

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-102

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN DAKOTA Formation DAKOTA County SAN JUAN
 Initial ✓ Annual _____ Special _____ Date of Test 6/24/62
 Company ARTEL OIL & GAS CO Lease EAST Well No. 7
 Unit D Sec. 14 Twp. 31N Rge. 12W Purchaser _____
 Casing 4 1/2 Wt. 9 5/8 I.D. 4.000 Set at 7520 Perf. 7296 To 7440
 Tubing 2 3/8 Wt. 4 7/8 I.D. 1.995 Set at 7263 Perf. Pin Collar To _____
 Gas Pay: From 7296 To 7440 L 7263 XG 700 GL 5264 Bar. Press. 14
 Producing Thru: Casing _____ Tubing ✓ Type Well SINGLE GAS
 Single-Bradenhead-G. G. or G.O. Dual _____
 Date of Completion: 6/14/62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Master) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"					1941		1943		
2.		3/4"				294	60°	710	60°	3
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wp}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		306	1.000	.9258	1.037	3,633
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 1955 P_c^2 3,822,025

No.	P_w P_t (psia)	P_t^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.	222					521,284	3,300,791		
2.									
3.									
4.									
5.									

Absolute Potential: 4.055 MCFPD; n .75

COMPANY ARTEL OIL & GAS CO

ADDRESS DRAWER 570, FARMINGTON, N. MEX

AGENT and TITLE B. B. Mearns DISTRICT ENGINEER

WITNESSED _____

COMPANY _____

REMARKS _____

