

MULTI-POINT BACK PRESSURE TEST FOR GAS + LIQ.

Revised 12-1-53

Pool Basin Dakota Formation Dakota Section Basin Dakota
 Initial X Annual Special Date of Test 5-14-62
 Company Artes Oil & Gas Co. Lease East No. 1 Sec. 8
 Unit P Sec. 26 Twp 31 N Rge. 12 W Purchaser
 Casing 4 1/2" Wt. 9.5 I.D. 4.005 Set at 7049 Perd. 6820
 Tubing 2 3/4" Wt. 4.7 I.D. 1.995 Set at 6850 Perd. 6850
 Gas Pay: From 6870 To 6908 6850 700 12
 Producing Thru: Casing Tubing ✓ Type Well Single - Gas
 Date of Completion: 5-14-62 Packer Single-Bradenhead Reservoir

OBSERVED DATA

Tested Through (3000) (Choke) (2000)

Type Well

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) () Size	Press. psig	Diff. in	Temp. °F.	Press. psig	Temp. °F.	
SI	7 days							
1.		3/4"				1849	1863	
2.						171	6820	232
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{2WPF}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pc}	Rate of Flow MCFPD
1.	12.365		203	1.000	.9253	1.016	15.025 psia
2.							4.361
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
1.881 0.356 1.61

No.	P_w P_c (psia)	P_c^2	P_w^2	$(P_w)^2$	$(P_c)^2$ (1-e-8)	P_w	P_c	$\frac{P_w}{P_c}$
1.	544							
2.						295.736	2.22235	
3.								
4.								
5.								

Absolute Potential: 2.549 MCFPD: 25
 COMPANY Artes Oil & Gas Co.
 ADDRESS Denver 572
 AGENT and TITLE B. J. McLean Oil Engineer
 WITNESSED
 COMPANY

REMARKS

