

Adark Kierr

(Rev 8-81)



OIL & GAS DIVISION DEPT. of MINES



State of West Birginia

Bepariment of Mines Gil und Cas Zivision

Date 3-12-84
Operator's .
Well No. 20659-T
Farm Sallie D. Chase Todd
API No.47 - 039 - 3462
Revised

WEIL OPERATOR'S REPORT OF

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergrou	/ Was	ce Disposal ge/ Deep	X/Sha	llow/)
LOCATION: Elevation; 1241.79 Watershed Co	ampbells	Creek		·
District: Malden County Kanaw	ha	Quadrangle	Mammot	h
compare Columbia Con Expression Corn				_
COMPANY Columbia Gas Transmission Corp.				Cement
ADDRESS P. O. Box 1273, Charleston, WV	Casing	Used in		fill up
DESIGNATED AGENT J. L. Weekley	Tubing	Drilling	in werr	Cu. ft.
ADDRESS P. O. Box 1273, Charleston, WV SURFACE OWNER Sally D. Todd c/o Kanawha Valley Bank ADDRESS Charleston, WV 25301	Size 20-XDEX Cond.	245	245	to surfac
ADDRESS Charleston WV 25301	13-78"	2598	2598	**
MINERAL RIGHTS OWNER Same as Surface Owner	9 5/8	6539	6539	: ::
ADDRESS ·	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Martin	7	8913	8913	
Nichols ADDRESS Clendenin, WV	5 1/2			
PERMIT ISSUED July 5, 1979	4 1/2			
DRILLING COMMENCED 9-6-79	3			
DRILLING COMPLETED 1-16-80	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Black River		Dep	th 10,5	22 feet
Depth of completed well 10,580 feet	Rotary_	x / Cabl	e Tools_	
Water strata depth: Fresh 20 feet;				
Coal seam depths: 180, 204	_	being min		area?NO
OPEN FLOW DATA DRY HOL				
Producing formation P/A		ry zone dep	Control of the Contro	feet
Gas: Initial open flow Mcf/d				Bbl/d
		inal open f		Bbl/d
Time of open flow between init				
Static rock pressurepaig(surfac	e measur	ment) afte	er hou	irs shut in
(If applicable due to multiple completion				
	202.50	sy zone deg		feet
Gas: Initial open flow Mcf/d				Bbl/a
Final open flow Mcf/d	Oil: F	inal open i	:low	Bbi/=
Time of open flow between init	ial and	final tests	ı jx	2019 2 1984
Static rock pressurepsig(surface				urs shut i

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

Plugged & Abandoned

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh
			and salt water, coal, oil and ga
Sand	0	20	
Shale .	20	60	
Sand	60	100	
Shale	100	145	
Sand	145	155	
Shale	155	180	
Coal	180	182	
Shale	182	204	
Coal	204	206	
Shale	206	764	
Sand	764	795	
Shale	795	860	
Sand	860	900	
Shale	900	1035	
Salt Sand	1064	1540	
Big Lime	1844	2083	
Injun	2083	2112	
Weir	2166	2291	
Berea	2528	2596	
·			
Onondaga	5594	5700	
Oriskany	5700	5728	
Helderberg	5728	5874	
Newburg	6480	6509	
Rose Hill	6761	7151	
Tuscarora	7151	7254	
Trenton Lime	8777	9061	
Black River	9061	10,278	
Wells Creek	10,278	10,522	
Beekmantown Dolomite	10,522	T.D.	
		TR	
		10580	
•			
	5	K H	

(Attach separate sheets as necessary)

Well Operator

By: Director, Exploration & Development

Date: 3-12-84

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 with encountered in the drill' of "



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

Rotary	X
Spudder	
Cable Tools	
Storage	

Quadrangle Mammoth

Permit No. 47-039-3462

WELL	F	Sees.	Contract of the Contract of th	0	R	D	l	5
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d in ling	Left in Well	Packers
	245' 2598'	Kind of Packer
		Size of
	65391	

