

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 10-18-79				
Company Dugan Production Corp.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 9-29-79		Total Depth 6043'		Plug Back TD 6042'		Elevation 5495'		Farm or Lease Name Carpenter	
Csg. Size 4-1/2"	Wt. 10.5	d	Set At 6043' RKB	Perforations: From 5784 To 6027			Well No. 1E		
Tbg. Size 1-1/2"	Wt. 2.75	d	Set At 5987'	Perforations: From Open To End			Unit F	Sec. Twp. Rge. 25 30 14	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan		
Producing Thru tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L	H	G _g .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							1980		1940		7 days
1.											
2.											
3.	3/4" Pos. Choke						146	71 ⁰	940		3 hrs
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, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	12.365		158	.9896	.9608	1.010	1876
4							
5							

NO.	P _t	Temp. °R	T _t	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 1952	P _c ² 3810304	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3121$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n/5} = 1.2259$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3		952	906304	2904000
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2300$

Absolute Open Flow 2300 Mcfd @ 15.025

Angle of Slope θ _____

OCT 22 1979
OIL CON. COM.
DIST. 5

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