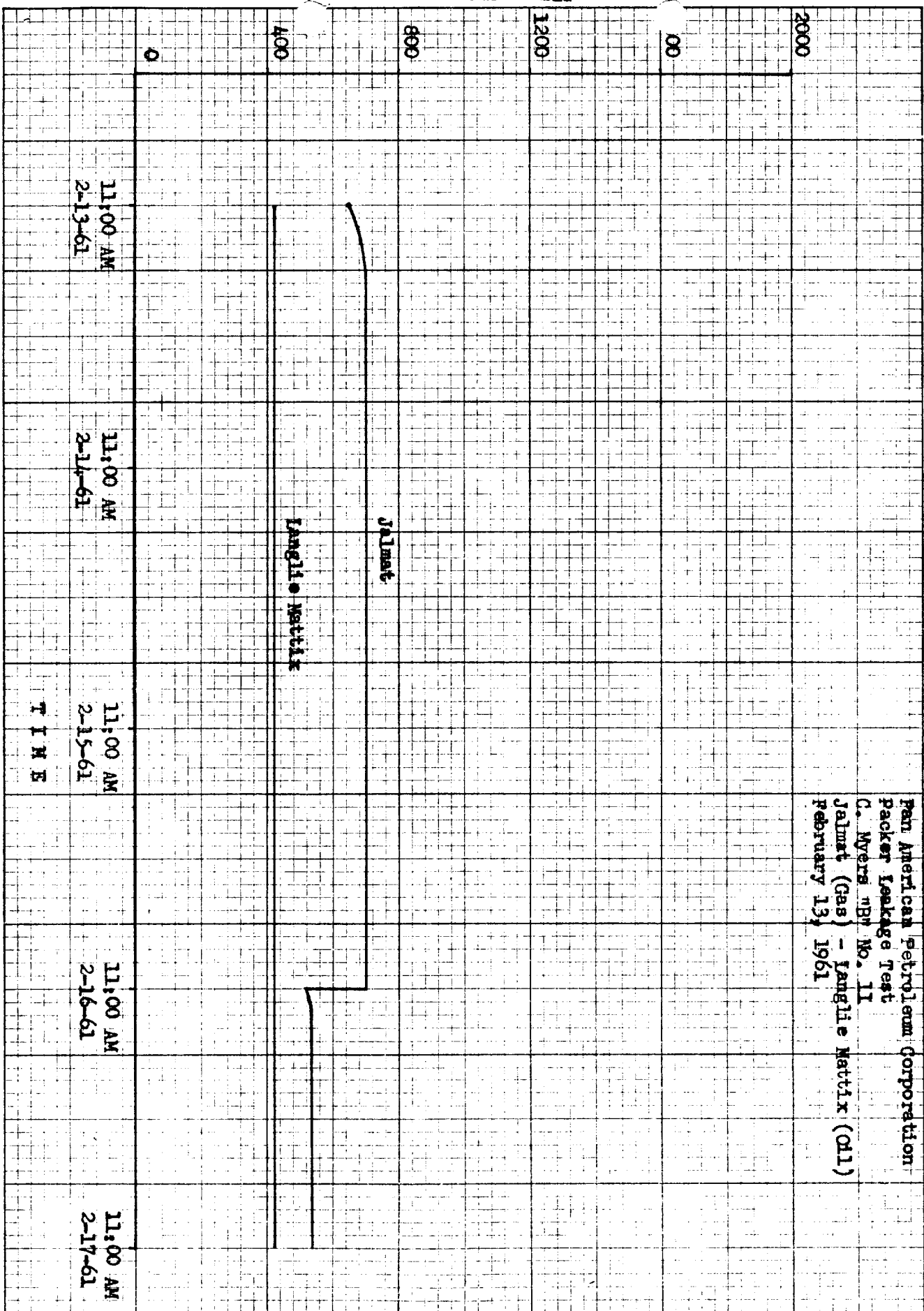


PRESSURE - PSIG



NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1960 MAY 3 AM 10 32

Pool Jalnet Formation Yates County LeeInitial _____ Annual _____ Special x Date of Test 4-7/15-60Company Pan American Petroleum Corp. Lease Meyers "B" Well No. 11Unit B Sec. 6 Twp. 24 Rge. 37 Purchaser Permian Basin Pipeline CompanyCasing 7" Wt. 23 I.D. 6.366 Set at 3460 Perf. 2994 To 3230Tubing 2-1/2 Wt. 6.5 I.D. 2.441 Set at 3418 Perf. - To -Gas Pay: From 2994 To 3230 L 2994 xG 0.645 -GL 1931 Bar.Press. 13.2Producing Thru: Casing x Tubing _____ Type Well Gas Oil Dual (Abandoned)Date of Completion: _____ Packer x Reservoir Temp. B.O. Dual

OBSERVED DATA

Tested Through (Prover) (Chase) (Meter) Type Taps Reel

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								755.3		72
1.	4.00	2.25	491.9	2.8	72			634.5		24
2.	4.00	2.25	509.3	5.1	71			629.0		24
3.	4.00	2.25	502.0	13.9	69			595.1		24
4.	4.00	2.25	494.0	22.0	69			558.8		24
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	37.60	505.1	0.9887	0.9645	1.046	1520
2.	40.53	51.62	522.5	0.9896	0.9645	1.048	2093
3.	40.53	84.62	513.2	0.9915	0.9645	1.049	3440
4.	40.53	105.6	507.2	0.9915	0.9645	1.048	4289
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 574.736 cf/bbl.
Gravity of Liquid Hydrocarbons 42.3 deg.
P_c 0.865 (1-e^{-s}) 0.124Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 768.5 P_c 590.6

No.	P _z 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.	647.7	419.5	1.315	1.729	0.2144	419.7	170.9	647.8	0.843
2.	642.2	412.4	1.810	3.276	0.4062	412.8	177.8	642.5	0.836
3.	602.3	370.0	2.976	8.856	1.098	371.1	219.5	609.2	0.793
4.	572.0	327.2	3.710	13.76	1.706	328.9	261.7	573.5	0.746
5.									

Absolute Potential: 9.680 MCFPD; n 1.00 LimitedCOMPANY Pan American Petroleum CorporationADDRESS Box 68 Original Signed By _____AGENT and TITLE E. M. MEEKWITNESSED R. L. WestCOMPANY Permian Basin Pipeline Company

REMARKS

Peer point alignment. Resulting slope in excess of 1.00.
Gravity of 1st Rate = 0.645 (1-e^{-s}); = 0.124
Mixture 2nd Rate = 0.652 = 0.126
3rd Rate = 0.652 = 0.126
4th Rate = 0.649 = 0.123

Special test as requested by the N.M. Oil Conservation Commission. Well will not be retested; therefore, this test is to be submitted to the Commission.

Flow Diagram 97-16

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 .