

(Rev 8-81)





OIL 2. BAS DIVISION State of Mest Hirginia

DEPT. OF MINES

Bepartment of Mines Gil und Cas Zivision

Date	Februar	y 6, 1	1984	
Opera	tor's		-	
Well	No. 21	079		
Farm	Amherst	Coal	Compa	any
	- / 7	020		2003

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE:	Oil / Gas,	Gas X / Li	iquid Inje	ction rgrou	/ Was	ste Disposa age/ Deep	L/ DX/Sha	llow	_/}
LOCATION:	Elevation:	1328.28	Watershe	d I	Point Li	ck Fork			
		Malden					Quick		
	g cases							*.	
COMPANY Co	olumbia Gas T	ransmission C	orporation						4,000,000,000,000,000,000,000,000,000,0
ADDRESS P.	. O. Box 1273	, Charleston,	. WV	•	Caşing	Used in	Left	Cement	
- CONTRACTOR	DAGENT Jam	***************************************			Tubing			fill u	_
ADDRESS_P.	. O. Box 1273	, Charleston,	WV		Size				
SURFACE OF	WNER Amhers	t Coal Compar	1y	AND 777-00	20-DEK Cond.	39'	39'	30 sac	ks
ADDRESS PO	ort Amherst,	Charleston, V	v 25306	naturica (militar	13-100	878.73'	878.73°	520 sa	cks
	ights owner			and the same of th	9 5/8	2370.70.	2370.70	1226 s	acks
ADDRESS PO	ort Amherst,	Charleston, V	TV 25306		8 5/8	•			
OIL AND G	AS INSPECTOR	R FOR THIS W	ORK Martin		7	5544	3242'	119	
Nichols	ADDRESS			renotivelro-	5 1/2				
PERMIT IS	SUED 6-1	8-82		•	4 1/2	6920'	6920'	117	-
DRILLING		7-7-82			3				
DRILLING	COMPLETED_	8-2-82			2				
CONTINUOU REWORKING	'ABLE: PLUC IS PROGRESSIO :. VERBAL PI	ON FROM DRII	LING OR		Liners				
CN_CCTCN	L TARGET FO	DMATTON	Tuscarora		<u> </u>	Dep	th 6996		feet
	n of complete		no f	eet 1	Rotary				
	r strata de			•					
	. sean depth							e area?	N
OPEN FLOW) -		:056	Feat
	ducing forma								
Gas	: Initial o								
		n flow 43	en Marchaella (1981)						
6 70 5 − 1		of open flo							
	ic rock pre					releir) ar c	<u> </u>	اعتبد حسب	-
•	applicable		-			Carragona des	nt-in		Fire
Sec	ond producin	d Ioniscro	34-	.e /a	Oil.	ray where wer Thitial open	flow	2)	bl /d
(325)	: Initial o	pen flow	Y-	/U 		Final open	· ····································		, Ы <i>/ё</i>
		e of open fl							
@ &= ==	Time tic rock pre	and the second s					A STATE OF THE STA		
34	me som bre		2007 136				F. Land	2 1 198	4

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Acidized Tuscarora 9-22-82 from 6948-6960' with 1000 gallons HCL and 2000 gallons HF, 22,125# 20/50 sand.

7" casing run to 5544'. Pulled 2302'. Left 3242' in hole hanging on packer set at 2302'.

WELL LOC

			REMARKS
FORMATION COLOR HARD OR SOFT	JOP FEET	BOTTOM FEET	Including indication of all freand salt water, coal, oil and o
Sand White Shale gray Sand gray Coal black Shale gray Sand gray Sand white hard Sandy shale medium gray Sand white hard Sandy shale medium gray Salt Sand Shale Maxon Little Lime Shale Big Lime Injun Siltstone Weir Siltstone Berea Onondaga Oriskany Williamsport Keefer Tuscarora LTD DTD	140 153 191 199 283 1018 1115 1180 1325 1474 1620 1635 1675 1735 1740 1900 1960 2170 2210 2310 2 5350 5450 66210 6450 6890	140 153 191 199 283 1018 1115 1180 1325 1474 1620 1635 1675 1735 1740 1900 1960 2170 2210 2310 2330 5450 5500 6240 6485 6970 7012	

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By: February 6, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including well, surrountered in the drilling of a well."



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Farm	- Amherst C	oai Co. ''	
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AP! #	47 - 039 -	2003	
7 77	11 039	J00J	
Date			٠.
2010	june 16.	1982	
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STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS VELL PERMIT APPLICATION

