

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 12/27/62
 Company Artec Oil & Gas Lease DAVIS Well No. 9-D
 Unit J Sec. 12 Twp. 31N Rge. 12W Purchaser _____
 Casing 4 1/2 Wt. 9 5/16 I.D. 4.400 Set at 2533 Perf. 7262 To 7410
 Tubing 2 3/8 Wt. 11.2 I.D. 2.166 Set at 2266 Perf. 7262 To 7410
 Gas Pay: From 7262 To 7410 L 7266 SG 2.0048 GL 5286 Bar. Press. 312
 Producing Through Casing _____ Tubing _____ Type Well SINGLE - GAS
 Single-Bradenhead-G. G. or G.O. Dual _____
 Date of Completion: 12/29/62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (Meter)						Type Taps				
Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Packer) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2" bore	3/4"				2016		2076		3 hrs
2.						276	60°	998	70°	
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_{pw}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		288	1.000	1.258	1.024	3409
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 $P_c = \frac{P_w}{1 - e^{-8}}$ _____
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 $P_c = 2028$ $P_c^2 = 4112,384$

No.	P_w P_t (psia)	P_c^2	$P_c Q$	$(P_c Q)^2$	$(P_c Q)^2 (1 - e^{-8})$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w / P_c
1.	1010					1,020,100	3,092,684		
2.									
3.									
4.									
5.									

Absolute Potential: 4222 MCFPD; n .75

COMPANY Artec Oil & Gas
 ADDRESS Deerme 520 Farmington, New Mexico
 AGENT and TITLE DISTRICT ENGINEER B. D. Thomas
 WITNESSED _____
 COMPANY _____

REMARKS

