MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool S. BLANC	0	Fo	rmation_	PICTUI	RED CLI	FFS	_County	RIO A	ARRIBA
Initial x	Annu	al		Spec	ial		_Date of ?	Te st	1-5-60
Company Arizona	Explorat	ions I	nc. I		Jicar	illa	Wel:	l No	н-9
Unit M S	ec. 32 Tw	m. 24N	Rge	e. 5W	Purc	haser S out	hern Un	ion Ga	as Company
Casing $5\frac{1}{2}$ W									
Tubing 1½" Wt. 2.4# I.D. Set at 2081 Perf. 2071 To 2081 Gas Pay: From 2068 To 2092 L 2080 xG 0.690 -GL 1435 Bar. Press. 12.0									
Producing Thru: Casing X Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual									
Date of Complet	ion: 12-17	7-59	Packer	r	 	Reservo	ir Temp		
				OBSERV	ED DATA				
Tested Through	(Frank)	Choke)	(Meksus)				Type Tap	s	
	Flow I	ata			Tubing	z Data	Casing D	ata	I
(Prover)	(Choke)	Press.				1 1	Press.	Temp.	Duration of Flow
No. (Line) Size	(Orifice) Size	psig	h _w	°F•	psig	°F.	psig	³F∙	Hr.
SI	3/4"			58	571		572 336	58	3 hours
1. 2.	3/4*	220			213			10	7 110015
3. 4.	<u> </u>			<u></u>					
5.								<u> </u>	
		·		FLOW CAL	CULATIO	NS	Company		Pate of Flow
No. Coefficient $\sqrt{h_W}$				Flow Temp. Factor		Factor	Facto	r	Q-MCFPD
			348	1.0019		0.9325		244	4501
1. 12.36 2. 3. 4. 5.									
4.									
201			DD	ESSURE (A COTTE AM	TONG			
			Pn				0 : 0		nunction Co.s.
Gas Liquid Hydro Gravity of Liqui	d Hydrocar	bons		cf/bbl.deg.		Speci	fic Gravi	ity Flo	arator Gas wing Fluid
$P_{c} = 584 \qquad P_{c}^{2} = 684 \qquad P_{c}^{2} = 68$									
	,			AC)F = (4	50L)(504 584	- 2-3482)	= 6526
P _w	Pt ²	F _c Q	$(F_cQ)^2$	· (I	$(cQ)^2$	P_w^2	$P_c^2 - P_w^2$	1	al. Pw P., Pc
Pt (psia)				(1	L-e-5)				P _w P _c
2.									
3. 4. 5.									
						- 0=	<u> </u>		
Absolute Potential: 6526 MCFPD; n 0.85 COMPANY Arizona Explorations Inc.									
ADDRESS 417 Meadows Building, Dallas 6, Texas AGENT and TITLE Virgil L. Stoabs, Engineer									
WITNESSED deorge Credicott									
COMPANY	Arizona i	MOTOLE	r TOUR	RE	MARKS	128	CFIME?	``.	
						/KL	ULIII.		

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 I Actual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

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

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