WELL TYPE: 011 / Gas X /	
(If "Gas", Production X / U	nderground storage / Deep X / Shallow /
LOCATION: Elevation: 1328.28 Water District: Malden Count	shed: Point Lick Fork /: Kanawha Quadrangle: Quick
1.000 5 1	orp. DESIGNATED AGENT J. L. Weekley Address P. O. Box 1273 Charleston, WV 25325
ROYALTY OWNER Amherst Coal Co. Address ,Port Amherst Charleston, WV 25306	COAL OPERATOR Pratt Mining Co. Address P. O. Box 175 Hansford, WV 25103
Acreage 640 SURFACE OWNER Amherst Coal Co. Address Port Amberst	COAL OWNER(S) WITH DECLARATION ON RECORD: NAME Same as Royalty Owner Address
Acreage Charleston, UV 25306 FIELD SALE (IF MADE) TO:	NAME Address
NAME Address	COAL LESSEE WITH DECLARATION ON RECORD: NAME Pratt Mining Co.
OIL AND GAS INSPECTOR TO BE NOTIFIED:	Address P. O. Box 175 Hansford, WV 25103
NAME Martin Nichols Address P O Box 554	RECEIVED
Clendenin, WV 25045 Telephone 548-6993	JUN 1 7 1982 OIL AND GAS DIVISION WY DEPARTMENT OF MINES
The undersigned well operator is entiabove location under a deed / lease x to the undersigned well operator from (If said deed, lease, or other contract has	tled to operate for oil or gas purposes at the / other contract / dated 6/1 , 1910,
	ffice of the Clerk of County Commission of
PROPOSED WORK: Drill X / Drill Deeper	20 Book at page 331. A permit is / Redrill / Fracture or stimulate / / Perforate new formation / well (specify)
objection they wish to make or are required Department of Mines within fifteen (15) day Copies of this Permit Application and the emailed by registered mail or delivered by her(s), and coal lessees on or before the dato the Department of Mines at Charleston, we	ne work order on the reverse side hereof. (1), and coal lessee are hereby notified that any of the make by Code \$22-4-3 must be filed with the research of this Application by the Dept. Inclosed plat and reclamation plan have been and to the above named coal operator, coal own-rey of the mailing or delivery of this Application lest Virginia.
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Columbia Gas Transmission Corporation Well Operator
CONSERVATION COMMISSION 1613 WASHINGTON ST., E. CHARLESTON, WV 25311 Telephone - 304/348-3092	y: DH, Strict 5: Manager, Drilling & Operations, East

(Revised 3-81)

PROPOSED WORK ORDER

4 6 704		THIS	IS AN	ESTIMA	TE ON	Υ:		
ALTUAL	INFORMATION	MUST BE	SUBMIT	TED ON	FORM	14-35	UPON	COMPLETION

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GEOLOGICAL Estimate Approxim Approxim Is coal	ed dept nate wa nate co being	th of conter structured in the content of the conte	mpleted ata dept depths:	well hs:	699 Fresh	The state of the s	reer;	FY X / Cab	le toolsfeet.	
CASING OR TUBING TYPE	Size	SPE	CIFICATI Weight per ft	New	[Used	1 20 P 1 1 200 1 1	INTERVALS Left in Well	CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS	
Fresh water	130 _13-3/	T.		X	1	60'	60'	To surface	Kinds	APPROXIMENTS OF THE
Coal	1 9-5/		1	X	-	600' 2600'	500'	To surface		
Intermed.	7	Control and Contro	Contractor - Processor Contractor	X	-	5600'	26001	To surface	Sizes	raniai - racamananis va pava
Production	4-5	-		X	<u> </u>	6995	An extension and the second and the		IC and b	reman soperations
Tubing Liners	d Sinamanianistasiana S		s Anna programme de programme se se comissione e de programme			-	·		Depths set	Printer and Appropriate Contracts
See 3 2 2 2 3	Section to the section of the sectio	in ancount to reconstant second	·····································	-				ann a feirig (Carlo), ann a fair an aireann ann an fair ann an Earlann an Carlo). An aireann agus ann an	Perforations	- mentalanian mentalanian
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	CONTRACTOR NAMED AND ADDRESS OF THE PARTY OF		A depote the second	de la constitución de la constit		-	The second secon			esteriorenteción Ambrosol I
ethough Legate Permi	em pre stion 1 V-9, "	escribed 12, or i Peclama 1d Recul	l by Regu n lieu : tion Plo ation 23	lation thereon" ap	on 11; of the oplica	(ii) a b other so ble to th	ond in on writy al reclama	t the origin accompanied e of the for lowed by Cod tion required on the same consent required	by (i) a pla Ts prescribe e §22–4–2, (d by Code	d by iii)

633 1-80 from the owner of any water well or dualling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is mught and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST	BE FOSTED AT	HE WELL SI	7.5. 12.
ALL PROVISIONS E	THIS IN ACCO	DABANGE WIT	THE SHAPFER EST,
ARTICLE A OF THE	YY. YA. EODE,	PIE LOGATIO	PM IS HERESY
APPROVED FOR _	Drilling		MIT SHALL EXBIR
F CPERATIONS HA	VEHOL BOW	MEHKED BY _	2-24-83

the frilming wriver must be completed by the soul operator and by any coal owner in it he issued within fifteen (15) days of receipt thereof:

rea of the well location, the igned has no objection to the	/ owner / lessee / of oposed well location. If a min e well location has been added e work proposed to be done at the all applicable requirements	e map exists which covers the to the mine map. The under-
ate:	Rue	