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NEW MEXICO OIL CONSERVATION COMMISSION

O. C. C.
ARTESIA, OFFICE Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Indian Basin Upper Penn Formation Cisco Canyon County Eddy
Initial X Annual _____ Special _____ Date of Test 1-10-66
Company Pan American Petroleum Corp. Lease HOC Federal Gas COM Well No. 1
Unit F Sec. 13 Twp. 22S Rge. 23E Purchaser To be Southern Union Gas Company
Casing 5 1/2" Wt. 14-17# I.D. 4.892 Set at 7897' Perf. 7702 To 7798
Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 7670' Perf. Open Ended To _____
Gas Pay: From 7702 To 7798 L 7670 xG 0.650 -GL 4,986 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-30-65 Packer 7638' Reservoir Temp. 131°F

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2325				
1.	4.000	2.000	600	7.0	71	600	72	Pkr.	Pkr.	21
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	25.58	65.57	613.2	0.9896	0.9608	1.066	1,700
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Not Available cf/bbl.
Gravity of Liquid Hydrocarbons Not Available deg.
F_c 9.936 (1-e^{-s}) 0.290

Specific Gravity Separator Gas .650
* Specific Gravity Flowing Fluid .650
P_c 2338.2 P_c² 5467.2

*No gas-liquid ratio obtained

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	613.2	376.01	16.891	285.31	82.740	458.75	5008.4	677.3	0.2897
2.									
3.									
4.									
5.									

Absolute Potential: 1.776 MCFPD; n 0.50000

COMPANY Pan American Petroleum Corporation

ADDRESS P. O. Box 68, Hobbs, New Mexico

AGENT and TITLE J. W. Meek, Area Engineer

WITNESSED M. L. Claiborne

COMPANY Pan American Petroleum Corporation

REMARKS

HOC No.1 was tested with varying pressures with little or no change in rate. Therefore, a minimum slope of 0.5 was assumed for back pressure curve.

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