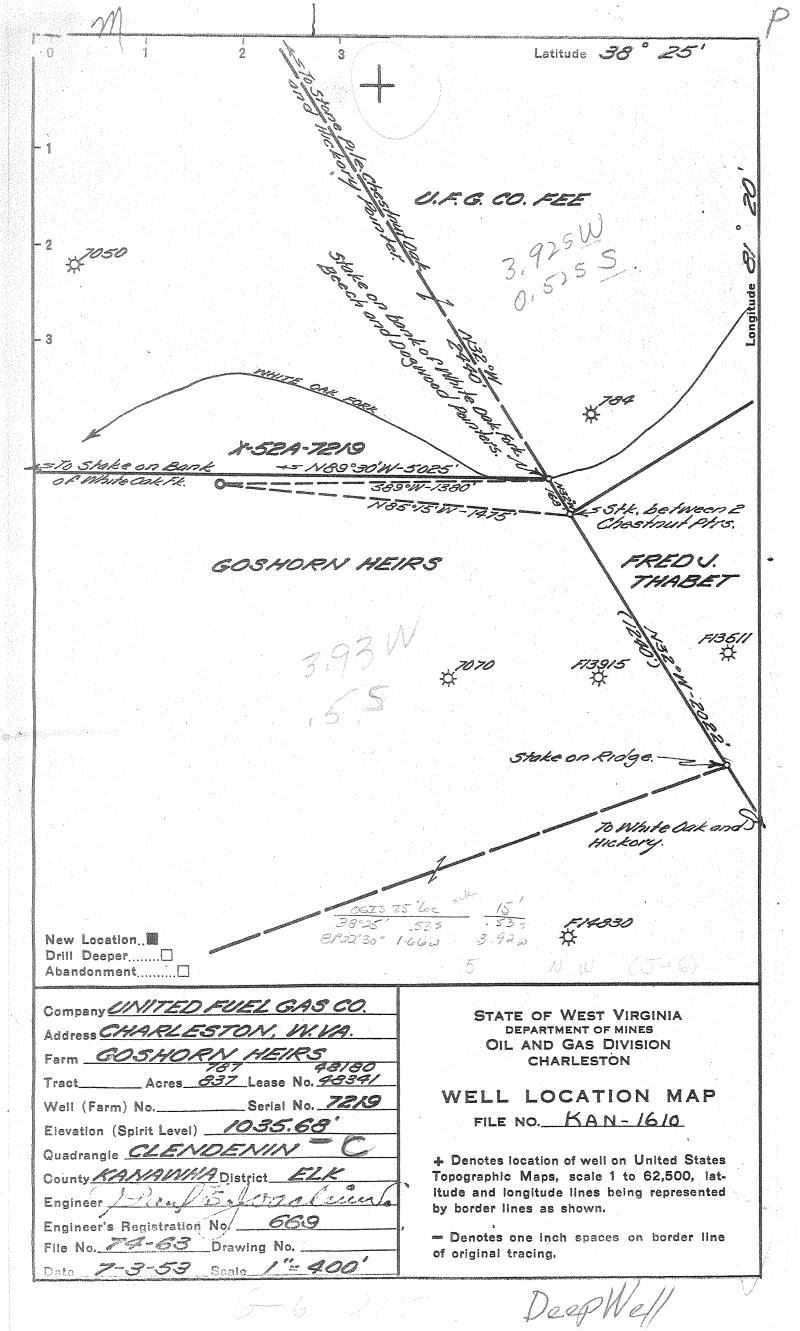


DEEP WELL



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Quadrangle Clendenin

WELL RECORD

Permit No_KAN-1610 Oil or Gas Well Gas Company UNITED FUEL GAS CO. P.O. Box 1273, Charleston 25, W.Va. Casing and Tubing Left in Well Used in Packers Farm Goshorn Heirs Location (waters) White Oak Fork Size Kind of Packer__ X-52-A-7219 Elev.1035.68 Well No____ Elk County Kanawha 10_-3/4" 15441 Size of___ The surface of tract is owned in fee by__ 20181 81/25/811 Mineral rights are owned by Goshorn and Goshorn, Agts. 6%_ Depth set___ for E.H. & F.W. Goshor Address Chas. W. Va. 52491 5 3/16/2 Drilling commenced 8-27-53 Perf. top_ Drilling completed 3-18-54 Perf. bottom____ Date Shot 3-22-54 From 5330 ro 5350 Perf. top____ Liners Used With 40 cts. Glyc. Perf. bottom___ Open Flow 80 /10ths Water in 7 ____Inch ____Inch CASING CEMENTED____SIZE____No. Ft.____ ______/10ths Merc. in____ 3,858,000 _Cu. Ft. 800 lbs. 72 hrs. Rock Pressure___ COAL WAS ENCOUNTERED AT 200 FEET 48 INCHES __bbls., 1st 24 hrs. 340 FEET 72 INCHES FEET Fresh water 1551 INCHES Salt water 1040 _INCHES__ Hard or Oil. Gas Depth Formation Color Top Bottom Remarks Soil 0 Water 155' Clay 5 15 15 Sand 95 Hole full water 1040' Slate 95 120 Sand 120 160 Show gas 16/70' Slate 160 200 "Coal 200 2042 Show gas 1810' 204 Sand 258 Slate 258 283 Show gas 2700' Lime 283 313 Slate 313 340 Gas 5331-5338' 50/10 W 2" 298 M 346 Coal 340 Gas 5338-5345' 20/10 W 7" 22# 1,929 M 346 415 Slate & Shells 670 415 670 Test before shot 20/10 W 7" 22# 1,929 M Sand 780 Slate 780 815 Shot 3-22-54 with 40 qts. Glyc.from 5330-5350 1140 -Salt Sand 815 Test 1 hr.after shot 84/10 W 7" 22# XXXX Slate & Shells 1140 1175 Sand 1175 1380 3,953 M Lime 1380 1385 Red Rock 1385 1388 FINAL OPEN FLOW - 3,858 M - Oriskany 72 Hr. R.P. 