

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 2/12/62
Company Artes Oil & Gas Lease Dallas Well No. 7-D
Unit D Sec. 11 Twp. 34N Rge. 12W Purchaser Seaboard Union Gas Co
Casing 1 1/2" Wt. 12.6 I.D. 1.440 Set at 7285 Perf. 7226 To 7320
Tubing 2 3/8" Wt. 47 I.D. 1.995 Set at 7286 Perf. 7206 To
Gas Pay: From 7226 To 7320 L 7206 M 700(GH) G 5049 Bar. Press. 12
Producing Thru: Casing Tubing ✓ Type Well Single 295
Date of Completion: 2/18/62 Packer None Sample-Bradenhead-C: G. or G.O. Dual
Reservoir Temp.

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. Δp	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	8 days					1920		1920		
2.	2"	1/4"				184 (60% test)		549 (40% test)		3 hr
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{sp}}$	Pressure psia	Flow Temp. Factor P_t	Gravity Factor P_g	Compress. Factor P_{pr}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		196	1.000	.9258	1.023	2.296
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
 P_c (1-e⁻⁸)

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
 P_c 1932 P_c 3,732,24

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.	361					319721	3417903		
2.									
3.									
4.									
5.									

Absolute Potential: 2453 MCFPD; α 15
COMPANY Artes Oil & Gas Company
ADDRESS Blanca - 57th - Farmington, N. Mexico
AGENT and TITLE B. S. Mena A. H. Drake
WITNESSED
COMPANY

REMARKS

