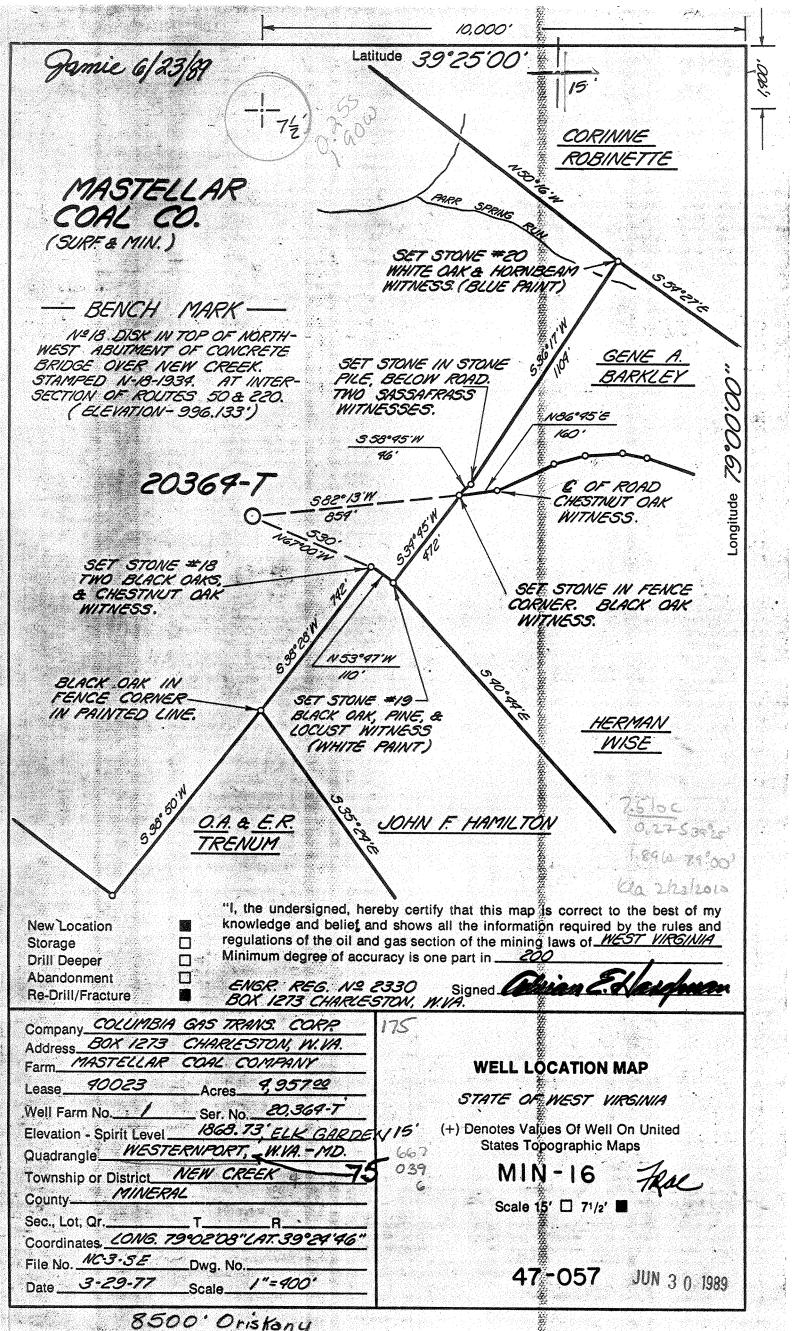
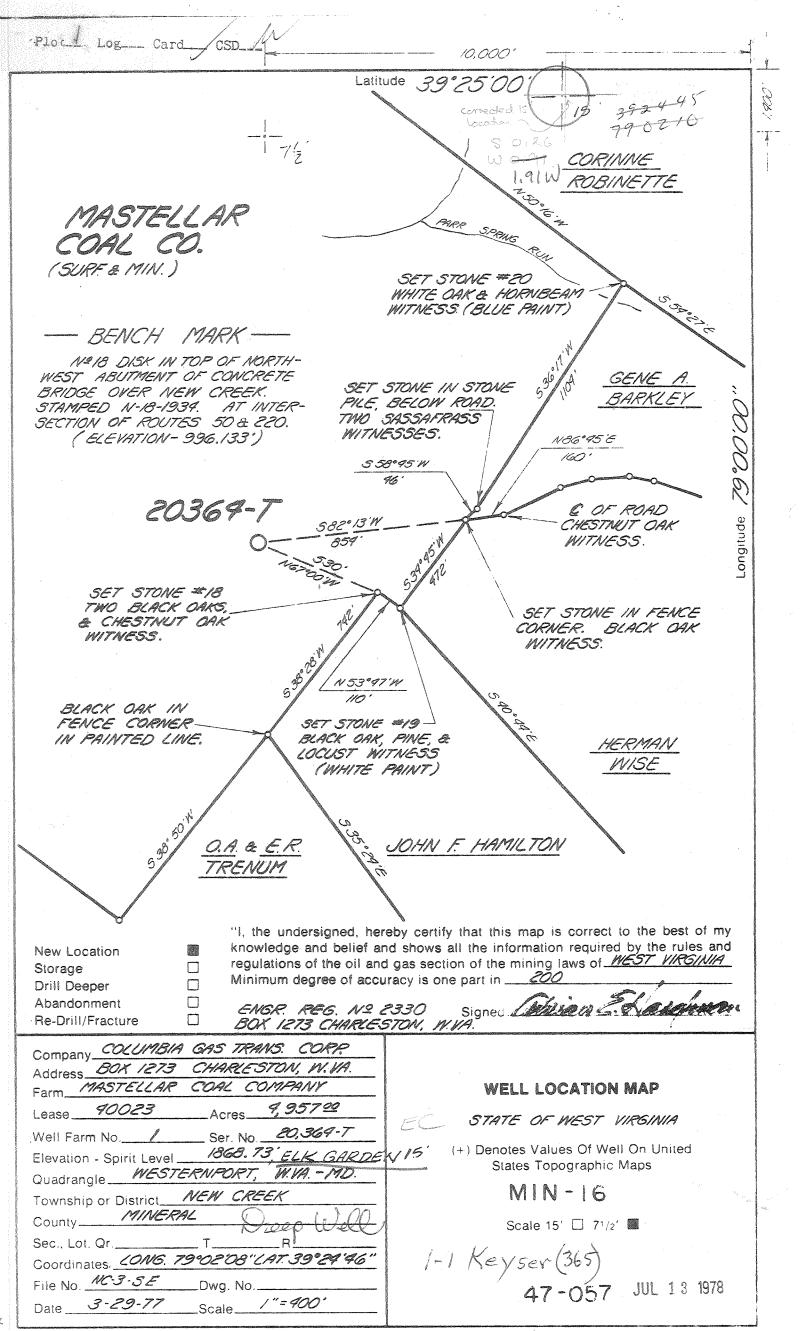


