

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
AUG 1 1990

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-26-90	
Company Caulkins Oil Company		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 9-19-90		Total Depth 7647'	Plug Back TD 7647'
Elevation 6630'		Farm or Lease Name Breech "C"	
Csg. Size 7"	Wt. 23# & 26#	d 6276'	Set At 7646'
Perforations: From 7374' To 7593'		Well No. 144-E	
Thg. Size 1 1/2	Wt. 2.90	d 161	Set At 7493'
Perforations: From 7493' To		Unit Sec. Twp. Rge. C 12 26N 6W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G O Multiple		Packer Set At 6944'	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a New Mexico
L	H	G _g	% CO ₂ % N ₂ % H ₂ S 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 _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							1438		PKR		7 Days
1.							178		PKR		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O. Mc/d
1	14.1605		190	1.000	1.000	1.000	2,690
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1450	P _c ² 2,102,500					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.697$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.487$
1	36,100	929	863,740	1,238,760		
2						
3						
4						
5						

Absolute Open Flow _____ 4,000 _____ Mc/d @ 15.025		Angle of Slope _____ Slope, n 75	
Remarks: _____			
Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____			