



IV-35 (Rev 8-81)

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Pepariment of Mines Gil und Gas Pivision

Date	Augu	st 13	, 19	86	······································
Opera					•
Well		214	45-T	<u> </u>	
Farm_	Doll	y Eva	ns		
API N	o. 47	<b>-</b> ()	23	****	0012

WEIL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou		e Disposal e/ Deep	/ X / Sha	llow/)
LOCATION: Elevation: 2680 Watershed St	ar kun	Osadranale	Black Bi	rd Knob
District: Union County Gra	nt	Quadrangre	Diuck o	Marie Control of the
in in Comparation				_
COMPANY Columbia Gas Transmission Corporation	Icacina	Used in	Teft	Cement
ADDRESS P. O. Box 1273, Charleston, WV 25325	Casing Tubing	1		fill up Cu. ft.
DESIGNATED AGENT Robert C. Weidner.	Size	DITTI		
ADDRESS P. O. Box 1273, Charleston, WV 25325	20-16			energing (New August 1986)
SURFACE CWNER Dolly Evans, etal	Cond.		2.0	
ADDRESS Rt. 1, Maysville, WV 26833	13-10"	30	30	-
MINERAL RIGHTS OWNER As above	9 5/8	2027	2027	923
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Phillip	7			
Tracy ADDRESS Elkins, WV	5 1/2	8628	8628	786
PERMIT ISSUED 12-2-85	4 1/2			
DRILLING COMMENCED 1-25-86	3			On RTTS
DRILLING COMPLETED 3-12-86	2	7873		Tool
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Oriskany San	ndstone	Dej	oth 8	650 feet
Depth of completed well 8650 feet	Rotary	<u>X</u> / Cab	le T∞ls_	
Water strata depth: Fresh 620 feet;	Salt	fee	t	
Coal seam depths: N/A	Is coa	l being mi	ned in th	ne area?
OPEN FICH DATA				
Producing formation Oriskany	P	ay zone de	pth_8400	<u>-8469</u> <b>feet</b>
Case Initial open flow 3334 Mcf/d	Oil: I	nitial ope	u irom	bor/u
Final open flow 7700 Mcf/d	Ŧ	inal open	flow	Bbl/d
Time of open flow between ini	tial and	final test	s N/A	hours
Static rock pressure 3263 psig(surfa	ice measur	ement) aft	er 72 h	ours shut in
(If applicable due to multiple completion				
Second producing formation	F	ay zone de	epth	feet
Gas: Initial open flow Mcf/d	Oil:	Initial ope	en flow_	Bbl/d
Final open flowMcf/d	Oil: 1	inal open	flow	Bbl/d
Time of open flow between in	itial and	final tes	ts	hours
Static rock pressurepsig(surfa	ce measur	ement) aft	erl	gurs shut in
			·	ve 20 mm reverse side

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

Perforated 1 shot per foot w/ .48 expendable shots at 8400'-8424' (13 shots) 8436'-8459' (8 shots) 8464'-8469' (6 shots)

Broke down formation with 2500 gallons 15% FE-acid through RTTS tool.

## WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Hampshire - Soft Gray	0	200	Little water
Red Rock - Soft Red	200	300	
Shale - Soft Brown	300	700	l" stream of fresh water
Sand - Hard Gray	700	1000	
Foreknobs - Silty Sand	1000	3080	
Scheer - Dark Gray Sandy Shale	3080	3700	
Shale - Soft Gray	3700	4800	
Shale - Gray Silty	4800	5910	
Brallier - Shale	5910	7150	
Harrell - Shale	7150	7400	
Tully - Limestone	7400	7420	
Shale	7420	7920	
Upper Marcellus - Shale	7920	8030	
Purcell - Limestone	8030	8050	*
Lower Marcellus - Shale	8050	8176	Gas at 8405' 3340 MCFD
Needmore Shale	8176	8282	
Oriskany - Sandstone	8282	8485	
Helderberg - Limestone	8485	8650 T	T.D.

