

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-16-76			
Company Shell Oil Company						Connection			
Pool						Formation Pictured Cliffs			
Completion Date		Total Depth		Flow Back TD		Elevation		Farm or Lease Name Carson Unit	
Perf. Size	Wt.	d	Set At	Perforations: From 1210 To 1220		Well No. 41-14			
Thq. Size 2.375	Wt.	d	Set At 1185	Perforations: From To		Unit Sec. Twp. Rge. 4 14 25 12			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County San Juan	
Producing Thru		Reservoir Temp. °F 99 @ 1212		Mean Annual Temp. °F		Baro. Press. - P _g 12.0		State 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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	7 days						221				
1.	2"	X	3/4				50	60			3 hrs.
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 Q, Mcfd
1	12.365		62	1.000	.9608		737
2							
3							
4							
5							

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

NO.	P _c	P _w	P _c ² - P _w ²	P _c ²
1	233	62	54289	50445
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0762$

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 785$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0648$

Absolute Open Flow	785	Mcfd @ 15.025	Angle of Slope °	49.5°	Slope, n	0.854
--------------------	-----	---------------	------------------	-------	----------	-------

Remarks:

Approved By Commission:	Conducted By: Teffeller, Inc.	Calculated By: N. Teffeller	Checked By:
-------------------------	----------------------------------	--------------------------------	-------------