

**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 JAN 11 1974	
Company Shell Oil Company			Connection		
Pool Basin Dakota			Formation Dakota		Unit
Completion Date		Total Depth 5950	Plug Back TD	Elevation	Farm or Lease Name Carson Unit
Csg. Size 5 1/2	Wt. d	Set At 5950	Perforations: From 5807 To 5826	Well No. 113-17	
Thq. Size 2 3/8	Wt. 4.6	Set At 5600	Perforations: From To	Unit 17	Sec. Twp. Rge. 25 11
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	County San Juan
Producing Thru		Reservoir Temp. °F 164 @ 5820	Mean Annual Temp. °F	Baro. Press. - P _a 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
1.	2	x	3/4				2002		Pkr.		720
2.							355	60	"		3 hrs
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	12.3650		367	1.0000	9608	1.038	4526
2.							
3.							
4.							
5.							

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

P _c 2014 P _c ² 4056196				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	134689	746	556535	3499661
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1590$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5056$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1170$$

Absolute Open Flow	5056	Mcf/d @ 15.025	Angle of Slope ϕ	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: N. Tefteller	Checked By:
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