

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

Form C-122
 Revised 9-1-63

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1- 6-78		MAY 26 1978	
Company AMOCO ✓				Connection EPNG			
Pool UNDSG. ATOKA				Formation MORROW		Unit O.C.C. ARTESIA, OFFICE	
Completion Date		Total Depth 11500.		Plug Back TD 10695.		Elevation 3394.	
Farm or Lease Name STATE "ER"				Well No. 1			
Csg. Size 5.500	Wt. 17.0	d 4.892	Set At 11500.	Perforations: From 10568. To 10579.		Unit Sec. Twp. Rge. 6 T-19-S R-29-E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 10486.	Perforations: From 0. To 0.		County EDDY	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 10486.		State NEW MEXICO	
Producing Thru PERFS		Reservoir Temp. °F 74.° 10573.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 10573.	H 10573.	G _g 0.665	% CO ₂ 0.50	% N ₂ 0.40	% 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							817.	34.			67.0
1.	4.00 X 0.750			663.	1.4	37.	700.	37.	0.	0.	1.0
2.	4.00 X 0.750			622.	1.4	38.	650.	40.	0.	0.	1.0
3.	4.00 X 0.750			625.	9.0	44.	657.	42.	0.	0.	1.0
4.	4.00 X 0.750			630.	38.4	78.	672.	43.	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	2.66	30.77	676.2	1.0229	1.2263	1.0892	112.
2	2.66	29.82	635.2	1.0218	1.2263	1.0826	108.
3	2.66	75.79	638.2	1.0157	1.2263	1.0794	271.
4	2.66	157.16	643.2	0.9831	1.2263	1.0616	535.
5							

NO.	P _t	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
1	1.01	497.	1.32	0.843	100.0 Mcf/bbl.	67.0 Deg.	0.665	XXXXXXX	670. P.S.I.A.	385. R
2	0.95	498.	1.32	0.853				XXXXX		
3	0.95	504.	1.34	0.858						
4	0.96	538.	1.43	0.887						
5										

P _c 840.9 P _c ² 707.					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1862$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7902$	
NO	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 958.$			
1	509.	721.	519.	188.				
2	440.	669.	447.	260.				
3	449.	677.	458.	249.				
4	469.	697.	485.	222.				
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Absolute Open Flow		958. Mcfd @ 15.025	Angle of Slope @	63.3	Slope, n	0.503
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Remarks: Test not representative due to excessive fluid in hole.

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	AMOCO PRODUCTION COMPANY		