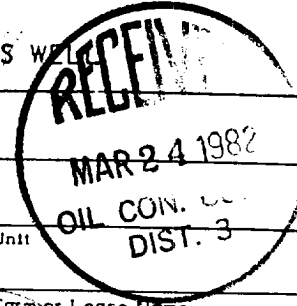


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 3/5/82	
Company <u>Amoco</u> <u>M.R. SCHALK</u>				Connection new completion	
Pool BASIN DAKOTA				Formation DAKOTA	
Completion Date 2/21/82		Total Depth 6100'		Plug Back TD 6039'	
Elevation 5760'		Farm or Lease Name SHIPP GAS COM			
Csq. Size 4.500	Wt. 10.5#	d	Set At 6098'	Perforations: From 5940' To 6022'	
Thq. Size 2.375	Wt. 4.7#	d	Set At 5980'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At None	
Producing Thru TUBING		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _g 12.0		State NEW MEXICO			
L	H	Cg	% CO ₂	% N ₂	% H ₂ S
Prover 3/4" CHOKE				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	2	X	.750				969		980		SIP
1.							48		269		
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	12.365		60	1.00	.9608	1.014	723
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 992 P _c ² 984064				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		281	78961	905103
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0872$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0647$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 770$

Absolute Open Flow	770	Mcfd @ 15.025	Angle of Slope	Slope, n .75
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Remarks:

Approved By Division	Conducted By: R.E. ELLIOTT	Calculated By: J.E. EVANS	Checked By:
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