8500' Oristani







### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

## Oil and Gas Division

## WELL RECORD 4

Tubing

Quadragic Westernport, WV-Md

Company Columbia Gas Transmission Corp. Casing and

4 hrs. before test 3633 RP.

\_\_\_ Elev\_1862,54

Address P.O. Box 1273, Chas., WV 25314

Carm Mastellar Coal Co. Acres 4957 Location (waters) Parr Spring Branch q

District New Creek County Mineral

Address R.F.D. 4, Keyser, WV 26726

Mineral rights are evened by Same as above

Initial open flow 4,440 M cu. ft. bbls.

Final production 9,728Mc. ft. per day \_\_\_\_\_bbls.

The surface of tract is owned in fee by.....

Drilling Commenced Sept. 22, 1978 Drilling Completed Dec. 20, 1978

<u> Mastellar Coal Co.</u>

\_\_\_\_\_Address\_\_\_\_

Well open \_\_\_

Well treatment details:

Permit No. Min. -16

Well No. 20364-T

OREGINE OF

Cable Gas X
Recycling Comb.
Water Flood Storage
Disposal (Kind)

Left Cement fill up
in Well Cu. ft. (Sks.)

Size 20-16 20" 58' Cond: 13-10 13 3/8" 435! 435' 300 sacks 2,494' 2,494 9 5/8 790 sacks 8,312' 8,312' 8.5/8 135 sacks 5 1/2 3/8 EUE 8,476' not cemented

362

145 sacks

Used in

**Drilling** 

Liners Used 5½"

Attach copy of cementing record.