Oll or Gas Well

Company Columbia Gas Trans. Corp. P.O. Box 610 Clendenin, WV 25045	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm Sallie D. Chase Todd Acres 1350 Location (waters) Campbells Creek	Size 20'' 13 - 3/8''		245' 2598'	Kind of Packer
Well No. 20039-1 Elev 1241.79 District Malden County Kanawha The surface of tract is owned in fee by Sallie D. Todd	10		65391	Size of
Address Charleston, WV Mineral rights are owned by Sallie D. Todd Address Charleston, WV	5 3/16		i .	Depth set
Drilling commenced 9-6-79 Drilling completed 1-16-80	3 2			Perf. top
Date Shot	Liners Used			Perf. top
Open Flow /10ths Water in Inch	Attach copy of a CASING CEMI Amount of ceme Name of Service	ENTED 20'' ent used (bags)	size 245 250 sks	No. Ft. 9-13-79 Date
Oil bbls., 1st 24 hrs.	COAL WAS E	NCOUNTERE	D AT180_	FEETINCHES
WELL ACIDIZED (DETAILS) WELL FRACTURED (DETAILS)	206 FEE	TN		FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow	or	r bbls.)Not	Treated
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ROCK PRESSURE AFTER TREATMENT.

Fresh Water 20! Depth_ Producing Sand... Oil, Gas or Water Hard or Top Depth Formation Color Bottom Remarks 0 20 Sand 20 60 Shale 60 100 Sand Shale 100 145 Sand 145 155 Shale 155 180 Coal 180 182 Shale 182 204 Coal 204 206 Shale 206 764 Sand 764 795 Shale 795 860 Sand 860 900 Shale 900 1035 Salt Sand 1035 1195 Shale 1195 1215 Sand 1215 1225 1225 Shale 1260 Sand 1260 1350 Shale 1350 1370 Sand 1370 1390 JUN13 1980 Shale 1390 1415 Sand 1510 1415 OIL & GAS DIVISION Shale 1510 1545 Sand 1545 1565 DEPT. OF MINES Shale 1565 1595 Sand 1595 1615 UUL 1 6 1980 Shale 1615 1725 Maxon 1725 1770

rmation	Color	Hard or Soft	Top 15	Bottom	Oil, Gas or Water	Depth Found	Remarks
nd ttle Lime g Lime jun Sand ale nd Weir ale ir ale ren			1770 1800 1885 2053 2075 2158 2178 2255 2480 2500 2600	1800 1885 2053 2075 2158 2178 2255 2480 2500 2600 2611			
ale			2000				
					13-3/8" cemer Haliburton li Class-A on 9- 9-5/8" cement 50/50 posimix on 12-11-79.	-23-79. ced using 470	d 200 sacks
				l .	7" cemented uposimix on 12		alen jakon jakon ja 1980 – Ordebo eri 1988 _{jako} eskala 1980 – Ogerski del
	A CONTINUE OF THE CONTINUE OF				Date	Onne 1	2 198

