

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN DAKOTA Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 8/6/61
 Company ARTEL OIL AND GAS Lease HARE Well No. 19-D
 Unit A Sec. 23 Twp. 29N Rge. 10W Purchaser _____
 Casing 4 1/2 wt. 9.5 I.D. 4.000 Set at 6761 Perf. 6570 To 6688
 Tubing 2 3/8 wt. 4.7 I.D. 1.995 Set at 6531 Perf. Run Collar To _____
 Gas Pay: From 6570 To 6688 L 6531 H 7000 - GL 4572 Bar. Press. 14
 Producing Thru: Casing _____ Tubing ☒ Type Well SINGLE - GAS
 Single-Bradenhead-G. G. or G.O. Dual _____
 Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Runner) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Runner) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"	1/4"				2013		2013		
2.						289	602	728	602	3
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_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		301	1.000	.9258	1.037	3,573
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (10^{-5})

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2025 P_c^2 4,100,625

No.	P_w P_t (psia)	P_t^2	$P_c Q$	$(P_c Q)^2$	$(P_c Q)^2$ (10^{-8})	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	760					542,600	7,553,025		.365
2.									
3.									
4.									
5.									

Absolute Potential: 3,979 MCFPD; n .75
 COMPANY ARTEL OIL AND GAS
 ADDRESS Diamond 520 Farmington, New Mexico
 AGENT and TITLE B. D. Munn DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

REMARKS