Treated with 15,000 gallons Mud Acid, by Halliburton on 9/7/79. Treated at 3500# at rate of .8 BPM

# 9,728 MCF

Coal was encountered at None Feet Inches

Fresh water Feet Salt Water Feet

Producing Sand Oriskany Depth 8500-8506

Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandstone Shale Sandstone Shale Sandstone Shale Sandstone Shale Siltstone, Shale Sandstone Siltstone, Shale Siltstone Shale Siltstone Shale Siltstone Sandstone Shale, Siltstone Sandstone, Siltstone Shale Sandstone, Siltst Sandstone Shale, Sandstone Shale, Sandstone Shale, Sandstone Shale, Sandstone Shale, Sandstone Shale, Sandstone Sandstone, Siltst Sandstone, Siltst Sandstone, Siltst Sandstone, Siltst Sandstone, Sandst	tone tone tone	0' 460 580 590 614 626 640 710 780 920 930 1,160 1,240 1,865 1,960 1,990 2,072 2,396 2,720 2,870	460' 580 590 614 626 640 710 780 920 930 1,160 1,240 1,865 1,960 1,865 1,960 2,020 2,272 2,396 2,720 2,870 2,910		

(over)

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

Formation Color Hard or Soft	Top Feet if	Botton: Feet	Od. Gas or Water * Remarks
Sandstone Siltstone Sandstone Silty Shale Siltstone Sandstone, Siltstone Sandstone Siltstone, Sandstone Sandstone Shale, Siltstone Sandstone Siltstone, Sandstone Shale, Siltstone Silty Shale Shale Silty Shale Shale Limestone Siltstone, Limestone Shale Siltstone, Shale Limestone Tioga Shale-Needmore Sandstone-Oriskany Helderburg LTD	2,910 3,000 3,050 3,460 3,760 4,164 4,200 4,360 4,430 5,140 5,246 5,292 5,790 6,590 6,590 7,232 7,250 7,282 7,250 7,282 7,365 8,382 8,396 8,732	3,000 3,050 3,460 3,700 3,760 4,164 4,200 4,360 4,430 5,246 5,292 5,790 6,590 6,590 6,590 7,232 7,234 7,280 7,365 8,382 8,396 8,500 8,732 8,747	
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	DateFebru	ery :	27,	1.4	19	80
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	By Manager	Dri	1111	n er		



## DEPARTMENT OF MINES



# Oil and Gas Division

OIL & GAS DIVISION DEFT. OF MINES

# OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE June 27, 1978
Surface Owner Mastellar Coal Company	Company Columbia Gas Transmission Corporation
Address R.F.D. 4, Keyser, W. Va. 26726	
Mineral Owner Same as above	
Address	The state of the s
Coal Owner Same as above	
Address	
Coal Operator Unoperated	
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 approved	NCBECTOB
for <u>drilling</u> . This permit shall expire if T	O BE NOTIFIED Robert Stewart
operations have not commenced by 10-28-78	
· A	ADDRESS P. O. Box 345, Jane Lew, W. Va. 26378
Debuty Director - Oth & Gas Division	PHONE 884-7782
GENTLEMEN:	
· · · · · · · · · · · · · · · · · · ·	e above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or lease of Coal Company made to United Fuel Gas	and recorded on the day of
19 <sup></sup> in Mineral County, Book 178	
	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLEI	
The enclosed plat was prepared by a registered engineer of have been notified as of the above date.	or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or f	notified that any objection they wish to make, or are required liled with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the De	registered mail, or delivered to the above named coal operators  day before, or on the partment of Mines at Charleston, West Virginia.
	Very truly years,
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)
GEOTHISICAL LOGS BIRECILI IV.	Director, Exploration & Development
V. VA. OIL & GAS CONSERVATION COMMISSION	P. O. Box 1273
513 WASHINGTON STREET, EAST of	83 Street
HARLESTON, WEST VIRGINIA 25311 Well Oper	APPLICATION OF THE PROPERTY OF
	City or Town
	West Virginia 25325
	State

"SICTION 3..... It 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.

