

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT, ONE POINT BACK PRESSURE TEST OR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-24-79	
Company Wood, McShane & Thams				Connection None			
Pool <i>Rhodes</i> Jalmat (Yates Gas)				Formation Yates		Unit	
Completion Date 5-17-79		Total Depth 3150		Plug Back TD 3142		Elevation 2980 Gr.	
Farm or Lease Name Linebery							
Csg. Size 5 1/2		Wt. 14		Set At d		Perforations: From 3012 To 3078	
Well No. 1							
Tbg. Size 2 3/8		Wt. 4.7		Set At 1,995		Perforations: From To	
Unit 0		Sec. 23		Twp. 26-S		Rge. 37E	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing						State New Mexico	
Reservoir Temp. °F 86 @ 3045		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2			
L 3045		H 3045		G _g 0.675		% CO ₂ 2.36	
				% N ₂ 1.81		% H ₂ S OWT	
Prover Meter Run 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.		Temp. °F
SI	85 3/4 hours							363		363	
1.	2" X 1 1/2"			7" Hg		59	360	70	360	70	1 hour
2.	2" X 1 1/2"			22" Hg		63	358	70	358	70	1 hour
3.	2" X 3/4"			18" Hg		65	382	70	352	70	1 hour
4.	2" X 3/4"			58" Hg		67	329	70	337	70	1 hour
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	47.96			1.001	1.217	0.88634	51.785
2	90.63			0.9971	1.217	0.90009	98.989
3	182.02			0.9952	1.217	0.89676	197.695
4	380.65			0.9933	1.217	0.92258	424.523
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 0.675 XXXXXXXXXX
3					Specific Gravity Flowing Fluid XXXXXX
4					Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 382 R _____ R

P _c 409.2 P _s ² 167.44				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.6472175$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.548843$	
NO.	P _t ²	P _s ²	P _f ² - P _s ²				
1	407.2	165.81	1.63				
2	402.2	161.76	5.68				
3	394.2	155.39	12.05				
4	371.2	137.79	29.65				
5							

AOF = Q _{sc} $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_s^2} \right]^n = 1931.088$			
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Absolute Open Flow 1931.088 Mcfd @ 15.025	Angle of Slope 48° 49'	Slope, n 0.875061
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Bottom hole pressure measured with Amerada RPG-3 gauge serial number 2544 N 0-2700 psi.

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: Farrest Tefteller	Checked By:
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RECEIVED

MAY 11 1979

**OIL CONCENTRATION COMM.
HOBBS, N. M.**