

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
Revised 9-1-65

MAR 10 1970
OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-16-70	
Company Chaparral Oil & Gas Co.		Connection	
Pool Fulcher Katz		Formation Pictured Cliffs	
Completion Date 3-16-70		Total Depth 2023'	Plug Back TD 2023'
		Elevation 5835' GR	Farm or Lease Name Frances
Csg. Size 4 1/2"	Wt. 9.5	Set At 2023'	Perforations: From 1902' To 1906'
Tbg. Size 1 1/2"	Wt. 1.90	Set At 1911.75'	Perforations: From 1912' To 1922'
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	Well No. 1
Producing Thru Tubing	Reservoir Temp. *F 8	Mean Annual Temp. *F	Baro. Press. - P _a
County San Juan		State New Mexico	
L	H	Gg	% 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.	
SI							322		322	
1.	2"		3/4"				72		164	
2.										
3.										
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	12.365		84	1.0000	.9258	1.0000	962
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ 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 334	P _c ² 111,556	
NO.	P _t ²	P _w
1		176
2		
3		
4		
5		

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.3844}{1.3844 - 0.0309} = 1.022$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.3185}{1.3185 - 0.0001} = 1.000$	
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1268$			

Absolute Open Flow 1268 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By:
		Checked By: