

Oil and Gas Division

WELL RECORD

Quadrangle Charleston-East

Permit No. 47-039-3638

では大きなは、日本のでは、日本の

Company Columbia Cas Trans. Corp. Address P.O. Box 610 Clondenin, WV Farm Georges Ck. Land & Mining Acres 640	Casing and Tubing	Used in Drilling	Left in Well.	Cement fill up Cu. ft. (Sks.)
Location (waters) <u>Ceorges Creek</u> Well No. 20520 <u>Elev 132662</u> District Malden County Kanawha	Size 20-16 · 20" Could	20°	20"	10 sks.
The surface of tract is owned in fee by	13483/8	6841	684'	520 sks.Class-A
Secondo Dalporto	9 5/8	2370'	2370	600 sks.50/50po
Address	8 5/8		1	150 sks.Class-A
Mineral rights are owned by <u>Georges Creek Land</u> <u>& Hining Address</u> Guilford, Conn.	7 5 1/2	5265'	3106' /	100 sks.Posmíx 100 sks.Class-A
Drilling Commenced 9-27-80	4 1/2	6720'	(6720')	155 sks.Class-A
Drilling Completed 10-20-80	3			133 0.3.01023 7
Initial open flow cu. ft bbls.	2	1		į
Final production 2860 M cu. It per day 0 bbls.	Liners Used			No. of the state o
Well open hrs. before test RP.				
Well treatment details:	Attach copy of a	tementing reco	ord.	

Matrix Acid consisting of 500 gals. 15% HCl, 2000 gals. 15% HF acid.

 Coal was encountered at 10-18;502-589;632-644
 Feet
 Inches

 Fresh water
 Sand
 Feet
 200
 Salt Water
 Salt Sand
 Feet
 1050

 Producing Sand
 Clinton
 Depth
 6613 - 6687

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Cas or Water Remarks
Sand	0	40	
Coal	10	18	
Sand	18	5H2 >	
Coal	582	589	
Shale	580	6 12	
Coal	6 3 2	614	
Shale	644	955	
Salt Sand	955	1141	W.1 t a 8
Shale	1141	1184	
Salt Sand	1184	1514	
Shale	1534	1585	
Red Kock	1585	1589	•
Shale	1589	10.1	
Maxon Sand	1621	1676	
little lire	14, //.	1/22	
big Line	4722	19.4	
Injun Sand	1920	141.	
Shale	1955	9112	•
Onundaga .	5112	5210	
Orinkany	5210	5237	
Line	8237	6.209	
Roschill	6704	6013	
Clinton	6613	6687	CAN RUSHZ

(UTEI

Hoo Frac: 760 BBLS Total Fluid.

