

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN Formation Dakota County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 12/27/63
 Company ARTEL OIL & GAS Lease Grenier Well No. 13-D
 Unit K Sec. 20 Twp. 31N Rge. 11W Purchaser _____
 Casing 4 1/2" Wt. 9.5 + 11.6 I.D. 4.000 Set at 7286 Perf. 6998 To 7164
 Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 7003 Perf. Pin Collar To _____
 Gas Pay: From 6998 To 7164 L 7003 xG 7003 -GL 4902 Bar. Press. 14
 Producing Thru: Casing _____ Tubing ☒ Type Well SINGLE - GAS
 Date of Completion: 12/20/63 Packer _____ Reservoir Temp. _____
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Packer) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>Packer</u>) (Line) Size	(Choke) (<u>Orifice</u>) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2"	3/4"				1615		1593		
2.						213	60° at	524	60° at	3 hrs.
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.	12.365		225	1.000	.9258	1.027	2645
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1627 P_c 2647.127

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	F _w P _c
1.	536					287,296	2,357,833		
2.									
3.									
4.									
5.									

Absolute Potential: 2,883 MCFPD; n .75COMPANY ARTEL OIL AND GASADDRESS Diamond 576 Farmington, New MexicoAGENT and TITLE B. H. Freeman District Engineer

WITNESSED _____

COMPANY _____

REMARKS _____

