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File ✓
Form C-122
Revised 9-1-65

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

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-14-80		FEB 12 1980	
Company Harvey E. Yates Company		Location Llano		Unit O. C. D.	
Undesignated		Strawn		ARTESIA, OFFICE	
Completion Date 11-15-79		Total Depth 12370		Perforations 11105	
Well No. 2		From 10971 To 11094		Farm or Lease Name Amoco 22 State	
Well Size 2 7/8		Set At 10931		Unit Sec. Twp. Rge. 22 23S 27E	

Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At 10931		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 186 @ 10900		Mean Annual Temp. °F 70	
Baro. Press. - P ₀ 13.2		State New Mexico			
L 10931	H 10931	Gg 0.618	% CO ₂ 0.41	% N ₂ 0.74	% H ₂ S Nil
Prover X		Meter Run X		Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1	71	3/4	hours				4643			
2	3"	X	1.250"	520	3	73	4540	72	Pkr.	-
3	3"	X	1.250"	525	6	71	4415	73	"	-
4	3"	X	1.250"	530	19.5	69	4182	72	"	-
5	3"	X	1.250"	540	50	68	3832	70	"	-
6										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	7.577	39.96	532.2	.9877	1.272	1.0477	398.55
2	7.577	56.77	537.2	.9905	1.272	1.0483	568.16
3	7.577	102.83	542.2	.9915	1.272	1.0489	1030.64
4	7.577	166.16	552.2	.9924	1.272	1.0494	1667.81

NO.	T _f	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.79	533	1.46	.911	A.P.L. Gravity of Liquid Hydrocarbons (Trace)	Deg.
2	0.80	531	1.46	.910	Specific Gravity Separator Gas 0.618	X X X X X X X X
3	0.81	529	1.45	.909	Specific Gravity Flowing Fluid X X X X X	
4	0.82	528	1.45	.908	Critical Pressure 671 P.S.I.A.	P.S.I.A.
					Critical Temperature 394 R	R

NO.	P _i ²	P _s	P _s ²	P _i ² - P _s 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	20723	5750.2	33065	1629	3.48648	2.99118
2	19609	5037.2	31778	2916		
3	17600	5311.2	28807	5887		
4	14786	4974.2	24743	9951		

Flow open Flow	4988.717	Mcf @ 15.025	Angle of Slope °	48.739°	Slope, n	0.87731
BHP measured with Amerada Gauge No. 32708, 0-11000 PSI Range						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	D.A. Warren, Jr.	