

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

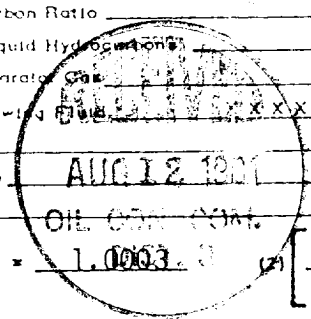
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-29-81	
Company Dugan Production Corp.				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date 6-16-81		Total Depth 6367'		Plug Back TD 6320'		Elevation 6844'	
Casing Size 4 1/2"		ID 10.5		Set At 6367		Perforations: From 6270 To 6283	
Tubing Size 2-3/8"		ID 4.7		Set At 6299		Perforations: From open end To	
Type Well - Single - Bronsonhead - G.G. or G.O. Multiple single - gas				Packer Set At 6234		Farm or Lease Name Harvey	
Producing Thru		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g .65		State NM	
				% 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 _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.							1780				
2.											
3.	1/2" pos choke						20	76°			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 _{sp}	Rate of Flow Q, Mcfd
1.							
2.							
3.	5.4315		32	.9850	.9608	1.000	164
4.							
5.							

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



NO.	P _t	P _w	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n$
1.					
2.					
3.		32	1024	3,210,240	1.0025
4.					
5.					

Absolute Open Flow 164		Mcf @ 15.025		Angle of Slope		Slope, n = .85	
Remarks:							

Approved By Division	Conducted By Hall	Calculated By Hall	Checked By
----------------------	----------------------	-----------------------	------------