500		e Co. Dow	011	etra alitera (alla esta esta esta esta esta de la desta esta de la desta esta esta esta esta esta esta esta
Oil							FEET 48 INCHI
WELL ACIDIZED							FEET INCHI
	and the same and case are all till are all the dependency and any regions upon the same and all the	er men. Or de de en er		war	in ariv	CFFC	2
WELL FRACTUR	ED (DETAIL	S)	attached she	et"	er de marie en descrice de mariente de marie que en desta de Marien. O descricação destante de mariente de desta de se un se se un marie en companyo en		reelINON
RESULT AFTER T	TREATMENT	(Initial open Flow	or bbls.) (27	0 mcf	化环丙烯酚 萨 神经 计分析 经现代证明 经收益 经 微电 無 無 经 化 经自己的 化二烷酸 化二烷酸		
KUUK PRESSURE	AFTER TRI	SATMENT 330) <i>†</i> }	Unitipe	48 hr	Q.	
Fresh Water	· · · · offinglika o o kana o			Salt Water		Tract	· · · · · · · · · · · · · · · · · · ·
Producing Sand	// Shale	& Berea	16-18-4-18-18-18-18-18-18-18-18-18-18-18-18-18-		Depth 3108	- 3200;	3750 - 4437
Formation	Color	Hard or Soft	Top	Ro44000	Oll, Gas or Water	Depth	Remarks
Sand Shale Sand Sand & Shal			0 77 82 273	77 82 273 633	Water	90 8	Lost Air 1

ROCK PRESSURE AFTER TREATMENT 330# HOURS Fresh Water Feet Salt Water Producing Sand Shale & Berea				48 hrs. Feet Depth 3108 - 3200; 3750 - 4437			
Formation	Color	Hard or Soft	Top	Bottom	Oll, Gas or Water	Depth	Remarks
Sand Shale Sand Sand & Sha Coal Sand & Sha lst Salt S Sand & Sha 2nd Salt S Sand & Sha Maxon Sand & Sha Little Lim Big Lime Keener Injun Shale Weir Shale Coffee Shal Berea Brown Shale Grey Shale Brown Shale White Slate White Slate	le and le and le le e cleveland le e e e e e e e e e e e e e e e e e e	And a few department of the few department o	0 77 82 273 633 637 1204 1511 1619 2064 2156 2266 2390 2523 2564 2590 2655 2761 3100 3113 3186 3245 3823 4114 4366	77 82 273 633 637 1204 1511 1619 2064 2104 2156 2266 2390 2523 2564 2590 2655 2761 3100 3113 3186 3245 3823 4114 4366 4478	Water Gas show Ononder	4478 4114 364	Lost Air 1







Oil and Gas Division

OIL & GAS DIVISION DEFT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES.	·					
Charleston, W. Vr.	DAT	re August 17, 1978				
Surface Owner R. Jude & J. C. Lember	t Corr	Company Columbia Gas Transmission Corp.				
		P. O. Box 1273, Ch.				
Mineral Owner Lois M. Bronson, Agent		w. H. Bronson et. al				
Address Box 988, Williamson, W. Va. 2		etion (waters) Dan Br. of To				
Coal Owner Same as above	Walt	м. 20568	Flouria 1325, 72			
Address	Dist	rice Tug River Lee	County Mingo			
Lessee Coal ØFAXXXX Naugatuck Development Co						
Address Lovely, Kentucky	· ·	·				
THIS PERMIT MUST BE POSTED AT THE V	VELL SITE	,				
All provisions being in accordance with Cho of the W. Va. Code, the location is hereby		rok				
for <u>drilling</u> . This permit shall	expire if TO BE	NOTIFIED Arthur St.Cla	ir			
operations for commerced by 1-5-7						
Notet & Sell	nation of	732-6227				
Deputy Director - Oil & Gas Division	ERCHE	, , , , , , , , , , , , , , , , , , , ,				
GENTLEMEN:						
The undersigned well operator is entitled to dr	ill upon the above	named farm or tract of land for	r oil and gen beging for			
title thereto, (or as the case may be) under grant	or lease dated	October 21, 19 75	by W. H.			
Bronson made to Columbia Gas	E 2	and recorded on the	day of			
19 in Mingo County, Book _		· ·				
X NEW WELL DRILL DE	EPER	REDRILL FRACTI	URE OR STIMULATE			
OIL AND GAS WELL ORIGINALLY	/ DRILLED BEFO	RE JUNE 5, 1969.				
The enclosed plat was prepared by a registered have been notified as of the above date.	engineer or licens	ed land surveyor and all coal of	owners and/or operators			
The above named coal owners and/or operator to make by Section 3 of the Code, must be received	are hereby notified ed by, or filed wit	that any objection they wish the Department of Mines with	o make, or are required in ten (10) days. *			
Copies of this notice and the enclosed plat were or coal owners at their above shown respective assume day with the mailing or delivery of this copy	idrem	day	before or on the			
		uly Keure.	•			
PLEASE SUBMIT COPIES OF ALL		211				
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign N	(ame) OMAN Well Operator	<u> </u>			
WEST VIRGINIA GEOLOGICAL AND		Director, Explorati	on & Development			
ECONOMIC SURVEY	Address	P. 0. Box 1273 Street				
P. O. BOX 879	of					
MORGANTOWN, WEST VIRGINIA 26505	Well Operator	Charleston City or Town				
AC-304 - 292-6331		•	.			
· · · · · · · · · · · · · · · · · · ·		West Virginia 2532	5			
		State				

