well file C-122

Form C-122
Revised 9-1-65

MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-13-73	
Company: Phillips Petroleum Company		Connection: Not connected			
Pool: Cabin Lake Morrow		Formation: Morrow		Unit	
Completion Date: 10-13-73	Total Depth: 13,800'	Plug Back TD: 13,700'	Elevation: 3196' Gr 3217' DF	Farm or Lease Name: James-C	
Csg. Size: 5-1/2" / Wt.: 20 / d: 5 / Set At: 13,792'		Perforations: From 13,124' To 13,569'		Well No.: 1	
Tbg. Size: 2-7/8" / Wt.: 6.5 / d: 2.44 / Set At: 13,030'		Perforations: From To		Unit: L / Sec.: 35 / Twp.: 21-S / Rge.: 30-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 13,030'		County: Eddy	
Producing Thru: tubing	Reservoir Temp. °F: 193 @ 13,800'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Meter Run	Taps
13030	13030	.599	1.0	.79	---	OWT--3"	

NO.	Prover Line Size	X	Orifice Size	Press.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							4400	58	Packer		2 wks.
1.	3.00	x	2.00	8		-8	2669	68			1 hr.
2.	3.00	x	2.00	11		47	961	71			1 hr.
3.	3.00	x	2.00	7		78	433	76			1 hr.
4.	3.00	x	2.00	8		79	246	79			1 hr.
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure HG P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1150			1.0408*	1.000	1.018	1218
2.	1369			1.0127	1.000	1.013	1404
3.	1070			.9831	1.000	1.011	1063
4.	1150			.9822	1.000	1.011	1142
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.2	452	1.26	.965
2.	.2	507	1.42	.975
3.	.2	538	1.50	.979
4.	.2	539	1.50	.979
5.				

Gas Liquid Hydrocarbon Ratio --- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons --- Deg.
Specific Gravity Separator Gas .599 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature 358 R ____ R

P_c 4413.2 P_c^2 19476

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	7194	2686.4	7217	12259
2	949	987.5	975	18501
3	199	463.5	215	19261
4	67	293.4	86	19390
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{19476}{12259}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1535

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Absolute Open Flow 1535 Mcfd @ 15.025 | Angle of Slope θ 63.5 | Slope, n .500

Remarks: * 20° used. Produced 11 BW on 3rd rate and 15 BW on 4th rate. Calculations made by electronic calculator.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	D. E. Simpson	D. E. Simpson	