

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date June 2, 1975				
Company Burleson & Huff				Connection None					
Pool Jalmat				Formation Yates					
Completion Date 6-2-75		Total Depth 2891		Plug Back TD 2872		Elevation		Farm or Lease Name Lanehart	
Csg. Size 5 1/2	Wt. 17	d	Set At 2891	Perforations: From 2826 To 2838			Well No. 3		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2800	Perforations: From To			Unit L	Sec. 21	Twp. 25
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 2800			County Lea		
Producing Thru TBG.		Reservoir Temp. °F 90 @ 2800 (Est)		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 2800	H 2800	Gg .650 (Assumed)	% CO ₂	% N ₂	% H ₂ S	Prover 2	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							420				72
1.	2" X 1/8			413		74	413				45 Min.
2.	2" X 3/16			407		74	407				45 "
3.	2" X 7/32			400		73	400				45 "
4.	2" X 1/4			392		74	392				45 "
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	.2684		426.2	.9868	1.240	1.044	146
2	.6082		420.2	.9868	1.240	1.043	326
3	.8393		413.2	.9877	1.240	1.042	443
4	1.087		405.2	.9868	1.240	1.041	561
5.							

NO.	P _i	Temp. °H	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.	Specific Gravity Separator Gas <u>.650</u> X X X X X X X X	Specific Gravity Flowing Fluid <u>X X X X X</u>	Critical Pressure <u>670</u> P.S.I.A.	Critical Temperature <u>375</u> °R
1	.64	534	1.42	.918						
2	.63	534	1.42	.919						
3	.62	533	1.42	.921						
4	.60	534	1.42	.923						
5.										

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²
1			181.7	6.0
2			176.7	11.0
3			172.8	14.9
4			167.5	20.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{9.292}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{4.107}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{7.320}$

Absolute Open Flow 4.107 Mcfd @ 15.025	Angle of Slope 48.25	Slope, n .893
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Remarks:

Approved By Commission: <i>John W. Runyan</i>	Conducted By: Joe B. Murray	Calculated By: Joe B. Murray	Checked By:
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RECEIVED

JUN 5 - 1975

OIL CONSERVATION COMM.
HOBBS, N. M.