

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

0-122
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Form C-122
Revised 9-1-65

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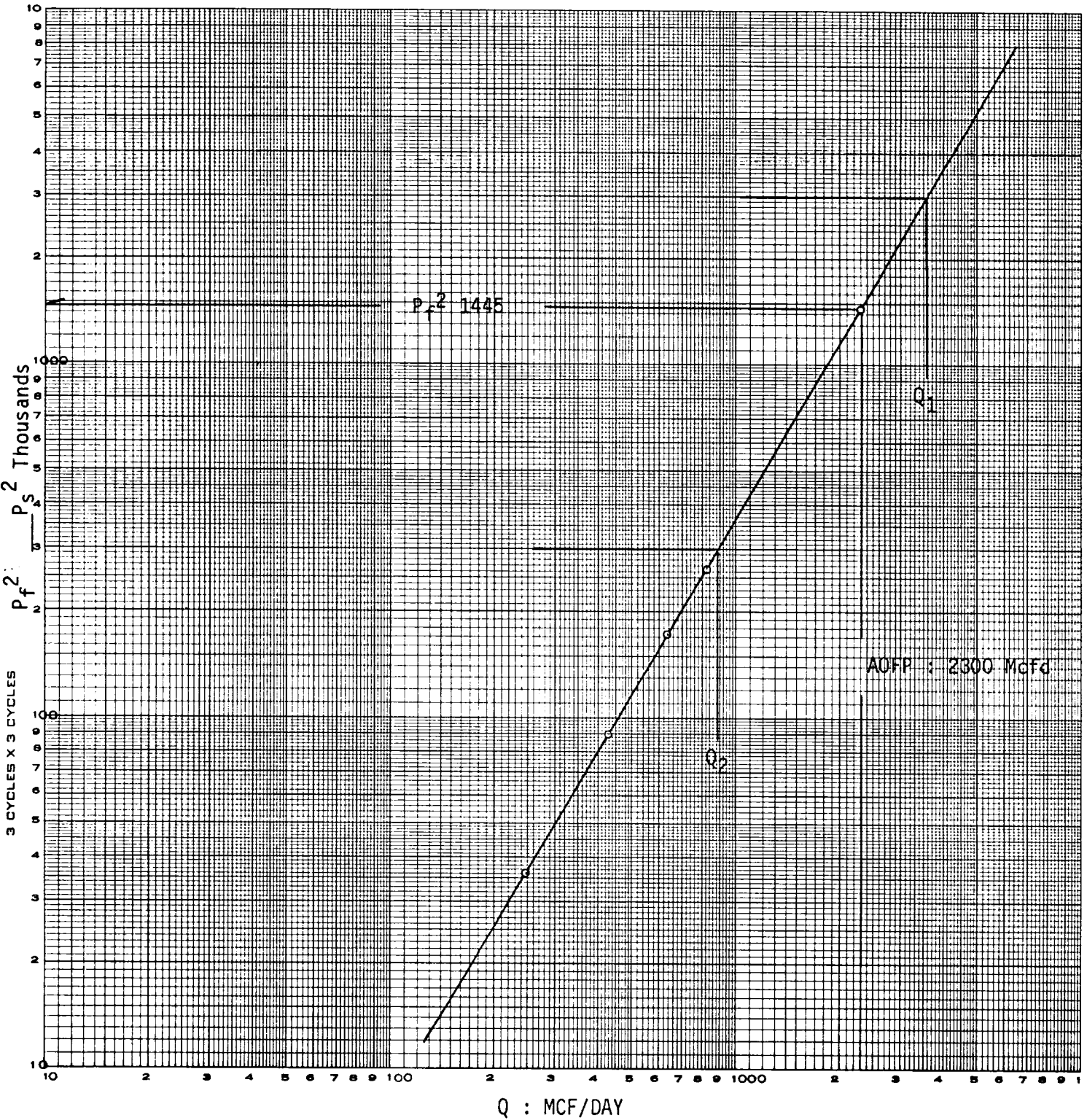
*M. Avalon upper Perm.
Avalon Morrow*

