

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

Form C-37
JUN 27 1985
O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5- 3-85	
Company AMOCO ✓		Connection ATMOSPHERE	
Pool BURTON FLAT		Formation WOLF CAMP	
Completion Date 09-21-81	Total Depth 12000.	Plug Back TD 9965.	Elevation 3272.
Farm or Lease Name STATE IR		Well No. 1	
Csg. Size 4.500	Wt. 13.5	Set At 3.920	11886.
Perforations: From 9564. To 9787.		Well No. 1	
Teg. Size 2.375	Wt. 4.7	Set At 1.995	9500.
Perforations: From 0. To 0.		Unit Sec. Twp. Rge. E-23-21-27	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 8595.	County EDDY
Producing Thru TUBING	Reservoir Temp. °F 150.0	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2
State NEW MEXICO		Meter Run 3.0	
L 9564.	H 9564.	G _g 0.694	% CO ₂ 1.23
% N ₂ 7.57		% H ₂ S 0.	Prover 0.
Taps FLANGE		Duration of Flow 96.0	

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							3115.	90.			96.0
1.	3.00 X	1.750		300.	1.0	90.	2580.	90.	0.	0.	0.7
2.	3.00 X	1.750		300.	4.0	90.	2265.	90.	0.	0.	0.7
3.	3.00 X	1.750		300.	7.0	80.	1710.	80.	0.	0.	0.7
4.	3.00 X	1.750		300.	8.0	80.	1050.	80.	0.	0.	0.7
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	15.71	17.70	313.2	0.9723	1.2004	1.0248	332.
2	15.71	35.39	313.2	0.9723	1.2004	1.0248	665.
3	15.71	46.82	313.2	0.9813	1.2004	1.0269	890.
4	15.71	50.06	313.2	0.9813	1.2004	1.0269	951.
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Rate of Flow Q, Mcfd
1	0.47	550.	1.51	0.952	15.0	60.0	0.694	XXXXXXX	660.	365.	332.
2	0.47	550.	1.51	0.952				XXXXX			665.
3	0.47	540.	1.48	0.948							890.
4	0.47	540.	1.48	0.948							951.
5											

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	6725.	2539.	6448.	3026.	1.1235	1.1335
2	5190.	2225.	4950.	4524.		
3	2969.	1693.	2866.	6608.		
4	1130.	1056.	1116.	8358.		
5						

Absolute Open Flow		Angle of Slope θ		Slope, n	
1078.	Mcfd @ 15.025	45.0		1.000	

Remarks:	
Approved By Commission:	Conducted By: BENNETT AND CATHEY
Calculated By: STEVE BATES (AMOCO)	Checked By: STEVE WHITE (AMOCO)