

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

Form O-122  
Revised 7-1-65

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date: 12-28-76							
Company: AMOCO PRODUCTION CO.			Connection: EL PASO NATURAL GAS CO.								
Pool: ANTELOPE RIDGE			Formation: MORROW		Unit:						
Completion Date: 9-24-75		Total Depth: 13,910'		Plug Back TD: 13,681'	Elevation: 3441 GR.						
Csg. Size: 5"		Wt.: 21#	d: 4.154"	Set At: 13,890'	Perforations: From 13,380' To 13,391'						
Tbg. Size: 2 7/8"		Wt.: 7.9#	d: 2.323"	Set At: 12,280'	Perforations: From OPEN ENDED						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 12,280'							
Producing Thru: TUBING		Reservoir Temp. °F: 212 @ 13,830'	Mean Annual Temp. °F: 60	Baro. Press. - P <sub>g</sub> : 13.2							
L: 12350	H: 12350	G <sub>g</sub> : 0.573	% CO <sub>2</sub> : 0.37	% N <sub>2</sub> : 0.18	% H <sub>2</sub> S: .01GR/100						
Prover: 4"		Meter Run: 4"	Taps: FLANGE	State: LEA COUNTY							
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							4329		PACKER		24 HR.
1.	4"	x	2.500	312	2.9	58	3637	60			1 HR.
2.	4"	x	2.500	317	7.8	46	3275	64			1 HR.
3.	4"	x	2.500	335	13.0	62	2785	66			1 HR.
4.	4"	x	2.500	329	19.8	61	2327	68			1 HR.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd				
1	32.64	30.71	325.2	1.002	1.321	1.025	1360				
2	32.64	50.75	330.2	1.014	1.321	1.029	2233				
3	32.64	67.28	348.2	.9981	1.321	1.027	2974				
4	32.64	82.31	342.2	.9990	1.321	1.027	3641				
5											
NO.	F <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	T S T M Mcf/bbl.						
1.	.48	518	1.50	.951	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	.49	506	1.46	.944	Specific Gravity Separator Gas: 0.573 XXXXXXXXXX						
3.	.52	522	1.51	.948	Specific Gravity Flowing Fluid: XXXXXX						
4.	.51	521	1.51	.949	Critical Pressure: 672 P.S.I.A. P.S.I.A.						
5.					Critical Temperature: 346 R R						
P <sub>c</sub> : 4342.2		P <sub>w</sub> : 18854.7									
NO.	P <sub>c</sub>	P <sub>w</sub>	F <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.431$		(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.397$				
1		3655.3	13361.2	5493.5							
2		3301.6	10900.6	7954.1							
3		2823.8	7973.8	10880.9							
4		2383.1	5679.2	13175.5							
5											
Absolute Open Flow: 5,086 Mcfd @ 15.025				Angle of Slope: 47°		Slope, n: .933					
Remarks: WELL MADE 0.4 BBL WATER DURING TEST											
Approved by Commission:			Conducted By: G.J.P.			Calculated By: R.R.			Checked By: J.W.W.		

RECEIVED

JAN 9 1977

U.S. DEPARTMENT OF COMMERCE  
HOBBS, N. M.