NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliff County San Juan

Initial X Annual ____ Special ____ Date of Test 3/20/56

Company El Paso Natural Gas Company Lease Morris Well No. 4

Unit M Sec. 28 Twp. 30N Rge. 11W Purchaser El Paso Natural Gas Co.

Casing 7 Wt. ____ I.D. ____ Set at 2289 Perf. ____ To ____

Tubing 1½ Wt. ____ I.D. ____ Set at 2320 Perf. ____ To ____

Gas Pay: From 2289 To 2334 L ____ xG 0.635 -GL ____ Bar.Press. ____

Producing Thru: Casing X Tubing ____ Type Well ____
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: ____ Packer ____ Reservoir Temp. ____

OBSERVED DATA

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

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						639		639		
1.		3/4	(13)			13.5	60	(13)		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.	Flow not critical - choke pressure = 13 psig.						266
3.		(5.1" H_2O) Water manometer					
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
F_c ____ $(1-e^{-s})$ ____ P_c ____ P_c^2 ____

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 266 MCFPD; n 0.85
COMPANY El Paso Natural Gas Company
ADDRESS Box 997, Farmington, N.M.
AGENT and TITLE T. H. Grant, Gas Engineer
WITNESSED ____
COMPANY ____

REMARKS

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