

NAME CHANGED:
NEW MEXICO OIL CONSERVATION COMMISSION FROM: PAN AMERICAN PETR. CORP.
TO: AMOCO PRODUCTION CO.
HOBBS OFFICE 600 EFFECTIVE: 2-1-71 Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates County Lea
Initial _____ Annual X Special _____ Date of Test 3-6 to 3-14-58
Company Pan American Petroleum Corp. Lease Myers "B" Well No. 11
Unit B Sec. 6 Twp. 24S Rge. 37E Purchaser Permian
Casing 7.0" Wt. 23.0# I.D. 6.366" Set at 3460' Perf. 2994' To 3230'
Tubing 2-1/2" Wt. 6.5# I.D. 2.441" Set at _____ Perf. _____ To _____
Gas Pay: From 2994' To 3230' L 2994' xG 0.640 -GL 1916' Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-11-52 Packer 3814 Reservoir Temp. _____

OBSERVED DATA

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

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								842.3		70-1/2 hr. SIP
1.	4	2.25	510.5	7.8	65			729.4		25-3/4 hrs.
2.	4	2.25	529.5	16.8	65			673.7		24 hrs.
3.	4	2.25	527.0	30.2	67			612.8		23-1/4 hrs.
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.	40.53	63.91	523.7	0.9952	0.9682	1.049	2618
2.	40.53	95.48	542.7	0.9952	0.9682	1.053	3926
3.	40.53	127.7	540.2	0.9933	0.9682	1.053	5241
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 0.865 (1-e^{-s}) 0.124
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 855.5 P_c 731.9

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.		551.5	2.265	5.130	0.6361	532.1	179.8	743.0	.87
2.		471.8	3.396	11.53	1.430	473.2	258.7	687.9	.80
3.		391.9	4.533	20.55	2.548	394.4	337.5	628.0	.73
4.									
5.									

Absolute Potential: 11,200 MCFPD; n 1.00 limited
COMPANY Pan American Petroleum Corporation
ADDRESS Box 66, Hobbs, New Mexico
AGENT and TITLE _____ Original Signed By: Field Engineer
WITNESSED _____
COMPANY _____

REMARKS

Only three points obtained due to the first point freezing off.

RECEIVED
OCT 1 1964
OIL AND GAS
COMMISSION
SANTA FE, N.M.

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 = 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

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

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