

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Ballard Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 12/30/56
Company Western Natural Gas Company Lease Graham-Federal Well No. 24-1
Unit A Sec. 24 Twp. 25 Rge. 8 Purchaser El Paso Natural Gas Company
Casing 5 1/2 Wt. 13.7 I.D. 5.012 Set at 2318 Perf. 2198 To 2218
Tubing 1" Wt. 1.70 I.D. 1.049 Set at 2227 Perf. 2211 To 2226
Gas Pay: From 2195 To 2218 L 2211 xG 0.66 -GL 1459 Bar.Press. 12.0
Producing Thru: Casing X Tubing _____ Type Well Single Gas
Date of Completion: 12/20/56 Packer _____ Reservoir Temp. 93
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

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.	
1.		<u>3/4</u>	<u>422.5</u>			<u>634.7</u>	<u>60</u>	<u>634.4</u>		<u>3 Hrs.</u>
2.						<u>432.6</u>		<u>422.5</u>		
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.	<u>14.1605</u>		<u>434.5</u>	<u>1.0</u>	<u>0.9924</u>	<u>1.048</u>	<u>6399.06</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c² _____

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.						<u>197.67</u>	<u>220.16</u>		<u>0.688</u>
2.									
3.									
4.									
5.									

Absolute Potential: 11,032.0 MCFPD; n 0.85

COMPANY WESTERN NATURAL GAS COMPANY
ADDRESS 823 Midland Tower, Midland, Texas
AGENT and TITLE Petroleum Engineer
WITNESSED _____
COMPANY _____

REMARKS

