





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division WELL RECORD 17



	WELL	RECORD	17	OIL & G	AS DIVISION OF MINES GREEN X
QuadrangleWilliamson, Ky-WV 059- Permit No. Rev-Ming-919				Recycling Water Floor	Comb. Storage Kind)
Company Columbia Gas Transmissic Address P. O. Box 1273, Charlesto	on, WV	Casing and Tubing	Used in Drilling	Left in Well	Cernent fill up Cu. ft. (Sks.)
Farm Cotiga Development Location (waters) Miller's Creek Well No. 20674		Size 20-16			Cu. 11. (SKS.)
District Hardee County Min The surface of tract is owned in fee by Co	go	Cond.			
Development Co.		13-10'13 3/8 9 5/8	63'	63'	60 sks (63')
Address Paoli, PA 19301	3 in a man and a	8 5/8	1951.50	1951.50	462 sks (1951')
Mineral rights are owned by Cotiga Deve Co. Address Paoli, PA 19	10pment 30l	5 1/2			
Drilling Commenced 9-17-79		4 1/2	4084	4084	269 sks (24501)
Drilling Completed 9-27-79 Initial open flow 0 cu. ft	bble	3 2 3/8	000000000000000000000000000000000000000		
Final production 641, 666 cu. ft. per day. Well open 6 hrs. Before test.	bbls.	Liners Used	3666'8"	3666'8"	
Foam fractured Berea & Upper Similar fluid; 372,000 Scf N2; 30,000# Coal was encountered at N/A Fresh water 85 Fe Producing Sand Brown Shale and Ber	hale w/750 g 80/100 & 30 Feet	gal. Mud Acid: 0,000# 20/40 S	48,078 to		Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
Sub Base Surface Clay & Shale Sandstone Sand & Shale Sand Little Lime Pencil Cave Big Lime	0 10 25 85 113 210 228 285 776 854 875 1087 1156 1744 1834 1854 1898	10 25 85 113 210 228 285 776 854 875 1087 1156 1744 1834 1854 1854 1898 1904	2" Water	@ 85 1	
Injun Shale Weir Shells Shale	2074 2106 2131 2354	2074 2106 2131 2354 2720			36

Formation Color Hard or Soft	Top Feet 17	Bottom Feet	Oil, Gas or Water * Remarks
Berea Sand Brown Shale Corniferous Lime	2720 2792 4137	2792 4137 4139	
T.D.	4841088	4139	
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Date	April	22,	1980	19
APPROVED	10		ston	and the second s
APPROVED	Z-Z-K	LOK.	ew-	Owner
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FORF	IV-2
(Obve	rse)

STATE OF WEST VIRGINIA Date DEPARTMENT OF MINES, OIL AND GAS DIVISION

te	:	March 9		1	9

[08-78]

