NEW MEXICO OIL CONSERVATION COM-ISSION

HOBBS OFFICE OCC MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

* .	
and the second second	
ELVI ENGINEER Form C-12	2
Revised 12-1-5	5

Pool _	_ Donas A			F	1956 O ormation	OT STA	No Bore	Brivers	_County_	lo	<u> </u>	
Initia	tialAnnual					Special				Test_6	-15 6	6-85-56
Compan	y Oalf	011 0	erpen	tion		Lease_	stiers "	<u> </u>	Wel	l No		
Unit (Unit Sec. 24 Twp. 28 Rge. 162 Purchaser Gulf Oll Corp.											
Casing	10.75 W	it. 45.	5 _1	.D. 9. 9	Se	t at_ 30	90 Per	rf Open B	de	То		
Tubing 2.375Wt. 4.7 I.D. 1.995 Set at 30 1 74 Perf. To												
Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Parts of Completion: Parker Parker												
Date o	Date of Completion: 10-23-29 Packer Reservoir Temp. OBSERVED DATA											
							ED DATA		m m.		•	
Tested	Tested Through Type Taps Type Taps											
	(Prover)		low Da		. Diff.	Temp.		Data Temp.	Casing I		1	Duration
No.	(Line) Size	(Orif	ice)	psig		o_{F}	ł	°F.	psig	o _F .		of Flow Hr.
SI	5126	†					10/1.3		1071.0			72
1.	1	1.5			207	60	1437.4		997.0	 	 	<u>n</u>
2. 3.		1.5		719.0	14.0	6	997.0	المنتخف مسيهرة بيرانها	765.0	 	┼	22
	-	1.5		730.0	19.0	60	755.0		755.0	1		24
4. 5.												
						RIOW CAI	CULATION	S				
	Coefficient			Pi		Flow	Temp.	Gravity Compress.				of Flow
No.	(2)								Factor		Q-MCFPD @ 15.025 psia	
		(24-Hour)		$p_{\mathbf{f}}$	psia		t	Fg	Fpv			
1.	13.77		\$1.73 713.2 1.000 81.00 933.2 1.000			.9315 1.085			110			
2.	13.77			107.57 723.				.7315				
3°	13.77		117.		723.2			.7315	1.0		146	
5.												
					PR	ESSURE C	ALCU ATI	ONS				
3 Tia	dal Hendana	aa mhaw	Doti	•		af/bbl		Speci	ific Gravi	ity Sena	arator	. Gas .690
Jas Liq Travit.v	ula Hyaro of Liqui	d Hydr	rocarb	ons		cf/bbl. Speci			ific Gravity Separator Gas ific Gravity Flowing Fluid PC 117			
F. Pric	tion he	ملطنهد	(1-e ^{-s})			_	P.c	1064.8	_P ²	11/4	
V												
T P	w								<u> </u>			
No.	W	P ₊ ²	2 F	e	$(F_cQ)^2$	(F	$(c_0)^2$	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	al.	Pw
P	t (psia)	L_				(1	L-e-s)]	Pw	P _W P _C
1. 2.								1090	155			- 53
	976-2							757	n	-	- i -	70.2
3. 4.	966-2							937	237	 		9.3
5.									I i			
Absolute Potential: 5,500 MCFPD; n .75												
COMPANY												
AGENT and TITLE St. L. Smith												
AGENT WITNES			11.0s.	gm								
COMPAN												
						RE	MARKS					

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 (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
- Pt 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.
- Fg 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_{+} .