

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial x Annual _____ Special _____ Date of Test July 5, 1961
Company Congress Oil Company Lease Congress Well No. 4
Unit A Sec. 35 Twp. 29N Rge. 11W Purchaser Southern Union Gas Company
Casing 4 1/2" Wt. 9.5 I.D. 4.090 Set at 6465 Perf. 6203-6211 To 6202-6320
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6311 Perf. _____ To _____
Gas Pay: From 6203 To 6320 L 6311 xG 670 -GL 4228 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing XX Type Well Single - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer - Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Probe~~) (~~Shoe~~) (Meter) Type Taps Klange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Probe) (Line) Size	(Probe) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>2078</u>		<u>2068</u>		
1.	<u>1"</u>	<u>1 1/2"</u>	<u>563</u>	<u>27.5</u>	<u>68</u>	<u>565</u>	<u>70</u>	<u>732</u>	<u>74</u>	<u>2 1/2 hrs.</u>
2.										
3.										
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.	<u>13.99</u>	<u>124.42</u>		<u>.9924</u>	<u>.9427</u>	<u>1.064</u>	<u>1733</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 57.766 cf/bbl.
Gravity of Liquid Hydrocarbons 55 deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2090 P_c² 4368.1

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>553.5</u>	<u>3814.6</u>		<u>.3559</u>
2.									
3.									
4.									
5.									

Absolute Potential: 1918 MCFPD; n .75

COMPANY Congress Oil Company

ADDRESS Box 808, Farmington, New Mexico

AGENT and TITLE L. S. Muennink - Production Superintendent

WITNESSED _____

COMPANY _____

REMARKS

