

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 4-24-79	
Company Dugan Production Corp.				Connection		
Pool Basin Dakota				Formation Dakota		Unit
Completion Date 3-14-79		Total Depth 5925'		Plug Back TD 5883'		Elevation 5510'
Csg. Size 4-1/2	Wt. 11.6	d	Set At 5924	Perforations: From 5772 To 5792		Well No. #1
Tbg. Size 2-3/8	Wt. 4.7	d	Set At 5801'	Perforations: From Open To End		Unit Sec. Twp. Rge. J 2 29 14
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 5698'		County San Juan
Producing Thru tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico
L	H	Gg .65	% 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							472		---		7 days
1.											
2.											
3.	5/8 Pos. Choke						3	70 ⁰	---		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	8.5417		15	.9905	.9608	1.000	122
4							
5							

NO.	P _t	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 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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	484	234256			
2					
3			27	729	227027
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0318$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n^{.75}} = 1.0238$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 125$

Absolute Open Flow	125	Mcfd @ 15.025	Angle of Slope @	Slope, n	.75
--------------------	-----	---------------	------------------	----------	-----

Remarks: _____

Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By:
-------------------------	-----------------------	------------------------	-------------