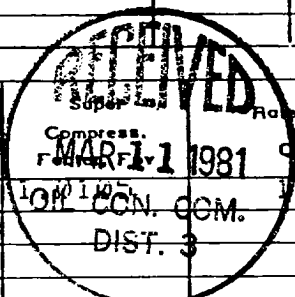


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

xc: NMOCC (5), Archer, L.C.,
Cen. Rec., C.T.Y., EPNG,
Div. Files, Texas Pacific, Texaco

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-19-81	
Company MESA				Connection EPNG	
Pool BASIN DAKOTA				Formation DAKOTA	
Completion Date 2-9-81		Total Depth 6620.		Plug Back TD 6577.	
Elevation 5810.		Farm or Lease Name STATE COM			
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 6625.	Perforations: From 6530. To 6423.	
Well No. AH30E					
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6413.	Perforations: From 0. To 0.	
Unit N	Sec. 36	Twp. 30N	Range 12W		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple FLOWING				Packer Set At 0.	
Producing Thru TUBING		Reservoir Temp. °F 160.0 6423.		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 13.2		State NM			
L 6423.	H 6423.	Gg 0.650	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.
Prover 0.	Meter Run 0.	Taps			
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	2.00 X 0.750			97.	0.
2.					
3.					
4.					
5.					
TUBING DATA					
				Press. p.s.i.g.	Temp. °F
				1476.	40.
				97.	67.
CASING DATA					
				Press. p.s.i.g.	Temp. °F
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
1	11.22	0.	110.2	0.7733	1.2403
2.					
3.					
4.					
5.					
					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1	0.16	527.	1.41	0.9779	0.
2.					0.
3.					0.
4.					0.
5.					0.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R					
$P_c = 1501.2$ $P_c^2 = 22534.$					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0313$
1	12.	262.	68.	2185.	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0265$
2.					
3.					
4.					
5.					
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1581.$					
Absolute Open Flow _____ Mcd @ 15.025 Angle of Slope @ _____ 49.6 Slope, n _____ 0.850					
Remarks: _____					
Approved By Commission:		Conducted By: J. Archer		Calculated By: Garrett AOF Program	
				Checked By: <i>N. Kent. Ruck</i>	