*SICTION 3.... It no objections are filed or found by the Department of mines, within old period of ien days from the receipt of a 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 plut, that no objections have been made by the coal operators of found thereto by the department and that the same is approved and the well operator authorized to proceed.

PERMIT NUMBER

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

PROPOSED WORK ORDER TO	X DRILL	DEEPENF	RACTURE-STIMULATE		
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:			
NAME		NAME Joe Campbell			
ADDRESS			ADDRESS P. O. Box 2946, Hunt., W. Va.		
TELEPHONE		TELEPHONE 529-4173			
ESTIMATED DEPTH OF COMPL	ETED WELL: 4472'	ROTARY X			
PROPOSED GEOLOGICAL FORM	MATION: Berea-Shale		(1000)		
TYPE OF WELL: OIL_	GAS <u>X</u>	COMB. STORAGE	Medricki		
		INC WATER FLO			
TENTATIVE CASING PROGRAM			OTTER		
SIZI.	USED FOR DRILLING	LEFT IN WELL	OR SACKS - CUBIC LI		
20 - 16		TO E ANGELS AND THE PROPERTY AND	ON SACKS - CUBIC II		
13 - XX 3/8	30'		Cement to Surface		
9 - 5/8		n vermally of make review (from respectables), dates, with more of promotion displacement of the first of the balance of the control of the second of the control of the co	onione co sur race		
8 - 5/8	1950'		Cement to Surface		
51,					
11:	I I made				
3	44721	The state of the s			
3/8	44721		Perf. Top Perf. Bottom'		
Liners			Peri Loo		
APPROXIMATE FRESH WATER		A Company of the particular form of the Company of			
SUBMIT FIVE (5) COPIES (OF PLAT. TO DRILL DEEPER OR REDRILL		IT FEE, PERFORMANCE BO	ND AND PERMANENT COPY		
SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	J 1343, A PERMANENT (INAC PERMIT NUMBER AND OPY OF THE PLAT AND TH	PERFORMANCE BOND ON HE ORIGINAL WELL RECORD		
O FRACTURE - STIMULATE:					
	MED OFFIGHAT AFTE HE	CORD.	OPIES OG - 1, PERFORMANCI		
OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM	DENTALD LEITORMANCE	BUND,			
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond release. I	nspector to be notified twenty		
The second of th	The second secon				
		The second secon			
The following waiver must be	completed by the coal ope	erator if the permit is to be in-	ued within ten days of receipt		
	and place on our mine m	aps this proposed well location	٦.		
We the	Coal Company	have no objections to said well	being drilled at this location,		
providing operator has con Code.	mplied with all rules and regi	dations in Articles 4, 5, and 7,	Chapter 22 of the West Virginia		
		lease of	Coal Company		
		1016	Court Charipping		
		i company	Official Title		

1-1-1-1-1