NEW M[illegible]CO 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: 11-10-72	
Company: Mobil Oil Corporation		Connection: Skelly			
Pool: Tubb		Formation: Tubb Gas			Unit: -
Completion Date: 10-21-72	Total Depth: 6535'		Plug Back TD: 6535'	Elevation: 3417'GL	Farm or Lease Name: Brunson Argo
Csg. Size: 5 1/2" / Wt.: 17.0 / d: 4.892	Set At: 6535'		Perforations: From 5883' To 6127'		Well No.: 15
Tbg. Size: 2 3/8" / Wt.: 4.6 / d: 3.995	Set At: 5840'		Perforations: From OPEN To ENDED		Unit: F / Sec.: 10 / Twp.: 22s / Rge.: 37e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual			Packer Set At: 5840'		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 102[illegible] 5800'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6005'	-	0.679	0.00	2.40	0.00		x	F

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. DWT	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1348		PACKER		48.0 Hrs
1.	4		19/64 2	7.4	7.9	46	550	68			3.0
2.	4		17/64 2	6.8	6.8	45	625	65			2.0
3.	4		15/64 2	6.4	5.9	38	772	62			1.0
4.	4		13/64 2	5.4	3.5	42	907	55			1.0
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	19.81	58.46	54.76	1.014	1.214	-	1425.6
2.	19.81	46.24	46.24	1.015	1.214	-	1128.7
3.	19.81	37.76	40.96	1.022	1.214	-	928.1
4.	19.81	18.90	29.16	1.018	1.214	-	462.7
5.							

NO.	P_r	Temp. °R	T_r	Z
1	0.09	506	1.36	-
2.	0.07	505	1.35	-
3.	0.06	498	1.34	-
4.	0.04	502	1.35	-
5				

Gas Liquid Hydrocarbon Ratio 28.145 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 66.7 Deg.
Specific Gravity Separator Gas 0.679 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 664 P.S.I.A. - P.S.I.A.
Critical Temperature 373 R - R

P_c 1703.2 P_c^2 2900.9

NO	P_t^2	P_w*	P_w^2	$P_c^2 - P_w^2$
1	-	837.2	700.9	2200.0
2	-	1094.2	1197.3	1703.6
3	-	1235.2	1525.7	1375.2
4	-	1510.2	2280.7	620.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.319$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.286$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1837$

Absolute Open Flow 1837 Mcfd @ 15.025 Angle of Slope θ 47° 46' Slope, n 0.908

Remarks: * BHP @ (-2588') 6005' used for pressure calculations

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COLEMAN PET.ENG.CO	JOE A. COLEMAN	JOE A. COLEMAN