

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-23-84	
Company CONSOLIDATED OIL & GAS, INC		Connection Gas Co. of New Mexico	
Pool Basin Dakota		Formation Dakota	
Completion Date 6-19-84		Total Depth 6500' KB	
Plug Back TD 6459'		Elevation 5640' GL	
Form or Lease Name Kaufman		Well No.	
Gr. Size 5 1/2"	Wt. 15.5#	d 4.950	Set At 6500'
Perforations: From 6231'	To 6330'		
Gr. Size 1 1/2"	Wt. 2.76#	d 1.610	Set At 6332'
Perforations: From	To		
Type Well -- Single -- Brodenhead -- G.G. or G.O. Multiple Dual Gas		Packer Set At 5730'	
County San Juan		State New Mexico	
Producing thru tubing	Reservoir Temp. °F 177 @ 6300'	Mean Annual Temp. °F	Baro. Press. -- P _g 12.0
L	H	G _g .650 est	% CO ₂
		% N ₂	% H ₂ S
Prover 6" Pos.		Meter Run Choke	Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X days	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
1.	2"x6"x3/4"		pos.choke				1457		pkc		
2.							112		pkc		pkc
3.											
4.											
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	11.00		124.0	1.000	1.240	1.012	1712
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	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²
1		470	220900	193706
2				
3				
4				
5				

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1					1.1140	1.0843
2						
3						
4						
5						

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1					1856
2					
3					
4					
5					

Absolute Open Flow		Mcf @ 15.025		Angle of Slope @		Slope, n	
1856				53.13		.75	

Remarks:		OIL CON. DIV	

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Richard Housh	Neil Tefteller	

RECEIVED

AUG 20 1984