

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122

Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
JUL 20 1984

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-30-84	
Company Consolidated Oil & Gas, Inc.		Connection Southern Union Gathering Co.	
Pool Basin Dakota		Formation Dakota	
Completion Date 5-24-84		Total Depth 6400'	Plug Back TD 6368
		Elevation 5565 KB	Farm or Lease Name Rourke
Csq. Size 5 1/2	Wt. 17 & 15.5#	d 4.950	Set At 6397'
Perforations: From 6080' To 6212		Well No. 1-F	
Trq. Size 1 1/2	Wt. 2.76#	d 1.610	Set At 6178
Perforations: From To		Unit Sec. Twp. R1/4 D 4 30N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual		Packer Set At 5696	County San Juan
Producing Thru Tbg.	Reservoir Temp. °F 192 6150	Mean Annual Temp. °F 12	State New Mexico
L	H	Gg .650	% CO ₂ % N ₂ % H ₂ S
Prover 6" pos. ck. nipple		Meter Run Taps	
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI	14 days		
1.	2"x6"x3/4" pos. choke		
2.			
3.			
4.			
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
	1372		
	169	3 hr.	60
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
	Pkr.		
	Pkr.		
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	11.00		181
2.			
3.			
4.			
5.			
NO.	P _r	Temp. °R	T _r
1			
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deq.			
Specific Gravity Separator Gas _____ X X X X X X X X			
Specific Gravity Flowing Fluid _____ X X X X X			
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
Critical Temperature _____ R _____ R			
NO.	P _c	P _w	P _c ² - P _w ²
1	1384	689	1915456
2			
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3304$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2388$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3116.4$			
Absolute Open Flow _____ Mcfd @ 15.025			
Angle of Slope @ _____ 53.13			
Slope, n _____ 75			
Remarks:			
Approved by Division		Conducted by: Neil Tefteller	Checked by: