

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		7-30-84	
Company						Connection					
CONSOLIDATED OIL & GAS, INC						Gas Co. of New Mexico					
Pool						Formation					
Flora Vista Gallup						Gallup					
Completion Date				Total Depth		Plug Back TD		Elevation		Farm or Lease Name	
6-19-84				6500'		6459'		5640' GL		Kaufman	
Csg. Size		Wt.		d		Set At		Perforations		Well No.	
5 1/2"		15.5#		4.950		6500'		From 5356' To 5628'		1E	
Tbg. Size		Wt.		d		Set At		Perforations		Unit Sec. Twp. Rge.	
2-1/16"		3.25#		1.751		5502'		From To		0 33 31N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple								Packer Set At		County	
Dual Gas								5730'		San Juan	
Producing Thru				Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State	
Tubing				172 @ 5492'				12.0		New Mexico	
L		H		Gg		% CO ₂		% N ₂		% H ₂ S	
				.650 est						Prover	
										Meter Run	
										Taps	
										6" positive choke nipple	

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	14 days						1011		1025		
1.	2"x6"x3/4"						52	60	274		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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.00		64	1.000	1.240	1.000	873
2.							
3.							
4.							
5.							

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

NO.	P _t	P _w	R _w ²	P _c ² - R _w ²
1		286	81796	993573
2				
3				
4				
5				

$P_c = 1027$ $P_c^2 = 1075369$ (1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.0823$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.0611$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 926$

Absolute Open Flow 926 Mcfd Angle of Slope 13 Slope, n .75

Remarks: Heavy oil mist during test

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

OIL CON. DIV
DIST. 3

AUG 20 1984