



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division WELL RECORD

Quadrangie Williamson, WV Permit No. Ming-0955

Rotary_X___ Oil_ Cable__ Gas_ Recycling_ Comb. Water Flood__ Storage. Disposal___

132 1981

E. G. GAS DART T.H. OF M.

Company Columbia Gas Transmission Corporation Address P. O. Box 1273 - Charleston, WV Farm Cotiga Development Co. Acres 9639	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Mill Fk. of Miller Creek	Size			;
Well No. 20258 Elev 1198' District Hardee County Mingo	20-16 Cond.			<u>.</u>
The surface of tract is owned in fee by Cotiga	13-10"13 3/8	31	31	31' (18 sks)
Development Co.	9 5/8			
Address Paoli, PA 19301	8 5/8	2240.55	2240.55	2243' (585 sks)
Mineral rights are owned by Cotiga Development	7			
Co. Address Paoli, PA 19301	5 1/2			. 🦸
Drilling Commenced October 16, 1980	4 1/2	4042.75	4042.75	446' (80 sks)
Drilling Completed October 25, 1980	3			262' (50 sks)
Initial open flow Show on ft hale	2 3/8	3832'	3832'	
Final production *See Below tt. per day bbls. Well open 6 hrs. Before test *See Below	Liners Used			
Well open 6 hrs. Before test "See Below"			4	

Well treatment details: Attach copy of cementing record.

75 Q Foam fractured B. Shale with 500 gallons Mud Acid; 360,000 scf N_2 ; 30,000# 80/100; 30,000# 20/40 sand.

75 Q Foam fractured Injun with 12 bbls Mud Acid; 355,000 scf N_2 ; 21,000# 80/100 and 30,000# 20/40 sand. B. Shale - 60 mcf; 337# RP; Injun - 146 mcf; 332# RP (Sting-in Coal was encountered at _ Inches Salt Water 1950-2035 Fresh water_ Depth 3818-4006; 2363-2368 B. Shale & Injun Producing Sand_

			<u>420 54 67</u>
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Top Soil and Sand	0	30	
Sand	30	390	
Shale and Sand	390	617	
Shale	617	800	
Shale and Sand	800	920	
Shale	920	1025	
Sand and Shale	1025	1143	
lst Salt Sand	1143	1374	
Sand and Shale	1374	1437	
2nd Salt Sand	1437	1968	Water @ 1950-2035
Shell	1968	1980	
Maxon	1980	2037	
Shale	2037	2150	
Big Lime	2150	2344	447.5
Shale	2344	2364	4006
Injun Januari	2364	2386	400 14
Shale	- 2386	2422	417.6
E I D	-2422	2646	5 alaxory
Shale	2646 -	3012	LA Maga
Berea	3012	3074	· · · · · · · · · · · · · · · · · · ·
Devonian Shale	3074	4418-	
Corniferous	4418	4425	
T.D.		4425	

(over)

^{*} Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA

CED 1 | 1980

DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE September 8, 1980
Surface Owner Cotiga Development Company	Company Columbia Gas Transmission Corp.
Address 25 Darby Road, Paoli, PA 19301	
Mineral Owner Same as above	
	Mill Fk of Miller Creek
Address Coal Owner Same as above	
	·
Coal Dessee Marrowbone Development Co	
P. O. Box 445, Kermit, WV 25674	Ongo Cigarian State Stat
PERMIT MUST BE POSTED AT THE WELL SITE	
with Chapter 22,	
he W. Va. Code, the location is hereby approved	
as VV. Va. Code, his locality shall expire if	INSPECTOR
drilling . This permit shall expire if	TO BE NOTIFIED Arthur St. Clair
rations have not epimmenced by 5-26-81	ADDRESS P. O. Box 157, Brenton, WV
	The second secon
Fred Danstell	PHONE 732-6227
Deputy Director - Oil & Gas Division	COMMANDERS ACCURATION AND AND AND AND AND AND AND AND AND AN
GENTLEMEN:	
The undersioned well operator is entitled to drill u	pon the above named farm or tract of land for oil and gas, having fee
	lease dated 1/29 1952 by
	lease dated
	again man angle date date and analysis and
	and recorded on the day of
19 in Mingo County, Book	36 Page 208
19 inMingo County, Book X NEW WELL DRILL DEEPE	36 Page 208 REDRILL FRACTURE OR STIMULATE
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Director, Exploration & BLANKET BOND

Development

ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

DRILLING CONTRACTOR: (If			FRACTURE-STIMULATE	
	Known)	RESPONSIBLE AGEN		
NAME		NAME Joe Campbell ADDRESS P. O. Box 2946, Huntington TELEPHONE 529-4173		
ADDRESS				
TELEPHONE				
ESTIMATED DEPTH OF COMPL	ETED WELL: 4240'	ROTARY X	_ CABLE TOOLS	
PROPOSED GEOLOGICAL FORM				
TYPE OF WELL: OIL_	GAS X COM	IB. STORA	GE DISPOSAT	
	RECYCLING	WATER E	LOODOTHER	
TENTATIVE CASING PROGRAM				
CASING AND TUBING - SIZE	USED FOR DRILLING	LLET IN WELL	CEMENT FILE UP OR SACKS - CUBIC ET.	
20 - 16		THE COMMENT OF THE PROPERTY OF THE COMMENT OF THE C		
13 - 1/2 3/8	60'	-	To surface	
9 - 5/8				
8 - 5/8	2000'		To surface	
5 1/2	-			
4 1/2	4240'			
3				
2				
Liners				
			Pert. Bottom	
S COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES (OF PLAT.	OF OG - 1, \$100.00 PERMIT 1	BY WHOM?		
S COAL BEING MINED IN THE SUBMIT FIVE (5) COPIES (OF PLAT. O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OR	AREA? Yes OF OG - 1, \$100.00 PERMIT 1 .: F OG - 1, SHOWING ORIGINA O 1929, A PERMANENT COPY O. IGINALLY DRILLED REFORE	BY WHOM?	BOND AND PERMANENT COPY	
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