

RECEIVED

IV-35 (Rev 8-81) JUL 9 - 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES



Date June 30, 1982

Operator's

20545

State of Most Hirginia Well No. Farm Amherst Coal Company

> API No. 47 -039 : 3700

Bepartment of Mines Gil and Ces Livision

WELL OPERATOR'S REPORT DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production x / Undergro	n/ Wast ound Storag	e Disposa e/ Dee	1/ p_X_/ Sha	llow/)
LOCATION: Elevation: 930.55 Watershed Le	ft Fork of	Witchers (lreek .	
District: Cabin Creek County Kana				
	·			
COMPANY Columbia Gas Transmission Corporation				
ADDRESS P. O. Box 1273, Charleston, WV 25325				Cement
DESIGNATED AGENT James L. Weekley	Casing Tubing	Used in	Left in Well	fill up
ADDRESS P. O. Box 1273, Charleston, WV 25325	Size	DITITING	Tri MeTT	Cu. ft.
SURFACE OWNER Amherst Coal Company	20-16			
ADDRESS Port Amherst, Charleston, WV 25306	Cond. 13 3/8" 13-10"	253.15	253.15	250 sacks
MINERAL RIGHTS OWNER Amherst Coal Company	9 5/8	2071.60	2071.60	600 sacks
ADDRESS Port Amherst, Charleston, WV 25306	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Martin	7	5135	3266.30	200 sacks
Nichols ADDRESS P.O.Box 554, Clendenin, WV	5 1/2	3233	3200.30	200 Sacks
PERMIT ISSUED February 19, 1982	4 1/2	6500.75	6500.75	170
DRILLING COMMENCED March 15, 1982	3	0300.73	6300.73	170 sacks
DRILLING COMPLETED April 10, 1982	2 3/8"	5810	5810	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 3/ 0	3010	1010	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON	men			
GEOLOGICAL TARGET FORMATION Clinton		Dept	<u>-h</u> 6560	feet
Depth of completed well 6620 feet	Rotary X			
Water strata depth: Fresh 30 feet;				
Coal seam depths:	Is coal h	ceing mine	ed in the	area?
OPEN FLOW DATA				
Producing formation Clinton	Pay	zone dept	h 6552-65	62 feet
Gas: Initial open flow 1424 Mcf/d	Oil: Init	ial open	flow	Bb1/đ
Final open flow 3450 Mcf/d	Fina	al open fl	.cw	Bb1/đ
Time of open flow between init	ial and fir	al tests	hou	îrs
Static rock pressure 1625 psig(surfac				
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	h_	feet
Gas: Initial open flow Mcf/d	Oil: Init	ial open	flow	Bbl/d
Final open flow Mcf/d	Oil: Fina	il open fl	.cw	Ebl/d
Time of open flow between init				
Static rock pressurepsig(surface	measuremen	nt) after	hour	s shut in
	L 1 9 1982	(Contin	ue on rev	erse side]

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

Fractured Clinton 2-9-82 from 6552-6568' with 740 bbls. water, 1,000 gals. HF (15%) acid and 26,100# 20/40 sand.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	12	37.	Fresh water at 30'
Sand - Shale	37	. 51	
Limestone	51		
Shale		275	
Sand - Shale	275	685	
1st Salt Sand	685	977	Salt water at 830'.
Shale	977	1030	
Sand	1030	1250	·
Sand - Shale	1250	1315	
Little Lime	1315	1370	
Shale	1370	1375	
Big Lime	1375	1550	
Injun	1550	1585	
Sand & Shale	1585	1765	
Weir ·	1765	1850	*
Sand & Shale	1850	2014	
Sand & Shale	2014	2100	
Sand & Shale	2100	2390	
Shale	2390	2740	
Shale	2740	3073	•
Shale	3073	3490	
Shale	3490	3500	
Shale	3500	3760	
Shale	37Ĝ0	4225	
Shale	4225	4569	
Shale	4569	4940	
Onondaga	4960	5052	
Oriskany	5052	5085	
Helderberg	5085	5350	
Salina	5350	5820	
Newburg	5820	5845	• .
McKenzie	5845	6090	
Rose Hill	6090	6480	,
Tuscarora	6480	6570	
Juniata	6570	TD	
TD	6620		

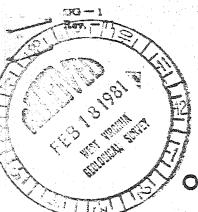
(Attach separate sheets as necessary) .

Columbia Gas Transmission Corporation June 30, 1982

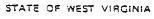
Note:

Regulation 2.02(i) provides as follows:

