

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 11-5-82	
Company DUGAN PRODUCTION CORP.				Connection	
Pool Fulcher Kutz P. C.				Formation Pictured Cliffs	
Completion Date 10-29-82		Total Depth		Plug Back TD	
				Elevation	
Form or Lease Name Redfern				Well No.	
Csg. Size 2-7/8"		Wt. 6.5#		Set At 1638	
Perforations From 1518 To 1528		Perforations From To		Unit 1R	
Type Well - Single - Blindhead - G.C. or G.O. Multiple Single Gas		Facker Set At		County San Juan	
Producing Thru 2-7/8" csg.		Reservoir Temp. °F p		Mean Annual Temp. °F	
				State New Mexico	
L		H		Gg .62 est.	
				% 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									190		7 days
1.											
2.	7/16" Pos. Choke			100		58°					3 hrs.
3.											
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	4.1712		112	1.002	.9837	1.009	465
3							
4							
5							

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

NO.	P _i	P _w	P _i ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.4439$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.3665$
1							
2	12,544		12,544		28,260		
3							
4							
5							

Absolute Open Flow 635				Mcf @ 15.025		Angle of Slope		Slope, n .85		
Remarks: Well flowed very dry throughout test.										
Approved By Division			Conducted By S. Dugan			Calculated By J. Jacobs			Checked By	