CHANCELLE CALLES CALLES

[&]quot; Industry Electric Log tops in the remarks section

JUN 3 0 1980

Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

	TO THE DEPARTMENT OF MINES, Charleston, W. Vs.	DATE	June 12, 1980	
	,		7, 200	ansmission Coup
	Surface Owner Secondo Dalporto-Tony Genti	_	y Columbia Gas Tr	
	Address P.O. Box 149, Montgomery, WV 251			arleston, WV 25325
	Mineral Owner Georges Creek Land & Mining		eorges Crk.Land &	
	Address C/o J.R.Shrewsbury P.O.Box 217		(waters) Georges Cr	
	Coal Owner Guilford, Connecticut 06437	Well No		Elevation 1326.62
	Address Same as Mineral Owner	District	Malden	<u>County Kanawha</u>
	Coal Operator Unoperated	Quadran	gle Charleston Eas	t
pro	Address ANT MUST BE POSTED AT THE WELL SITE	CHECKRONINA ANNO CHICADO		
	chapter 22,			
bio,	V. Va. Code, the location is hereby approved	INSPECTOR		
a	rilling. This permit shall expire in	TO BE NOT	IFIED Martin Nich	ols
ralio	ns have not commenced by 3-2-81		P. 0. Box 554, Cle	
-4	uty Director - Oil & Gas Division	PHONE	548-6993	
Dep	GENTLEMEN:			
	The undersigned well operator is entitled to drill u	non the above nam	and farm or tract of land	for ail and one kewing fa
	title thereto, (or as the case may be) under grant or Creek Land Co. made to	lease dated Mar	ch 13 19 2	6 by Georges
	19 in Kanawha County, Book	50	120	cay of
		•		
	X NEW WELLDRILL DEEPE:	RR	EDRILLFRAC	TURE OR STIMULATE
	QIL AND GAS WELL ORIGINALLY DE		•	
	The enclosed plat was prepared by a registered eng	RILLED BEFORE	JUNE 5, 1969.	
	The enclosed plat was prepared by a registered eng	RILLED BEFORE gineer or licensed hereby notified the	JUNE 5, 1969. land surveyor and all cost at any objection they wish	d owners and/or operators to make, or are required
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were may or coal owners at their above shown respective address	RILLED BEFORE gineer or licensed the hereby notified the highest or filed with the hiled by registered as	JUNE 5, 1969. land surveyor and all cost any objection they wish the Department of Mines with the mail, or delivered to the and day	n to make, or are required within ten (10) days. * bove named coal operators before, or on the
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were ma	RILLED BEFORE gineer or licensed the hereby notified the highest or filed with the hiled by registered as	JUNE 5, 1969. land surveyor and all cost any objection they wish the Department of Mines with the mail, or delivered to the and day	n to make, or are required within ten (10) days. * bove named coal operators before, or on the
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed the hereby notified the highest or filed with the hiled by registered as	JUNE 5, 1969. land surveyor and all costs at any objection they wish the Department of Mines with mail, or delivered to the a day f Mines at Charleston, West	of to make, or are required within ten (10) days. * bove named coal operators before, or on the
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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.	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the filed by registered the Department o	JUNE 5, 1969. land surveyor and all costs at any objection they wish the Department of Mines with mail, or delivered to the a day Mines at Charleston, Western Mines at Charleston,	n to make, or are required rithin ten (10) days. the bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the diled by registered the Department of Very truly	JUNE 5, 1969. land surveyor and all cost any objection they wish the Department of Mines with mail, or delivered to the a day Mines at Charleston, Westyours,	to make, or are required rithin ten (10) days. * bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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.	rilled BEFORE gineer or licensed hereby notified the notified with the diled by registered the Department of Very truly (Sign Name)	JUNE 5, 1969. land surveyor and all costs at any objection they wish the Department of Mines with mail, or delivered to the a day Mines at Charleston, Western Mines at Charleston,	to make, or are required rithin ten (10) days. before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the ny, or filed with the diled by registered the Department o Very truly (Sign Name) Address	JUNE 5, 1969. land surveyor and all cost any objection they wish the Department of Mines with mail, or delivered to the aday of Mines at Charleston, West Operators, well Operators of Ope	to make, or are required rithin ten (10) days. before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	rilled BEFORE gineer or licensed hereby notified the notified with the diled by registered the Department of Very truly (Sign Name)	JUNE 5, 1969. land surveyor and all cost at any objection they wish the Department of Mines with mail, or delivered to the a day Mines at Charleston, West Operators, West Office Box	to make, or are required rithin ten (10) days. before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the liled by registered the Department o Very truly (Sign Nam Address of	land surveyor and all costs at any objection they wish the Department of Mines with mail, or delivered to the aday of Mines at Charleston, West Operators of Mines at Charleston of Min	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the liled by registered the Department o Very truly (Sign Nam Address of	JUNE 5, 1969. land surveyor and all cost any objection they wish the Department of Mines with mail, or delivered to the angle of Mines at Charleston, West Operators Post Office Box Street Charleston	to make, or are required within ten (10) days. * bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the liled by registered the Department o Very truly (Sign Nam Address of	land surveyor and all costs at any objection they wish the Department of Mines with mail, or delivered to the aday of Mines at Charleston, West Operators of Mines at Charleston of Min	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	RILLED BEFORE gineer or licensed hereby notified the by, or filed with the liled by registered the Department o Very truly (Sign Nam Address of	JUNE 5, 1969. land surveyor and all cost at any objection they wish the Department of Mines with mail, or delivered to the aday (Mines at Charleston, West Virginia 25.)	to make, or are required within ten (10) days. * bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are been make by Section 3 of the Code, must be received be 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	gineer or licensed thereby notified the by, or filed with the lited by registered the Department of Very truly (Sign Name Address of ell Operator	land surveyor and all costs at any objection they wish the Department of Mines with the Department of Mines with the Department of Mines at Charleston, West Vinginia 25. State If mines, within said period of ent shall forthwith issue to the	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it 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 AC-304 - 292-6331 "SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed if the filing of such plat, that no objections have been made by the	gineer or licensed thereby notified the by, or filed with the lited by registered the Department of Very truly (Sign Name Address of ell Operator	land surveyor and all costs at any objection they wish the Department of Mines with the Department of Mines with the Department of Mines at Charleston, West Vinginia 25. State If mines, within said period of ent shall forthwith issue to the	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia. 273 325 f ten days from the receipt of well operator a permit reciting and that the same is approved.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it 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 AC-304 - 292-6331 "SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed if the filing of such plat, that no objections have been made by the	rilled BEFORE gineer or licensed hereby notified the by, or filed with the filed by registered the Department of Very truly (Sign Name) Address of ell Operator by the Department of location, the department of the coal operators or for	land surveyor and all costs at any objection they wish the Department of Mines with the Department of Mines at Charleston, West Operator Charleston City or Town West Virginia 25: State If mines, within said period of the shall forthwith issue to the pound thereto by the department of the standard of the sta	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia. 273 325 f ten days from the receipt of well operator a permit reciting and that the same is approved.
	The enclosed plat was prepared by a registered enghave been notified as of the above date. The above named coal owners and/or operator are it to make by Section 3 of the Code, must be received be Copies of this notice and the enclosed plat were mader 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 AC-304 - 292-6331 *SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed it the filing of such plat, that no objections have been made by the and the well operator authorized to proceed. *I have—read and understand the reclamation requirements	rilled BEFORE gineer or licensed hereby notified the by, or filed with the filed by registered the Department of Very truly (Sign Name) Address of ell Operator by the Department of location, the department of the coal operators or for	land surveyor and all costs at any objection they wish the Department of Mines with the Department of Mines at Charleston, West Operator Charleston City or Town West Virginia 25: State If mines, within said period of the shall forthwith issue to the pound thereto by the department of the standard of the sta	to make, or are required within ten (10) days. bove named coal operators before, or on the st Virginia.

