

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 9-14-81		SEP 21 1981	
Company Amoco Production Co. /				Connection El Paso Natural Gas Co.					
Pool Undesignated <i>Atoka</i>				Formation Atoka				Unit O. C. D. ARTESIA, OFFICE	
Completion Date 1-22-81		Total Depth 13369.		Plug Back TD 12215.		Elevation 2984.		Farm or Lease Name Teledyne 20 Gas Com	
Csg. Size 5.000	Wt. 17.9	d 4.276	Set At 13367.	Perforations: From 12040. To 12060.				Well No. 1	
Tbg. Size 2.875	Wt. 6.5	d 2.441	Set At 11943	Perforations: From 0. To 0.				Unit Sec. Twp. Rge. C-20-23S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 9395		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 197 ^o 12050.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 12050.	H 12050.	G _g 0.580	% CO ₂ 0.56	% N ₂ 2.47	% H ₂ S 0.	Prover 0.	Meter Run 4.0	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							2542.	75.			4.0
1.	4.00 X 1.000			770.	3.6	80.	2392.	77.	0.	0.	1.0
2.	4.00 X 1.000			761.	10.9	85.	2243.	77.	0.	0.	1.0
3.	4.00 X 1.000			752.	16.8	90.	2110.	80.	0.	0.	1.0
4.	4.00 X 1.000			752.	38.4	94.	1895.	79.	0.	0.	1.0
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	4.75	53.17	783.2	0.9813	1.3130	1.0516	342.
2	4.75	91.82	774.2	0.9768	1.3130	1.0490	587.
3	4.75	113.42	765.2	0.9723	1.3130	1.0464	720.
4	4.75	171.51	765.2	0.9688	1.3130	1.0450	1084.
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.17	540.	1.57	0.904	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.15	545.	1.58	0.909	Specific Gravity Separator Gas 0.580 X X X X X X X X
3.	1.14	550.	1.60	0.913	Specific Gravity Flowing Fluid _____ X X X X X
4.	1.14	554.	1.61	0.916	Critical Pressure 672. _____ P.S.I.A. 672. _____ P.S.I.A.
5.					Critical Temperature 345 _____ R 345. _____ R

P _c 2555.2 P _c ² 6529					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2444$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0617$	
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2235$			
1	5785	2390.	5713.	816.				
2	5090.	2244.	5035.	1494.				
3	4508.	2110.	4453.	2076.				
4	3641.	1903.	3620.	2909				
5								

Absolute Open Flow 2202 _____ Mcfd @ 15.025		Angle of Slope θ 48.2 _____		Slope, n .895 _____	
Remarks: 2202.					

Approved By Commission:	Conducted By: John West Engineering	Calculated By: D. Etheridge	Checked By: L. W. Sheppard
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