NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-22-77	
Company: Kirby Exploration Company		Connection: none			
Pool: Wildcat		Formation: Fruitland			Unit
Completion Date: 3-14-77	Total Depth: 1550	Plug Back TD: 1326	Elevation: 6198 GL		Farm or Lease Name: Kirby Federal
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: 1531		Perforations: From 996 To 1004			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.6 / d: / Set At: 1052		Perforations: From To			Unit: C / Sec.: 5 / Twp.: 26N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: N/A		County: San Juan
Producing Thru: tubing	Reservoir Temp. °F: 90 @ 1550	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.62						

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					182	-	183	-	
1.	2x6x.75	13			13	60	34	-	3 Hrs.
2.									
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	12.365		25	1.00	0.9837	1.004	305
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.037	520	1.43	
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 195 P_c^2 38025

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		46	2116	35909
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.0589 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.0498

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 320

Absolute Open Flow 320 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. D. Hicks	J. D. Hicks	