BLANKT BOND

MIN-16 PERMIT NUMBER

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

DRILLING CONTRACTOR: (If			FRACTURE-STIMPLATE			
WINDS CONTINUED (II		DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT:				
NAME		NAME Dave Rife				
ADDRESS		ADDRESS P. O. Bo	x 1440, Cumberland, Md.			
TELEPHONE		TELEPHONE 729-81	81			
ESTIMATED DEPTH OF COMPL	ETED WELL: 8500	ROTARY X	CABLE TOOLS:			
PROPOSED GEOLOGICAL FORM	MATION: Oriskany					
TYPE OF WELL: OIL_	GAS X	OMBSTORAG	E DISPOSAL			
		NG WATER FL				
•						
TENTATIVE CASING PROGRAM	<b>!:</b>					
CASING AND TUBING	USED-1 OR					
SIZE	DRILLING	LEFT IN * WELL	OR SACKS CUBIC LI			
20 - 77	601		To Surface			
13 - 44 3/8	5001					
9 - 578	25001					
8 - 5/8						
7	83001					
5 12	The second secon					
11.						
			Perf. Buttom			
	The second secon					
		I .	Perf. Bottom			
TO DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O			OND AND PERMANENT COPY			
MUST ALSO BE SUBMITTED OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM Required forms must be filed	IGINALLY DRILLED BEFOR AND ORIGINAL WELL RECO IGINALLY DRILLED ON AN IBER, AND PERFORMANCE	PY OF THE PLAT AND T E JUNE 5, 1929, FIVE (5) ( ORD D/OR AFTER JUNE 5, 192 BOND.	COPIES OG - 1, PERFORMANCI 9. FIVE COPIES OG - 1, SHOW			
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Official Title

Page 1 of \_\_\_\_ Form WW2-A (09/87) File Copy



DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date:	<u>May 8, 1989</u>		
Operator's	well number		
	20364-T-DD	-	
APT Well N	0. 47 - 057	- 01	Ole -PDAC

API Well No: 47 - 057 - 0016 -FRAC State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	(a) Name		oour company					
	Address _	RFD 4		Addres	s		····	
	(b) Namo	<u>Keyser, W</u>	V 26726	<u> </u>	-1 0-	( - \		
,	(D) Name			(D) Co				Declarati
	Address _			Name _				
	(c) Name			Addres	>			
	Address			Namo				
	radicoo			Addres		· · · · · · · · · · · · · · · · · · ·		
	<del></del>	· · · · · · · · · · · · · · · · · · ·		Ruures	J			
6)	Inspector	Phillip Tr	racv	(c) Co	al Le	ssee w	ith Dec	claration
- •	Address	Route 2, E	Box 37-A					-101001011
	****	Montrose.	WV 26283	Addres	s			
	Telephone	(304) - 63	WV 26283 36-8798					
	_ · · · · · · · ·							
		TO THE PER	RSON(S) NAM	ED ABOVE TAK	E NOT	TCE TH	ΔΨ•	
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FORM WW-2B

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<u>DEPARTMENT</u>	OF	ENE	RGY,	DI	VIS	SION	OF	OIL	AND	GAS
			PER							
	8.7.74		60	5	TR	ines	nisc	200	12	1/

				EAC =	Personissio		. A A A A
1)	Well Ope	rator:	Columbi	a Natural Re	<del>sburces</del> , Inc.		4, Cddo
2)				20364		3) El	evation: <u>1868.7</u> 3
4)	Well typ	e: (a)	Oil_/	or Gas	5 <u>X</u> /		
		(b)	If Gas:		$\frac{X}{X}$ Underg	round Storag Shallo	
5)	Proposed	Target	Formation	(s): <u>Ori</u>	skany Sandsto	ne	
6)	Proposed	Total D	epth:	8747	feet		
7)	Approxim	ate fres	h water s	trata dept	:hs:	-	
8)	Approxim	ate salt	water de	pths:	***************************************		
9)	Approxim	ate coal	seam dep	ths:		•••	
10)	Does lan	d contai	n coal se	ams tribut	ary to act	ive mine? Y	es/ No/
11)	Proposed	Well Wo	rk: Worko	ver, stimula	te additional	zone / /· *	/ 11
12)					ING PROGRAM	zone L Exister No Change	Z Will.
TYPE		S	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
,		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	20"			(58'	58'	150S ACKS
Fres	h Water	1378			4351	435'	300 SACKS
Coal	<	<u> </u>		- 44 <			
Inte	rmediate_	5 95/8		1,0	2,494'	2494'	790 SACKS
Prod	uction	85/8		DW 1	8.312'	8,3121	135 SACKS
Tubi	ng					/	
Line	rs	5黄			3621 1	15 SXIS 12 1	<b>QELVIEN</b>
PACK	ERS : Kin					الاقالة	JN 1 5 1989
1/1	- 4 1	ths set				DIVISI( DEPART	ON OF OIL & GAS
017,1	,,,	E	or Diviso	n of Oil a	and Gas Use		- OA
I	Fee(s)	ajd;	Well W	ork Permit	Rec	lamation Fun	d WPCP
15	Plat (	# WW-9	WW-	·2B (1)	Bond Blinger	LOME (Type)	Agent
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