

A. 16-211

the 10th mo
2000

AFFIDAVIT

100
800

Date _____

K. L. Flinn

State of Colorado)

Before me, the undersigned authority, on this day personally appeared, K. L. Flinn, known to me to be the Operations Information Assistant for ARCO Oil and Gas Company, Division of Atlantic Richfield Company, and to be the person whose name is subscribed to the above statement, who, being duly sworn on oath, states that she has knowledge of the facts stated herein, and that said statement is true and correct.

Subscribed and sworn to before me, a Notary Public in and for said County and State this 11th day of February, 1982.

Wesley J. Hutton

My commission expires: **My Commission Expires June 18, 1995**

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-8-82				
Company Arco Oil & Gas Co., Div. of Atlantic Richfield Co.					Connection None				
Pool Basin Dakota					Formation Dakota		Unit		
Completion Date 1-30-82			Total Depth 6732		Plug Back TD 6686		Elevation 5702		
Csg. Size 4.500		Wt. 10.5#		d 4.052		Set At 6732		Perforations: From 6522 To 6637	
Tub. Size 2.375		Wt. 4.7#		d 1.995		Set At 6498		Perforations: From To	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single Gas					Packer Set At None		County San Juan		
Producing Thru Tubing			Reservoir Temp. °F ●		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		
State New Mexico									
L 4419		H 4419		Gg .680(EST)		% CO ₂		% N ₂	
						% H ₂ S		Prover 2"	
								Meter Run	
								Taps	

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	Press. p.s.i.g.	Temp. °F	
SI							1588		1601		SI 9 days
1.	2"	.750"		84		71	183		589		Flow 3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.453		96	.9896	1.213	1.000	1089
2.							
3.							
4.							
5.							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1	.14	531	1.38		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.					Specific Gravity Separator Gas .680 (EST) X X X X X X X X		
3.					Specific Gravity Flowing Fluid X X X X X		
4.					Critical Pressure 669 P.S.I.A. P.S.I.A.		
5.					Critical Temperature 385 R R		

P _c 1613 P _c ² 2601769				(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0264$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.020$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²			
1	38025	259	66854	2534915			
2							
3							
4							
5							

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1111$					
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Absolute Open Flow 1111 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .750	
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Remarks: Well Test Thru 48/64" Choke

Approved by Division	Conducted By: Rex Hitchcock, Jr.	Calculated By: Rex Hitchcock, Jr.	Checked By:
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