(Attach separate sheets as necessary)

Attach separate sheets as necessary,	ra de la companya della companya del
COLUMBIA GAS TRANSMISSION CORPORATION	
Well Operator	
By: Rade for	
Date: 8-/3-8(	

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 encountered in the drilling of a well."



1)	Date:	Nov	emb	e	r	1	2	, ľ́3	, 2	35	)
21	Operator's		~ ~								

Well No.\_

21445

3) API Well No. 47
State

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY					X			v	Livie on or oil &
5) LOCATIO	(1) Cl rel (3) (M/	estion:	Production 26	731	/		Star Run	/ Deep <u>X</u>	FINE WE
J) LOCATIO			Un		Lang Lang	County:		Quadrangle	Black had built
6) WELLOP						10450	DESIGNATE	Quadrangle \_	oh E. Campbell
Addres	rwior_	P 0	Box 1	273	. تدرین شریبید		Address	P. O.	Box 1273
1366163			eston.		25325		Addiess		eston, WV 25325
8) OIL & GA			,		in the tented.		DRILLING C		escon, WV 20020
Name			d Elli						
Addres					Lane				
radu: co.			ont. W				Address	***************************************	
10) PROPOSE			Drill	V					V
iu) PROPOSE	) WELL V	VUKK:			_/ Drill			/ Stimulate	<u> </u>
							te new formation		
050100			Otner p	nysicai	Orickar	eli (specify)		· · · · · · · · · · · · · · · · · · ·	
11) GEOLOG	ICAL TAK	jel FOR	MATION	,	2376	•			
	ated depth o					feet			
									V
						ls coa	l being mined in th	area? Yes	/ NoX/
15) CASING	AND TUBII								
CASING OR TUBING TYPE		SPE	CIFICATION:   Weight	5		FOOTAGE IN	TERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	13-3/8	H	48#	<u>X</u>		90'	90'	To surface	Kinds
Fresh water								and the same of th	
Coal	9-5/8	K	36#	<u>X</u>		2000'	2000'	To surface	by rule 15.05
Intermediate								- Annual Control	1/
Production	5-1/2	N	17#	X		8376'	8376	500 SKS	ORDINAS RED BY
Tubing	2-3/8	N	4.7#	χ		8376'		A Commonweal Commonwea	RULE 1501
Lin									Perforations:
									Top Bottom
				vicina					
			-4		<u> </u>				
	····			***************************************	O.I	FFICE USE O	NLY		
		·	···		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	RILLING PER			
	4 = /	000							
Permit number_	4/-(	023-0	)UIZ						vember 25 <sup>19</sup> 85
								Da	
This permit cov	ering the we	ll operat	or and wel	l locati	on shown be	low is evidence o	f permission grant	ed to drill in accorda	nce with the pertinent legal re-
o. 8) Prior to th	ect to the co se constructi	niunnons an af ras	containeu Me Incetic	nerem :	and on the re	nermitted work	fication must be gi	ven to the District Oil	and Gas Inspector, (Refer to ntractor shall notify the proper
listrict oil and g	as inspector	24 hour	s before a	ctual pe	rmitted wor	k has commenced	.)	en operator or ms co.	incactor shall from y the proper
The permitted w	ork is as de	scribed is	the Notic	e and A	Application	nlat and reclama	tion plan subject :	o any modifications	and conditions specified on the
everse hereof.				c and ,	ippiiouii, j	print, wire 1 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	non pian, subject	o any mounteations	and conditions specified on the
Permit expires _	Nove	ember	<u>25,</u>	<u> 198</u>	7	unless well	work is commenced	prior to that date and	prosecuted with due diligence.
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Pondi	40000		22 1	<u> </u>		FINAN			
Bond	Agent	· h-	Plat:	Casi	.ng Fe	e WPCP	S&E	Other	
	ALD		141	m	21406	ood Mr	JIMUI	X /	
		·············			61	- Washington		2 , 1/ /	1
NOTE: Keep o	one copy of	this pern	nit posted	at the d	Irilling locati	on.	rector. Div	1	
Karloite janutumi suuri kunni ku								ision of Oil	and Gas File
		See	the revers	e side c	f the APPL	ICANT'S COPY	for instructions to	the well operator.	