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







DEPARTMENT OF MINES

Oil and Gas Division



OIL & GAS DIVISION
DEPT. OF M.NES

	OIL AND GAS W	ELL PERMI	T APPLICATION	N
				•
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	to the department of mines,			•
	Charleston, W. Va.	DATE	February 3, 19	981
	Amherst Coal Company	Company	Columbia Gas	Transmission Corp.
	Add Port Amherst Charleston WV 25			3, Charleston, WV
	Mineral Owner Same as above	Farm At	mherst Coal Co.	Acres 640
	Address	Location	(ween) Left Fork	of Witcher Ck.
	Coal Owner Same as above	Well No.	20545	Elevation 930.55
	Lessee Prett Mining Company	menument Districted		County Kanawha
	Coal Operator Flatt Hilling Company	Quadrang	le Quick	
THIS PERM	TANGUIST DE POSTEDBAL 175 WHOMSFERD WY	25103		
All provinc	being in accordance with Chapter 22,			
of the W.	Va. Code, the location is hereby opproved			
for	irilling . This permit shall expire if	INSPECTOR		
	have not commenced by 10-13-81	TO BE NOTI	FIED Martin N	ichols
7	O Down and the	ANNERSS	P. O. Box 554, Cl	endenin WV
-1/	Director - Oil & Gas Division	Sand 13 Debug et a		
Vepury	precior on a contract	PHONE 548	8-6993	
	GENTLEMEN:			
	The undersigned well operator is entitled to drill u	the shove name	ed farm or tract of land	for all and are homes for
	title thereto, (or as the case may be) under grant or			
	Coal Co. made to United Fuel Ga	is Co.	recorded on the	day of
	19 in Kanawha County, Book	20 Page	331	
	X NEW WELL DRILL DEEPE	IR PET	ORILI. FRAC	דווסק אם פדונונין איים
	QIL AND GAS WELL ORIGINALLY D			. our out office to
		•		
	The enclosed plat was prepared by a registered en bave been notified as of the above date.	gineer or licensed la	and surveyor and all coal	owners and/or operators
	The above named coal owners and/or operator are	hereby notified that	any chiection their mich	to make as an amount
	to make by Section 3 of the Code, must be received !	by, or filed with the	Department of Mines wi	thin ten (10) days. s
	Copies of this notice and the enclosed plat were mu	ailed by registered m	sail, or delivered to the at	ove named coal operators
	or coal owners at their above shown respective addre- mme day with the mailing or delivery of this copy to	the Department of	Mines at Charleston, West	before, or on the
			\	
	PLEASE SUBMIT COPIES OF ALL	Very truly y	$() \times ()$	
	GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)	Well Operator	- James
	WEST VIRGINIA GEOLOGICAL AND		P. O. Box 1273	•
	ECONOMIC SURVEY	Address	Street	
	P. O. BOX 879	of Tell Operator	Charleston	
	MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	•	City or Town	на в при на на на на се образоване на чество на пред на пред на
	249 JUT 630 VIII	·	West Virginia 2	5325
			. State	
	*SECTION 3 If no objections are filed or found	by the Department of	mines, within said period of	ten days from the receipt o
	notice and plat by the department of mines, to said proposed the filling of such plat, that no objections have been made by the	location, the department ne coal operators or fou	it shall forthwith issue to the nd thereto by the department	well operator a permit reciting and that the same is approved
	and the well operator authorized to proceed.			
			47-039-3700	· · · · · · · · · · · · · · · · · · ·
	*1 have and any manned the second			PERMIT NUMBER
	"I have read and understand the reclamation requirements Chapter 22, Angle of Seption 12-b and will carry out the specifi			
	Signed by Conveni			
	Director, Exploration & Develo	pment		

BLATATI BOND



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

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	CD 4 (With B Company)	
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT:		
NAME		NAME Larry Friend		
ADDRESS		ADDRESS P. O. Box 610, Clendenin, WV		
TELEPHONE		TELEPHONE 965-3317		
ESTIMATED DEPTH OF COMPL	ETED WELL: 6560'		CABLE TOOLS	
PROPOSED GEOLOGICAL FORM	MATION: Tuscarora	and the second second second		
TYPE OF WELL: OIL_	GAS X C	OMB. STORAC	F. Brenog.	
	RECYCLI	NGWATER FI	OOD OTHER	
TENTATIVE CASING PROGRAM			OTAL	
CASING AND TUBING SIZE	USED FOR DRILLING	LITIN	CHMINETHICP	
20	THE RESIDENCE OF THE PROPERTY	WILL.	OR SACKS - CUBIC LT.	
13 - 48	30' 160'	The second secon	To Surface	
9 - 5/8	2010	THE RESERVE THE PROPERTY OF TH		
8 - 5/8	pt. Make verseenhelmen meetels kirment (al.) in timetil seek in etit kommentaan oo oo kiril seeken Azi timetid Turo doo see	Control of the Contro	To Surface	
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5 1/2		The second secon	The same and an annual section of the same and the same a	
	6560.		Bul 1501	
2 3/8	6560			
	The second secon	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Perf. Bottom	
		Company of the party of the par	Pert Top	
	n i mari ta paritu mini manga menjambah dan menjambah pangan pangan pangan pangan pangan pangan pangan pangan Manga pangan	The second secon	Perf Bottom	
O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED OFRACTURE - STIMULATE: OIL AND/OR GAS WELL ORI BOND, PERMANENT PLAT A OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM	FOG -1. SHOWING ORIGIN 1929. A PERMANENT CON GINALLY DRILLED BEFORE AND ORIGINAL WELL RECO GINALLY DRILLED ON AND BER, AND PERFORMANCE B	PAL PERMIT NUMBER AND TO THE PLAT AND TO THE PLAT AND TO THE JUNE 5, 1929, FIVE (5) CORD. DOOR AFTER JUNE 3, 1929, BOND.	OND AND PERMANENT COPY D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OCI - 1, PERFORMANCE 9. FIVE COPIES OCI - 1, SHOW-	
four (24) hours in advance.	when threey (90) days of cu		Inspector to be notified twenty-	
The following waiver must be	completed by the coal open	for if the mosmit is an L	ssurd within ten days of receipt	
AIVER: I the undersigned, Agent this lease have examined	and blace on our mine map	s this proposed well location	7n.	
providing operator has con Code.	Coal Company have noticed with all rules and regula	ve no objections to said we tions in Articles 4, 5, and 7	ll being drilled at this location, Chapter 22 of the West Virginia	
		P.O.	Coal Company	
		1 VI	The south of the second of the	