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special			Test Date 5-3-75		MAY 20 1975						
Company David Fasken			Connection El Paso Natural Gas Co.			O.C.C.					
Pool Undesignated Canyon - Avalon Morrow			Formation Canyon - Morrow Comingled		Unit ARTESIAN OFFICE						
Completion Date 3-26-75		Total Depth 11,170'		Plug Back TD 10,838'	Elevation 3198.9 Gr	Farm or Lease Name El Paso Federal					
Casing Size 5 1/2	Wt. 20# 17#	d 4.778 4.892	Set At 10993	Perforations: 9515 9542 From 10746 To 10832		Well No. 2					
Tubg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10600	Perforations: From To		Unit Sec. Twp. Rge. M 2 21S 26E					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual GG Down hole comingled			Packer Set At 10600'		County Eddy						
Producing Thru Tubing		Reservoir Temp. *F 176 @ 10400'	Mean Annual Temp. *F 70	Baro. Press. - P _a 13.2		State New Mexico					
L 10826	H 10826	G _g 0.600	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run X Flange					
FLOW DATA				TUBING DATA		CASING DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. L.10	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	Duration of Flow
SI	22.5 hrs.						923		Pkr		
1.	4"	x 1.250	435.700	1.2	82	892	70				60 min.
2.	4"	x 1.250	435.700	2.1	92	874	70				60 min.
3.	4"	x 1.250	435.700	3.1	92	846	70				60 min.
4.	4"	x 1.250	442.425	4.0	91	807	70				60 min.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	7.469	8.04	448.9	.9795	1.291	1.035	248.6				
2	7.469	14.07	448.9	.9706	1.291	1.032	429.7				
3	7.469	20.77	448.9	.9706	1.291	1.032	634.3				
4	7.469	27.00	455.6	.9715	1.291	1.033	826.2				
5											
NO.	P _r	Temp. *R	T _r	z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mcf/bbl.						
1	0.67	542	1.51	0.934	A.P.I. Gravity of Liquid Hydrocarbons <u>Dry Gas</u> Deg.						
2	0.67	552	1.54	0.939	Specific Gravity Separator Gas <u>0.600</u> X X X X X X X X						
3	0.67	552	1.54	0.939	Specific Gravity Flowing Fluid <u>X X X X X</u>						
4	0.68	551	1.54	0.938	Critical Pressure <u>671</u> P.S.I.A. P.S.I.A.						
5					Critical Temperature <u>358</u> R R						
NO.	P _r ²	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____						
1	1187.2	1409	36	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____							
2	1164.2	1355	90								
3	1128.2	1273	172								
4	1086.2	1180	265								
5											
Absolute Oper. Flow <u>2300</u> Mcfd @ 15.025					Angle of Slope @ <u>58° 37'</u>			Slope, n <u>0.610</u>			
Remarks: <u>BHP measured with Amerada RPG-3 Gauge</u> <u>Serial No. 10190N 0-4000 psi</u>											
Approved By Commission:			Conducted By: Tefteller, Inc.			Calculated By: F. Tefteller			Checked By:		

Company : David Fasken
 Well : El Paso Federal 2
 Field : Avalon
 County : Eddy
 State : New Mexico
 Date : May 3, 1975

EUGENE DIETZGEN CO.
 MADE IN U. S. A.

ND. 340R-L33 DIETZGEN GRAPH PAPER
 LOGARITHMIC
 3 CYCLES X 3 CYCLES



$Q_1 = 3600$; $\text{Log } Q_1 = 3.55630$
 $Q_2 = 890$; $\text{Log } Q_2 = 2.94939$
 $n = 0.60991$
 $\theta = 58^\circ 37'$

RECEIVED
REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

MAY 6 1975

THE CREATION OF A NEW POOL

O. E. C.
ARTESIA, OFFICE

TO: The Oil Conservation Commission
State of New Mexico

Date 5-5, 19 75

The DAVID FASKEN EL PASO FEDERAL
Name of Operator Name of Lease

2 Located 4196.5 feet from the North line and 660 feet
Well No.

from the West line of 2 21-S 26-E
Section Township Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-
with on form C-105, we hereby request that the Avalon Morrow

pool be extended to include the following described area lots 11, 12, 13 & 14 and the
SW/4 Section 2 T-21-S - R-26-E NMPM

or that a new pool be created to include the following described area.....

Suggested name:

DAVID FASKEN
Operator

Name of Producing Formation: Morrow*

James B. Henry
Representative

* to be commingled
w/Avalon Canyon pool
productive in some well holes