

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

RECEIVED

Form C-122
Revised 9-1-65

NOV 24 1982

✓/SF
File

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-10-82		O. C. D. ARTESIA, OFFICE	
Company Amoco Production Company ✓					Connection To Air			
Pool Und. Morrow					Formation Morrow		Unit	
Completion Date 11-12-82		Total Depth 12,780		Plug Back TD 12,780		Elevation 3092		Farm or Lease Name State MS
Csg. Size OH	Wt. 6.5	d 2.4	Set At 12,090	Perforations: From 12,258 To 12,780		Well No. 1		
Tub. Size 2 7/8	Wt. 4.7	d 2.0	Set At 12,090	Perforations: From To		Unit C	Sec. 12	Twp. 24
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Open-Hole				Packer Set At 9050		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 197 @ 12,450		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L	H	G _g .58	% CO ₂ 1.29	% N ₂ 0.22	% H ₂ S 0	Prover		Meter Run 4" OWT
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.	
SI							4126			
1.	4"		1.5				4102			30 min.
2.	4"		1.5				3810			45 min.
3.	4"		2.0				3100			45 min.
4.	4"		2.0				2552			45 min.
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							277
2							901
3							1369
4							1889
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 .58 X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure 678 P.S.I.A. 678 P.S.I.A.
5.					Critical Temperature 351 R 351 R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1		5221	27259	335		
2		4825	23281	4313		
3		4081	16655	10930		
4		3434	11724	15870		
5						

$P_c = 5253$ $P_c^2 = 27,594$
 AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2450$

*Post ID-2
12-10-82
Comp + BK*

Absolute Open Flow <u>AOF 2450</u> Mcfd @ 15.025	Angle of Slope Θ <u>64°</u>	Slope, n <u>.50</u>
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Remarks: <u>Pressure recorded by BHP Bomb @ 12,450' Rates determined using charts supplied by State of New Mexico</u>		
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Approved By Commission:	Conducted By: John West Engineering	Calculated By: D. R. White	Checked By: S. F. Lesikar
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