APPROVED By Dir Technical man

Miss v

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

ite	July	-2	,

Operator's		
t planta on in	20650	T

[08-78]	OTL AN	D GAS WELL PERI	MIT APPLICATION	Well No.	20659-T
		e and will thin	WE ATTAICRIT		47 - 039-3462 State County Por
WELL TYPE: 01	11/ Gas <u>X</u> /				State County Poi
(1	f "Gas", Production X /	Underground	storage/	/ Deep X / Sh	211ow()
LOCATION: E1	evation: 1241.79'	Watershed:	Campbells Cr	reek	
Di	strict: Malden	County: Kar	nawha	Quadrangle: Mammo	oth
ELL OPERATOR	Columbia Gas Transmiss	ion Corp.	DEPTOMATOR	our John D. Henri	2
	P.O. Box 1273			John R. Henr	iing
	Charleston, WV 25325		Adaress	P.O. Box 1273	25205
· · · · · · · · · · · · · · · · · · ·	Manager and the second			Charleston, WV	25325
DIL & GAS ROYALTY OWNER	Sally D. Todd		GOLL OPERATOR	n Valloy Camp Can	1. Cammana
	c/o Kanawha Valley Ban	k		RValley Camp Coa	
	Charleston, WV 25301	N.	Address 	700 Westgate Tov	
Acreage			COAL OWER/O	Cleveland, Ohio	
	Sally D. Todd) WITH DECLARATION	ON RECORD:
	c/o Kanawha Valley Ban	k	Name <u>Sal</u>		lov Dank
	Charleston, WV 25301		Address	c/o Kanawha Vall	
മേമലം നിര	31141763 40113 141 23301			Charleston, WV	25301
TELD SALE (IF			Name		
iame	Sundry (C.		Address		
Àddress		Andrew Andrews			
MUGLOSS		tendengalaman and all resident control and a second and a		WITH DECLARATION OF	,
	ECTOR TO BE NOTIFIED		***************************************	y Camp Coal Compa	
ame <u>Martin</u>			Address	700 Westgate Tow	
	P. 0. Box 554			Cleveland, Ohio	44101
	Clendenin, WV 25045				
	STERRORITING NV 25045		· ·		
The	undersigned well operator	is ontitled to	operate for a	oil or gas purnoses	at the whove
cc libn under	a deed / lease X	_/ other cont	ract/ da	ated <u>January 14</u>	_, 19 28 , to the
	ll operator from				
If soid decd,	lease, or other contract	has been recor	ded:]-		
orded on .	, 19, in	the office of	the Clerk of	the County Commiss	ton of Kanawha
	irginia, in <u>Deed</u>				
	WORK: Drill X / Drill d				الله الله الله الله الله الله الله الله
	Plug off old format	•			
	Other physical chan	ge in well (sp	ecify)	JUL	- 3 1979
•	planned as shown	on the work or	der on the rev	Oll & Oll & orrse side hard	GAS DIVISION ——
The T	thove named coal operator,	coul owner(s)	, and conf les	DEF :. ware are hereby not	ified that my
•	wish to make or are requi		•		
•	Theen (15) days after	*			•
	es of this Permit Applicat				
	mail or delivered by hand				
	ne day of the mailing or d			. •	
	st Vincinia.		*		
The Section of the Se	the second of the second control of the seco	. •			
TOPHAS TO	SI DIRECTLY TO:		***		
ani ve sea c	DIE AND GAS		COLUMBIA GAS	Printed to the Control of the Contro	PORATION
.communication 615 Was Engage	DA TOMBIGGION A STREET BAST A COLOR			्र सं <mark>बोधि Operator</mark> भूगोर्	antagan Masakan dari dari dari dari dari dari dari dari
CARDESTO FIRM	THE RESERVE	region was was to the			

irector, Expioration & Development

PROPOSED WORK ORDER

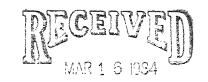
THIS IS AN ESTIMATE ONLY:

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

DRILLING CON	TRACTO	R (IF	KNOWN)		DELTA	DRILLING CO	MPANY		
				Addre	ess	P. O. Box 78	-	• •	
					Anthorn	Indiana, Pen	nsylvania	15701	
GEOLOGICAL T									
Estimat	ed dep	th of	complet	ed we	11; _	10,000	feet	Rotary X / 5	Cable tools/
Approxi	mate wa	ater s	trata d	epths	: Fr	esh, 70 fe	ret; salt,		
Approxi	mate c	oal se	am dept	hs:	170'	- 210' Ts	coal being mi	ned in the area	, X
CASING AND T									
CASING OR TUBING TYPE			IFICATI Weight		8	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
		Grade	per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic Sect)	
		H-40	1	X		250'		To surface	Kinds
Fresh water	13-3/8	K-55	61	Х		2600'		Io surface	
Coal							-	-	Sines
Intermediate				X		6500'			
Production	4-1/2	N-80	11.6	X		10,000'			Depths set
Tubing									
Liners		·		<u> </u>					Perforations:
									Tor Botton
]]			<u> </u>	
applic previo the co 200 fe where is not	cable tously rensent et of A Sractul B Drovin The W	o the prequire the presentations because the constitutions are constitutions and constitutions are constitutions and constitutions are constitutions and constitutions are constitutions and constitutions are constitutions are constitutions and constitutions are constitutions and constitutions are constitutional constitutions.	reclament the seed by Corposed to Formula in Figure 1 to 1 t	oy action ine wide some liver FOSTE corn locat	required to the second of the	ired by Code S the fee requires a from the s I not be required the second the	in-2, (tri) F 22-4-12b an ed by Code Sowner of any	water well or s	amotion Plan", , (iv) unless (n) if amplituding decling victors
	~	illin				nit shall expire if			· · ·
٥	peration	s have	not comm	nenced	ру	3-19-80			
ear the new ear side was little upo new view has upon an	Deput	1610 Direc	for - Oil	Gas	Divisio	วก	* Note the time to the time that the time to the time time to the time time time time time time time tim	was the first the late this day the first has also the part and the	The last may have good good give good then done you you want may have done you again you.
, Ur	follo coal l	ving v essee	oaiver i who ha	nust.	he dor orded	upleted by the a declaration (15) days of r	under Code	or and by any c \$ 22-4-20, if t of:	oul owner he permit
well location the work prop	the cosed t	well 1	location location	n has this	well been locat	added to the	a mine map emine map. The well of	xists which dov he undersigned :	doal under this well ers the area of the has no objection to plied with all
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ite:			. 19	· ·					
		**							
				9-25 2-25		Ву			

