

OIL CONSERVATION DIVISION

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP.O. BOX 2008
SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		8-3-84	
Company				Consolidated Oil & Gas, Inc.							
Connection				Gas Co. of New Mexico							
Pool				WC Fruitland							
Formation				Fruitland - Picture Cliff							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm Lease Name			
5-22-84		2300'		2243'		5875		Lea			
Casing Size		WT.		d		Set At		Perforations:		Well No.	
4 1/2		10.5#		4.052		2286		From 1820 To 2224		2	
Tub. Size		WT.		d		Set At		Perforations:		Unit Sec. Twp. Rge.	
1 1/2		2.9#		1.610		2201		From To		E 30 31 12W	
Type Well - Single - Packerhead - G.C. or G.O. Multiple								Packer Set At		County	
Single								None		San Juan	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State			
Tubing		94 2183				12.0		New Mexico			
L		H		G _g		% CO ₂		% N ₂		% H ₂ S	
				.650 est.						Prover	
										Water Run	
										Taps	
										6" pos. choke nipple	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. ps.i.g.	Diff. h _w	Temp. °F	Press. ps.i.g.	Temp. °F	Press. ps.i.g.	Temp. °F	of Flow
1.	Shut-in 30 days						537		537		3 hours
2.	2"x3/4"						51	60	312	60	
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 _{sp}	Rate of Flow Q, Mscf
1	11.0		63	1.000	1.240	1.000	859
2.							
3.							
4.							
5.							

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

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	549	324	301401	104976	196425	1.5344	1.4389
2							
3							
4							
5							

Absolute Open Flow		Mscf @ 15.025		Angle of Slope θ		Slope, n	
1236						.85	

Remarks:		Heavy water mist thru-out test	
----------	--	--------------------------------	--

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