AH 6 %

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS , =

Revised 12-1-55

Poo	l Ballard			F	Formation Pictured Cliffs				County Ei o Arriba			
Ini	tialx		Annual_			Spec	cial		Date o	Test	9-1-65	
Com	pany Conti	nental O	il Comp	any		Lease	AXI Apa	che "A"	Wel	.1 No	9	
Unit A Sec. 10 Twp. 23N Rge. 5W Purchaser Southern Union Gas Company												
	ing 4 1/2" W											
						No	τ					
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at Reported Perf. To Gas Pay: From 2254' To 2289' L xG .670 -GL Bar. Press. 12 PSIA												
Producing Thru: Casing X Tubing Type Well Single Date of Completion: 8-29-65 Packer Reservoir Temp. Tested Through (Prover) (Chrokes Katherina) Packer Type Taps												
Date	e of Complet	ion:	8 -29-6 5		Packer	4/11	<u></u>	Reservo	oir Temp.			
						OBSERV	BD DATA	``)				
Test	ed Through	(Prover	·) (Gibb)	XEX X	XXXXXXXXXXXX	St.	Tubing		Type Tap	s		
	Flow D					O' Prubi		g Data	Casing D		1	
No.	(XDZXHEK)K			ess.	Diff.	_	ress	1	Press.	Temp.	Duration of Flow	
SI	Size	Size	ps	sig	h _w	°F.	psig	°F.	psig	°F∙	Hr.	
1.	2"	1/8				64	587 578		587 578	64	SI HOURS	
2 . 3.	2"	1/4 7/16	54 44			60	547 450	<u> </u>	545 440	60	1 HR	
4.	2"	5/8	28			63	332	 	284	61	1 HR 1 HR	
5.												
					Ti-	TOW CAT	CULATION	10				
	Coeffici	Coefficient Pressu						Gravity Compress. Rate of Flow			Rate of Flow	
No.	(21,-Hou	(24-Hour) 7/		h _w p _f psia		Factor		Factor	Factor		Q-MCFPD	
1.						Ft		Fg	F _{pv}		@ 15.025 psia	
2.	3418 1.4030				590 557	0.9962 1.0000		0.9463	1.064		202 785	
<u>ع</u> ۔	4.3997			╁╌╌	452	0.9990		0.9463	1.051		1976	
4.	8.3555			<u> </u>	296	0.997		0.9463	1.031		2406	
4. 5.												
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid .670 C Pw Measured (1-e-5) Pc 599 Pc 358,801												
No •	P _w	Pt ²	F _c Q		$(F_cQ)^2$	(F.	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	1	P _W	
1.	590			+				348,100	10,701		98.5	
1. 2.	559							312.481	46.320		93.3	
3.	462							213,444	145,357		77.1	
3. 4.	344				· · · · · · · · · · · · · · · · · · ·			118,336	240,465	-	57.4	
Absol COMPA ADDRI AGEN	lute Potenti ANY Conti ESS P. O. T and TITLE ESSED ANY	Box 162 E. B.	Dil Com 21. Dur Errett,	ango Dia	o, Color. strict T	est Engi	neer	.81	Ernell			
						REM/	CANI					

NMOCC(3) FOREMAN FILE

INSTRUCTIONS

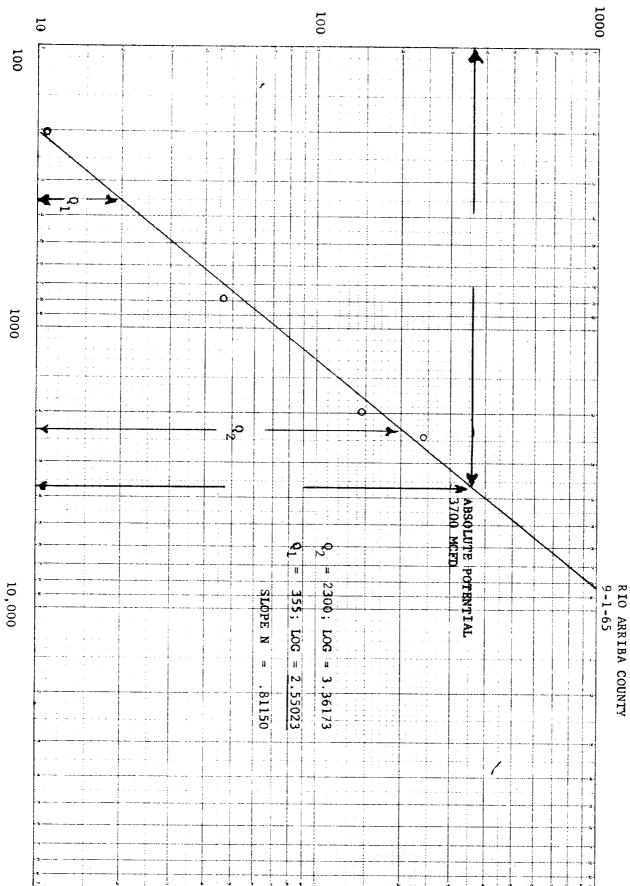
This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.



Q - MCFD - 15,025 PSIA

CONTINENTAL OIL COMPANY
AXI APACHE "A" NO. 9
BALLARD PICTURED CLIFFS
A-10, T23N, R5W
RIO ARRIBA COUNTY
9-1-65

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