

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-15-74		MAR 21 1974		
Company Amoco Production Company				Connection Natural Gas Pipeline				O. C. C. ARTESIA, OFFICE	
Pool Logan Draw Morrow				Formation Morrow				Unit	
Completion Date 10-25-73		Total Depth 9,778'		Plug Back TD 9,716'		Elevation 3,492 RDB		Farm or Lease Name Hondo Fed. Gas Com	
Csg. Size 5-1/2"	Wt. 15#-17#	d 4.892	Set At 9,778	Perforations: From 9,314 To 9,545		Well No. 1			
Teg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 9,239'	Perforations: From To		Unit Sec. Twp. Rge. J 27 17 27			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 9,236'		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 150 @ 9,770'		Mean Annual Temp. °F 65°		Baro. Press. - P _a 13.2		State New Mexico	
L 9314	H 9314	G _g 0.640	% CO ₂ -	% N ₂ -	% H ₂ S -	Prover -	Meter Run 4"	Taps Flange	

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							2722				816 Hr.
1.	4"	x	2.500	855	11	82°	2233	78°	Pkr		30 Min.
2.	4"	x	2.500	860	17	78°	2062	78°	Pkr		30 Min.
3.	4"	x	2.500	870	22	75°	1938	78°	Pkr		30 Min.
4.	4"	x	2.500	885	31"	78°	1685	77°	Pkr		30 Min.
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	32.64	97.22	868.2	0.9795	1.250	1.077	4206
2	32.64	121.8	873.2	0.9831	1.250	1.079	5271
3	32.64	139.4	883.2	0.9859	1.250	1.087	6095
4	32.64	166.9	898.2	0.9831	1.250	1.081	7237
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.296	542	1.456	0.862	210.5	
2.	1.303	538	1.446	0.859	54°	
3.	1.318	535	1.438	0.846		
4.	1.341	538	1.446	0.856		
5.						

NO.	P _c	P _c ²	* P _w	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	3592.2	12,901	3133.2	9,817	3084	2.544	2.544
2			3018.2	9,110	3791		
3			2938.2	8,633	4268		
4			2798.2	7,830	5071		
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18,410$

Absolute Open Flow	18,410	Mcf/d @ 15.025	Angle of Slope @	Slope, n 1.000
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Remarks: *Pressures recorded with bottom hole pressure recorder. Original slope "n" = 1.088. AOF calculated from highest flow rate and using "n" = 1.000

Approved By Commission:	Conducted By: John West Engineering	Calculated By: J. E. York	Checked By:
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