

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

3 NMOCD
1 EPNG
1 File

Form C-122
Revised 10-1-78

- MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special										Test Date 2-13-84	
Company Dugan Production Corp.					Connection					FEB 16 1984 OIL CON. DIV. DIST. 3	
Pool Basin Dakota					Formation Dakota						
Completion Date 2-4-84			Total Depth 6507'		Plug Back TD 6417'		Elevation 5708'		Farm or Lease Name Mexico Federal L		
Csg. Size 4.5		Wt. 10.5		d 4.052		Set At 6507		Perforations: From 6247 To 6358		Well No. 1R	
Tbg. Size 1 1/2"		Wt. 2.9		d 1.610		Set At 6324		Perforations: From Open To Ended		Unit Sec. Twp. Rge. K 10 30N 13W	
Type Well - Single - Brdenhead - 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 _a		State NM			
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							1540		1540		7 days
1.											
2.											
3.	9/16" Pos. Choke						151	64°	700		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	6.8294		163	.9962	.9608	1.016	1083
4							
5							

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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2666$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n \cdot 75} = 1.1939$	
1						
2						
3		712	506,944	1,901,760	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1293$	
4						
5						

Absolute Open Flow 1293 Mcfd @ 15.025		Angle of Slope θ _____		Slope, n .75	
Remarks: _____					