OfL AND GAS WELL PERMIT APPLICATION

Well No.	' S	20674		·		
ADT MASS	Mo	117	00	0910		

		AP	1 Well No. 41 -05	inty Perr
WELL TYPE: Oil/ Gas _X_/	**		Coase cou	ncy rer.
(If "Gas", Production X / Unde	ergrößnd stora	ine/ Deep_	/ Shallow 🔀	_/)
LOCATION: Elevation: 1080.36 Water	rshed: <u>Mille</u>	r's Creek		***************************************
District: <u>Hardee</u> Count	ty: <u>Mingo</u>	Quadrang	le: Delbarton	
WELL OPERATOR <u>Columbia Gas Transmission</u> C	orp. DEST	IGNATED AGENT JO	hn R. Henning	
Address P. O. Box 1273	***************************************		Box 1273	
Charleston, W. Va. 25325	*		eston, W. Va. 2532	
	***************************************	-		
OIL & GAS ROYALTY OWNER Cotiga Development Co.	COAI	LOPERATOR Unop	erated	• .
Address <u>25 Darby Road</u>	•			
Paoli, Pennsylvania 19301				
Acreage 9,638.97	COAI	L OWNER(S) WITH E	DECLARATION ON RECORD	\:
SURFACE OWNER Cotiga Development Co.	Name		opment Co.	
Address 25 Darby Road		Address 25 Dar	by Road	
Paoli, Pennsylvania 19301			, Pennsylvania 193	101
Acresise 9,638.97	Name	e		
FIELD SALE (IF MADE) TO:		Address		-
Niemes 4	No paragraphy and the Poly			
Address	COA	L LESSEE WITH DEC	LARATION ON RECORD:	
	Name	e None	is it is a line of the second	William)
OIL & GAS INSPECTOR TO BE NOTIFIED	•	Address		<u> </u>
Name Arthur St. Clair	,	-	المالية	1070
Address P. O. Box 157			MAR 1 2	137.3
Brenton, W. Va. 24818	,	•	OIL & GAS D	NOISIVI
The undersigned well operator is en	titled to one	rate for oil or u	DEPT. OF	MINES
location under a deed/ lease _X / o	ther contract	/ dated J	anuary 10 . 19 39	9, to the
undersigned well operator from				
[If said deed, lease, or other contract has b				
Recorded on January 10 , 19 39 , in the			unty Commission of _	Mingo
County, West Virginia, in Deed Book		•		
PROPOSED WORK: Drill X / Drill deeper			and the second s	
Plug off old formation				
Other physical change in	well (specif	у)		
planned as shown on th	ne work order	on the reverse s	ide hereof.	
The above named coal operator, coal	owner(s), an	d coal lessee ar	e hereby notified th	at any
objection they wish to make or are required t				
of Mines within fifteen (15) days after the r	eccipt of thi	s Application by	the Department.	
Copies of this Permit Application a	ind the enclos	ed plat and recl	amation plan have be	en maileu
by registered mail or delivered by hand to th	ie above named	coal operator,	coal owner(s), and c	oal lesse…
on or before the day of the mailing or delive	ery of this Pe	rmit Application	to the Department o	s Mines a
Charleston, West Virginia.	:		Magner	

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS

CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

COLUMBIA GAS TRANSMISSION CORPORATION
Well Operator

Its Director, Exploration & Development

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRACTO	R (IF)	(NOWN)			*			
				Addre	·ss	***************************************			
GEOLOGICAL T	ARGET 1	FORMATI	on. B	Berea	-Shal	е .	•		
						,		Rotary X /	Cable tools /
								feet.	
				*				•	an YeaA HS X
CASING AND T	,						•		
CASING OR			' FICATIO) N S	,	I FOOTAGE	INTERVALS	forman arrive	oll proving
TUBING TYPE		1	Weight	ì	llsed		\$	CEMENT FILL-UP OR SACKS (Cubic feet)	
Conductor	13-3/8			Х	1000	60'	3010 111 110 21	To surface	Kinds
Fresh water				X		2050'		To surface	ATTIGG
Coal	-								de la constantina del constantina de la constantina de la constantina del constantina de la constantin
Intermediate	4-1/2	K-55	10.5	Х		4335'			All the second s
Production							A		Depths set
Tubing	2-3/8	J-55	4.6	Χ	-	43351			
Liners									Perforations:
									Top Botton
NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (n) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dealling within 200 feet of the proposed well.									
is not	fractu Led as	ring o such o	r stimu n the F	lati orm	ng is IV-2 f	I not be required to be part of filed in conne	the work for	cturing or stim vinich a permi th.	ulating a well t is sought and
						Chapter 22,		·.	ing the second of the second o
of the	• W. Vo	z. Code,	the local	ilion i	s hereb	oy approved			
for _	dre	llen	<i>f</i>	This po	ermit sl	nall expire if			· · · · · · · · · · · · · · · · · · ·
эрега	tions hav	ce por K	mence	d by	///	13/79	THE THE COT OUT THE THE THE SING HER THE SEE SHE		مقد جائد الله الله الله على على الله على الله على أنت أنت الله عند الله الله الله الله الله الله الله
Deput Division completed by the real overator and by any exal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:									
		•				<u>W A I V E</u>	R	•	
location has well location the work pro	examing, the posed	ned thi well to to be o	ls prop locatio lone at	osed n has this	well been loca	location. If added to the tion, provide	a mine map e mine map. T d, the well o	xists which on he undersigned	coal under this well vers the area of the has no objection to aplied with all
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		***************************************							A STATE OF THE STA
Date:			, 19	· 	· 1.3				**************************************