

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 7-7-72	
Company David Fasken		Connection Transwestern Pipeline Co.	
Pool Boyd <i>Cisco</i>		Formation Cisco	
Completion Date March 19, 1972		Total Depth 9250	Plug Back TD 9054
Elevation 3527 Gr.		Farm or Lease Name Arco "9" Morrison	
Csg. Size 4-1/2	Wt. 13.50	Set At 4.000"	Perforations: From 7138 To 7200
Tbg. Size 2-3/8	Wt. 4.70	Set At 1.995	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - G.G.		Packer Set At 8835	Well No. 1
Producing Thru Tbg-Csg Annulus		Reservoir Temp. °F 138 @ 7169	Mean Annual Temp. °F
Baro. Press. - P _a		County Eddy	
State New Mexico		Unit Sec. Twp. Rge. B 9 19-S 25-E	
L 7169	H 7169	Gg 0.685	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run 2"		Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2" x 0.750			712	3"	67			
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	2.720	46.6	708.2	0.9924	1.208	1.081	164
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	1.06	528	1.37	0.856	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deq.
2.					Specific Gravity Separator Gas	0.685	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	669	P.S.I.A.
5.					Critical Temperature	386	R

P _c 740.2	P _c ² 548			
NO.	P _t ²	* P _w	P _w ²	P _c ² - P _w ²
1.		729	531	17
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 32.2$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1279$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.8$

Absolute Open Flow	1279	Mcf/d @ 15.025	Angle of Slope @ 50° 22'
Remarks: * Based on estimated volume of condensate in casing. ** From previous Back Pressure Test.			

Approved By Commission:	Conducted By: Henry Engineering	Calculated By: Robert H. Angevine	Checked By:
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RECEIVED
JUL 26 1972