

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

1-57
1-File
1-C 122
File
Form C-122
Revised 9-1-65

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 7-24-63		APR 11 1978				
Company Amoco Production Company				Connection Phillips Petroleum Co.							
Pool Sams Ranch				Formation Grayburg			Unit O. C. C. ARTESIA, OFFICE				
Completion Date 7-24-63		Total Depth 3250		Plug Back TD 1785		Elevation 3588' DF		Farm or Lease Name Midwest "A" Federal			
Csq. Size 5.50	Wt. 14.0	d 5.012	Set At 1864	Perforations: From 1683 To 1777			Well No. 1				
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 1765	Perforations: From To			Unit L	Sec. 10	Twp. 14S	Rge. 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At			County Chaves			
Producing Thru Tubing		Reservoir Temp. *F 8		Mean Annual Temp. *F 58.0		Baro. Press. - P _a 13.2		State New Mexico			
L 1730	H 1730	G _g .719	% CO ₂ 0	% N ₂ 25.03	% H ₂ S	Prover	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	of Flow
SI							720.2	84			72.0
1.			1/8			102	705.2	93			1.5
2.			1/8			90	690.2	93			1.5
3.			3/16			88	670.2	91			1.5
4.			1/4			91	518.2	88			2.0
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	.3418		45.7	.9618	.9129	1.000	137				
2	.3418		79.2	.9723	.9129	1.000	240				
3	.7851		54.2	.9741	.9129	1.000	390				
4	1.4030		52.2	.9804	.9129	1.000	669				
5											
NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/bbl.			A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
1					Specific Gravity Separator Gas .719			XXXXXXXXXX			
2					Specific Gravity Flowing Fluid XXXXX			.719			
3					Critical Pressure _____ P.S.I.A.			_____ P.S.I.A.			
4					Critical Temperature _____ R			_____ R			
5											
NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____				
1		* 816	666	20							
2		788	621	65							
3		731	534	152							
4		564	318	368	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 975						
5											
Absolute Open Flow 975 Mcl @ 15.025					Angle of Slope @ 58.5		Slope, n 0.613				
Remarks: *Tom Hansen used sub-surface pressures to calculate AOF. 72 hour SIBHP 828 psia											
Approved By Commission:			Conducted By: Tom Hansen Company, Inc.			Calculated By: Tom Hansen Company, Inc.			Checked By:		