

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Formation Dakota County Santa Fe
Initial W Annual W Special W Date of Test 7/1/61
Company Agri-Gas Co. leased ADH Union Well No. 50
Unit C Sec. 15 Twp. 23N Rge. 9W Purchaser
Casing 4 1/2 No. 1-5 I.D. 4.090 Set at 6249 Perf. 6250 To 6280
Tubing 2 3/8 No. 1-5 I.D. 1.995 Set at 6320 Perf. 6320 To
Gas Pay: From 6250 To 6280 I.D. 4.090 To 6280 Bar. Press. 12
Producing Through Casing Tubing W Type Well W
Date of Completion 7/1/61 Power Single-Bradenhead W or G.O. W
Reservoir Temp.

OBSERVED DATA

Tested Through (3-5/8") (Choke) (1-1/2") Type W

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Proven Line Size)	(Choke Size)	Press. psig	Diff. in. Hg	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
1.						2015		2015		1.0
2.						103	20	39		2.0
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coeff. Lent (24-Hour)	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{cv}	Rate of Flow Q-MCFD @ 15.25 psia
1.	12.345	117	0.9415	0.9415	1.000	1.0
2.						
3.						
4.						
5.						

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cc/ft³.
Gravity of Liquid Hydrocarbons deg.
 $P_c = \frac{P_w}{(1-e^{-B})}$
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
 $P_c = \frac{P_w}{(1-e^{-B})}$ $P_c = \frac{P_w}{(1-e^{-B})}$

No.	P_w P_t (psia)	P_c	$(P_c)^2$	$(P_c)^2$ (1-e ^{-B})	P_w^2	P_w^2 (1-e ^{-B})	Cal. F_t	F_g
1.	3-7							
2.					11.344	11.344		
3.								
4.								
5.								

Absolute Potential 12.65 MCFD;
COMPANY Agri-Gas Co. leased ADH Union
ADDRESS 20000 N. 1st, Santa Fe, N.M.
AGENT and TITLE
WITNESSED
COMPANY



REMARKS