

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-26-79	
Company Dugan Production Corp.				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date 12-8-79		Total Depth 5999'		Plug Back TD 5948'	
		Elevation 5534' GL		Farm or Lease Name Com	
Coq. Size 4-1/2"	Wt. 10.5#	d	Set At 5999'	Perforations: From 5760 To 5780	
Trg. Size 1-1/2"	Wt. 2.9#	d	Set At 5784'	Perforations: From Open To Ended	
Type Well - Single - Drdhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru tbq		Reservoir Temp. °F #		Baro. Press. - P _a	
L		H	G _g 0.68	% 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
1					
2					
3	2		3/4"	58	62
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
1					
2					
3	12.365		70	0.9981	0.9393
4					
5					
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R
$P_c = 404$ $P_c^2 = 163216$ (1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.3333$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.2408$					
NO.	P _t ²	P _w ²	P _t ² - P _w ²	$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1006$	
1					
2					
3	40804		122,412		
4					
5					
Absolute Open Flow 1006				Mold # 15.025	
				Angle of Slope @ _____ Slope n .75	
Remarks:					
Approved by Division		Conducted By: Dugan		Checked By:	

DEC 28 1979
OIL CON. COM.
DIST. 3