NEW MEXICO OIL CONSERVATION COMMSSION

Form C-122
Revised 9-1-65

MULTIPOINT AND E POINT BACK PRESSURE TEST FC GAS WELL

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 4-9-72	
Company: Sohio Petroleum Co.	Connection: NONE			
Pool: Undesignated	Formation: San Andres			Unit: 120
Completion Date: 3-31-72	Total Depth: 4146'	Plug Back TD: 4271'	Elevation: 3592' KB	Farm or Lease Name: [illegible] A

Csg. Size	Wt.	d	Set At	Perforations: From	To	Well No.
5 1/2"	17.0 / 15.5	4.892 / 4.950	4412'	4096'	4130'	2

Tbg. Size	Wt.	d	Set At	Perforations: From	To	Unit	Sec.	Twp.	Rge.
2 3/8"	4.7	1.995	3838	OPEN	ENDED	[illegible]	8	21	37

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE	3848' KB	Lea

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	108 @ 3800'	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
4113	–	0.661	5.11	0.25	0.00		Y	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	4		2				1221		PACKER		
1.	4	44/64	2	580	54	74	807	77			2.0
2.	4	32/64	2	580	46	74	894	77			1.0
3.	4	25/64	2	580	32	73	985	78			1.0
4.	4	20/64	2	580	17	75	1045	77			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	10.81	178.97	593.2	0.9868	1.227	1.049	4503.1
2	10.81	165.18	593.2	0.9868	1.227	1.049	4156.1
3	10.81	137.78	593.2	0.9877	1.227	1.050	3471.0
4	10.81	100.47	593.2	0.9859	1.227	1.019	2525.6
5.							

NO.	P_r	Temp. °R	T_r	Z
1	0.85	534	1.17	0.909
2.	0.85	534	1.17	0.909
3.	0.85	533	1.16	0.907
4.	0.85	535	1.17	0.909
5.				

Gas Liquid Hydrocarbon Ratio 0.007 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons – Deg.

Specific Gravity Separator Gas 0.664 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 694 P.S.I.A. – P.S.I.A.

Critical Temperature 364 R – R

P_c [illegible] P_c^2 [illegible]

NO	P_t^2	P_w *	P_w^2	$P_c^2 - P_w^2$
1	–	[illegible]	[illegible]	360.8
2	–	1261.2	[illegible]	320.6
3	–	1291.2	1675.0	[illegible]
4	–	1300.2	[illegible]	152.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 5.318

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 3.055

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 13757

Absolute Open Flow 13757 Mcfd @ 15.025 | Angle of Slope θ 56° 10' | Slope, n 0.665

Remarks: * BHP @ (-910') 4113' used for pressure calculations

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