800# Lime 1388 1465 1465 1474 Slate Maxon Sand 1474 1505 Slate & Shells 1505 1580 Big Lime 1580 1750 Shut in 3-22-54 in $5\frac{1}{6}$ " Casing. Slate 1750 1760 1760 Injun Sand 1780 Weir Sand 1780 2000 Slate & Shells 2000 2310 Brown Shale 2310 2350 Slate & Shells 2350 4.000 RECEIVED Brown Shale 4000 4155 WAST VIRGINIA 4155 White Slate 4660 Brown Shale 4660 5040 5040 White Slate 5130 3lack Shale 5130 5211 Corniferous Lime 5211 5323 riskany ____ 5323 5350 53501 'otal depth (Over)

5217

1036 4175 1036

4287

RECEIVED
WW Division of
Environmental Protection

039 1610W Issued 07/19/95

STATE OF WEST VIRGINIA OF OIL AND GAS JUN 22 1995 THENT OF

ves 07/19/97

	Per	mitting	WELL WOL	RK PERMIT	APPLICATIO	N	(in 150
l)	Well Office of	fall&Gas	Columbia	Gas Transm	ission Corpo	ration 10450) (t) 3/3
						3) Elev	
4)	Well type	e: (a) O	il_/	or Gas	<u>X</u> /		
		(b) I	f Gas: I	Production	/ Underg	round Storage	<u>X</u> /
			A	Deep	475	Shallow_	
					riskany Sand	is come	
	-			350			
					hs:1		
8)	Approxima	ate salt	water de	pths:	1	.040' (hole full)	
9)	Approxim	ate coal	seam dep	ths:	2	200-204', 340-346'	
10)	Does lan	d contain	coal se	ams tribut	ary to act	ive mine? Yes	5/ No_X/
11)	Proposed	Well Wor	k: Instal	l new wellhe	ad, cleanout	to TD and stimu	late.
12)			CASIN	G AND TUBI	NG PROGRAM	<u>1</u>	
TYPE		SE	ECIFICAT	IONS	FOOTAGE	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	13-3/8"		48#/Ft.		7'	
	h Water	8-5/8"		32#/Ft.		2029'	Cement to surface
Coal						To do	
						fronkerondo	
Intermediate Production		5-1/2"		15.5#/Ft.		5249	Cement to surface
Tubi							
Line							
PACK	ERS : Kir	nd					
		es oths set					
			or Diviso	on of Oil	and Gas Us	e Only	
A	b Fee(s) p		1	Work Permi	$\langle A \rangle$	clamation Fund	WPCP
Z)	Plat	D ww-9	$\overline{}$		Bond Bl	empet	Agen
· The	/	1	1	T		(Type)	