FORM OG-8

STATE OF WEST VIRGINIA DEPARTMENT OF MINES



OIL AND GAS WELLS DIVISION

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE

CIL & GAS DIVISION

Permit No. 47-039-3462-P

AFFIDAVIT OF PLUGGING AND FILLING WELDEPT. OF MINES

	dd	Columbia Gas Trans	smission corp.
c/o Kanawha	rerator or owner Valley Bank	NAME OF WELL O	
Charleston,	WV 25301	P. O. Box 1273, Cl	
		3-12	19 84
COAL OF	ERATOR OR OWNER	WELL AND LO Malden	
	ADDRESS		District
Sally D. To	dd r property owner	Kanawha	County
		Well No. 20659-T	
	ADDRESS	Sally D. Todd	173
	26		Farm
STATE INSPECTOR S	SUPERVISING PLUGGINGMa		
STATE OF WEST	AFFID VIRGINIA)	DAVIT	
	ss:		
County of Kanaw	•		
<u>Charles</u>	Fordyce orn according to law depose a	and Larry Friend	7 · 17 7 A
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
plugging and filling	oil and gas wells and were emporticipated in the work of plus	ployed by Columbia Gas	Transmission
was commenced on and filled in the following	the 16 day of Jana	$\frac{\text{uary}}{\text{19}}$, $\frac{80}{\text{19}}$, and that t	the well was plugged
AND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING
	FILLING MATERIAL		
FORMATION		SIZE & KIND	CSG CSG PULLED LEFT IN
	Cement 9980'-880		
	Plug set @ 4788 *	7"	4702 421
'	Plug set @ 4698'	9-5/8"	2313 426
	Cement 2300'-1900'		
	Cement 2300'-1900' Plug set @ 100'		
	Cement 2300'-1900'	се	
	Cement 2300'-1900' Plug set @ 100'	ce	
	Cement 2300'-1900' Plug set @ 100'	ce	
	Cement 2300'-1900' Plug set @ 100'	ce	
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	Cement 2300'-1900' Plug set @ 100'	ce	
	Cement 2300'-1900' Plug set @ 100'	ce	
COAL SEAMS	Cement 2300'-1900' Plug set @ 100'		ON OF MONUMENT
	Cement 2300'-1900' Plug set @ 100'	DESCRIPTION	on of Monument ent as prescrib
E)	Cement 2300'-1900' Plug set @ 100'	DESCRIPTION	
E)	Cement 2300'-1900' Plug set @ 100'	DESCRIPTION Erect monume	
E)	Cement 2300'-1900' Plug set @ 100'	DESCRIPTION Erect monume	
(E) (E)	Cement 2300'-1900' Pluq set @ 100' Cement 100' - surface of plugging and filling said	DESCRIPTION Erect monume by law.	ent as prescrib
and that the work	Cement 2300'-1900' Plug set @ 100' Cement 100' - surface	DESCRIPTION Erect monume by law.	ent as prescrib
and that the work March And further de	of plugging and filling said , 19 80. conents saith not.	DESCRIPTION Erect monume by law. well was completed on the Charles forder for the Charles forder for the Charles forder for the Charles forder for the Charles for the Charle	ent as prescrib
e) e) e) and that the work March And further de	of plugging and filling said , 19 80.	DESCRIPTION Erect monume by law. well was completed on the Charles forder for the Charles forder for the Charles forder for the Charles forder for the Charles for the Charle	ent as prescrib
and that the work March And further dep	Cement 2300'-1900' Pluq set @ 100' Cement 100' - surface of plugging and filling said y, 1980. conents saith not. ubscribed before me this //	DESCRIPTION Erect monume by law. well was completed on the Charles forder for the Charles forder for the Charles forder for the Charles forder for the Charles for the Charle	11 day of
and that the work March And further de	Cement 2300'-1900' Pluq set @ 100' Cement 100' - surface of plugging and filling said y, 1980. conents saith not. ubscribed before me this //	DESCRIPTION Erect monume by law. well was completed on the Charles forder day of January Arry Arr	ent as prescrib