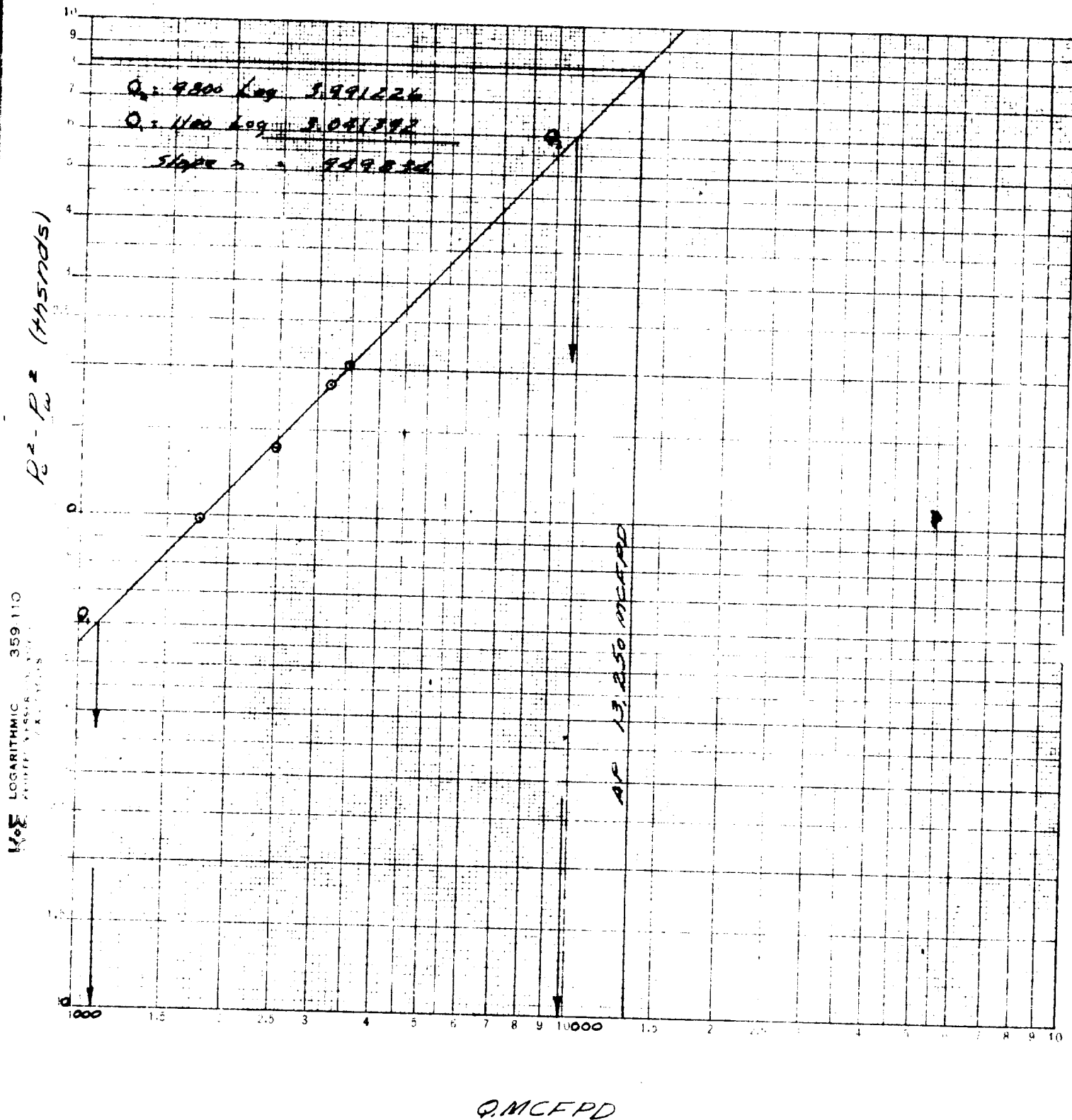


R. OLSEN C.L. Co.
 Mattie James #1
 Sec. 10-T22S-R36E Lea. N.M.
 10-19-56



NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates County Lea

Initial _____ Annual _____ Special X Date of Test 10-15/10-19-56

Company R. Olsen Oil Company Lease M. James Well No. 1

Unit G Sec. 10 Twp. 22 Rge. 36 Purchaser El Paso Natural Gas Company

Casing 7" Wt. 20.0 I.D. _____ Set at 3128 Perf. _____ To _____

Tubing 2" Wt. 4.7 I.D. _____ Set at 3480 Perf. _____ To _____

Gas Pay: From 3180 To 3494 L 3480 xG 0.665 -GL _____ Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single

Date of Completion: 3-29-1949 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXXXXXXXXX~~ (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(PROVER) (Line) Size	(ORIFICE) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						894		894		72
1.	4	1.500	827	4.3 ² 18.5	82	828		838		24
2.	4	1.500	792	6.2 ² 38.4	79	797		815		24
3.	4	1.500	745	8.25 ² 68.1	75	754		785		24
4.	4	1.500	726	9.15 ² 83.7	77	741		774		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.	13.99	124.63		.9795	.9498	1.079	1,750
2.	13.99	175.91		.9822	.9498	1.081	2,482
3.	13.99	227.14		.9859	.9498	1.073	3,193
4.	13.99	248.74		.9840	.9498	1.073	3,489
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c measured (1-e^{-s}) _____

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 907.2 P_c 823.0

No.	XXXX 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	XXXX xCol. XXXX	XXXX XXXX
1.	841.2	707.6				724.5	98.5		
2.	810.2	656.4				685.9	137.1		
3.	767.2	588.6				637.1	185.9		
4.	754.2	568.8				619.7	203.3		
5.									

Absolute Potential: 13,250 MCFPD; n .949

COMPANY R. Olsen Oil Company

ADDRESS 2805 Liberty Bank Building, Oklahoma City, Oklahoma

AGENT and TITLE Philip Randolph, Vice President

WITNESSED _____

COMPANY _____

REMARKS

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 .