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

	RK ORDER TO^ DRILL DEEPEN FRACTURE-STIMULATE				
DRILLING CONTRACTOR:	•	RESPONSIBLE AGENT:	ONSIBLE AGENT:		
		ADDRESS P.O.Box 610, Clendenin, WV			
TELEPHONE					
	MPLETED WELL: 6715	TELEPHONE <u>965-3</u>	317		
	ORMATION: Tuscarora	ROTARY	CABLE TOOLS		
	OIL GAS X ("ONID CTION + GR			
•					
	100 TOT	WAIER FLO	OODOTHER		
TENTATIVE CASING PROG	RAM:				
CACING					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP		
0 - 16	60'		OR SACKS - CUBIC FT. To surface		
3 · xx 3/8	250'		To surface		
- 5/8	2200'		To surface		
5 - 5/8		AND THE PROPERTY AND TH	The second secon		
1/2	5150'				
1/2	6715'		AND THE PROPERTY OF THE PROPER		
			Perf. Top Perf. Bottom		
incrs			Peri. Top		
		and the second s	Perf. Bottom		
APPROXIMATE FRESH WAT	TER DEPTHSFEET	SALT WATER	FEET		
MIROMMAIE COAL DEPT	HS		•		
S COAL BEING MINED IN	THE AREA? No.	BY WHOM?	- Company of the Comp		
O DRILL:			THE RESIDENCE OF THE PROPERTY		
	•				
OF PLAT.	ES OF OG - 1, \$100.00 PERMI	T FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
33 22111					
O DRILL DEEPER OR RED					
SUBMIT FIVE (5) COPI	ES OF OG - 1, SHOWING ORIGI	NAL PERMIT NUMBER ANI	D PERFORMANCE BOND ON		
MUST ALSO BE SUBMI	W IV 1968, A PERMANENT C	OPY OF THE PLAT AND T	HE ORIGINAL WELL RECORD		
O FRACTURE - STIMULATE					
BOND, PERMANENT PI	ORIGINALLY DRILLED BEFO AT AND ORIGINAL WELL REC	RE JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE		
,	WI WIND OWIGINAL MELL KE	ORD.			
ING ORIGINAL PERMIT	ORIGINALLY DRILLED ON AL NUMBER, AND PERFORMANCE	ND/OR AFTER JUNE 5, 1929 BOND	FIVE COPIES OG - 1, SHOW-		
four (24) hours in advance	filed within ninety (90) days of c	umpletion for bond release.	Inspector to be notified twenty-		
- (0.) 110213 131 2012110			•		
			Commission of Commission Commissi		
	٥				
The following waiver mu	st be completed by the coal ope	rator if the grand in the b			
ereof.	The state of the s	rator it the permit is to be is	surd within ten days of receipt		
AIVER: I the undersigned,	Agent for	Coal Company Owner	ws Onomics - 15 12		
this lease have exam	nined and place on our mine ma	ips this proposed well location	or Operator of the coal under		
providing operator h	Coal Company last complete with all rules and regu	lations in Articles 1 5 and well	Il being drilled at this location,		
Code.	seres and take	n and n and n	Chapter 22 of the West Virginia		
161					
101					
Jan 1			in and the second secon		
11 : 4:		l'or	Coal Company		
JUM . I regard		***************************************			
		***************************************	Coal Company Orficial Title		

OIL COMP		***************************************			

OIL & GOS DEPT. OF A