	RECEIVED	* \		May 26 1005	
Page 1 of	WY Division of Environmental Protection	1) 2)	Date:	May 26, 1995 's well number	
Form WW2-A (09/87)		2)	Operacor	7219	
ile Copy	JUN 22 1995	3.)	API Well	No: 47 - <u>039</u> - <u>1610</u>	
				State - County - Permit	
	Permitting		717 T) C) T S T S		
	OHICS OF OUR COL	STATE OF WEST OF ENERGY, DI	VIRGINIA OF	OII. AND GAS	
	DEPARIMENT	OF ENERGY, DI	4 1 D 1 O 14 O 1	OTE MID ONE	
	NOTICE AND	APPLICATION FO	OR A WELL	WORK PERMIT	
4) Surface	Owner(s) to b	oe served:		oal Operator:	
(a) Nam	e <u>James E. Bro</u>	wn, III, Trustee			
Address	One Valley Sonarleston,	quare W 25321	Address		
/b) Nam	Bank One, Tr	ustee	(b) Coal	Owner(s) with Declaration	
Address	b. O. Rox II	13		ames E. Brown, III, Trustee	
	Charleston.	WV 25324		One Valley Square	
(c) Nam	ne (NOTE: Last	will and		Charleston, WV 25324	
Address	<u>testament of</u>	<u> Ettie D. </u>		Bank One, Trustee P. O. Box 1113	
The state of the s	Goshorn, dec	eased)		Charleston, WV 25324	
6) Inspect	or Carlos W. Hi	velv		Lessee with Declaration	
	223 Pinch Ri				
	Elkview, WV		Address		
Telepho	ne (304)- <u>965</u>	6-6069			
	TO THE PERS	ON(S) NAMED AB	OVE TAKE	NOTICE THAT:	
Include				ntinuing contract or	
		the right to			
X Include	ed is the info	rmation requir	ed by Cha	pter 22B, Article 1,	
		of West Virgin			
				B of the <u>West Virginia Code</u> ion, a location plat, and	
l nave serve	d cobies of r	nis notice and des 1 through	applicat on th	e above named parties, by:	
		e (Affidavit a			
		(Postmarked po			
Pt	ablication (No	tice of Public	ation att	ached)	
			000 - 3	20 GGD 11 10 and I name	
I have	read and unde	rstand Chapter	22B and Sit issued	38 CSR 11-18, and I agree under this application.	
I cert	ifv under pena	ltv of law tha	t I have	personally examined and am	
familiar with the information submitted on this application form and all					
attachments,	, and that bas	ed on my inqui	ry of tho	se individuals immediately	
			on, I bel	ieve that the information	
	curate, and co		ant nenal	ties for submitting false	
				nd imprisonment.	
		Well Operator	Columbi	a Gas Transmission Corporation	
NOTARY PUBLIC	ARCHMA	By:			
PHYLLIS		Its:		- Well Services	
COLUMBIA GAS TRAIN ON BOX 1273 — CHERREL	. J.A. 11 7 1225 4	Address	P.O.B Charles	ox 1273 ton, WV 25325-1273	
MY COMMISSION EXPLA		Telephone	304-357		
ubscribed	and sworn befo		day of	June , 1995	
	(Ih.	11 /2:0	2)	V-5 D1:-	
My commissi	Shylles	no pue	<u> </u>	Notary Public	
ing commission	on evhires	- war come	<u> </u>		

State of West Virginia WV Division of Environmental Protection Division of Environmental Protection Section of Oil and Gas

MAR 27 1996

Well Operator's Report of Well Work

Permitting

Farm nandfice of BONNESS JAMES E. III Operator Well No.: 7219

LOCATION: Elevation: 1,035.68 Quadrangle: BLUE CREEK

District: ELK

County: KANAWHA

Latitude: 2700 Feet South of 38 Deg. 25Min. Sec.

Longitude 8600 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION

P.O. BOX 1273

CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY

Permit Issued:

07/19/95 9-20-95

Well work Commenced:

Well work Completed: Verbal Plugging

Permission granted on: Rig Workover

Rotary — Cable — Rig (Total Depth (feet) 5398'

Fresh water depths (ft) 155

Salt water depths (ft) /040'

Is coal being mined in area (Y/N)?N Coal Depths (ft): 200'-204

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			
13%	7	一 フ′	name process son
85/8"	2029'	2029'	termina termina termina
5/2	5249'	5249	T.O.C. FROM C 15 AT 1360. Sput AT 140' is comented
on principles of the state of t			a special transmit to
			*

OPEN FLOW DATA

. \$

· .	Producing formation ORISKANY SANDITIME Pay zone depth (ft)	532 3-5 35
	Gas: Initial open flow * MCF/d Oil: Initial open flow	Bbl/∂
	Final open flow — MCF/d Final open flow —	Bbl/
	Time of open flow between initial and final tests —	Hour
	Static rock Pressure 650 psig (surface pressure) after 24	Hous
K	STORAGE WELL - NO OPEN FLOW AVAILABLE	:
	Second producing formation Pay zone depth (ft)	
•	Gas: Initial open flow MCF/d Oil: Initial open flow	Bbl/
	Final open flow MCF/d Final open flow	Bbl∕∈
	Time of open flow between initial and final tests	Hours
	Static rock Pressure psig (surface pressure) after	Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	COLUMBIA GAS TRANSMISSION	CORP.	
	By: Inh V. M. Callet		
	Date: 3-26-96		

PHYSICAL CHANGE:

NO CASING PULLED DUE TO 5/2" CASING
BEING CEMENTED AT 160:

INSTALLED NEW WELLHEAD.

DRILLED NEW 43/4" HOLE FROM 5350' TO 5398' (ALL LIME)

2-2-96

FRACTURED ORISKANY SANOSTONE WY

25,600 # 20/40 SAND

475 bb/s BORAGEL FRAC FLUID

BREAKDOWN PRESSURE 1480 PSIG

AUG PRESSURE 1750 PSIG

TSID 3119 PSIG

5MIN SIP 1922 PSIG

10 MIN SIP 1400 PSIG