NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-7-75	
Company: APCO Oil Corporation		Connection: To air			
Pool: Wildcat		Formation: Atoka			Unit
Completion Date: 4-7-75	Total Depth: 12,221'	Plug Back TD: 12,221'	Elevation	Farm or Lease Name: Sun State	
Csg. Size: 5½ / Wt.: 17# / d: 4.892 / Set At: 12,221'		Perforations: From 11,766' To 12,053'		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.6# / d: 1.995 / Set At: 11,610'		Perforations: From open To ended		Unit: F / Sec.: 23 / Twp.: 11S / Rge.: 34E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11,610'		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 194 @ 12,060'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	
L: 11610 / H: 11610	Gg: 0.7511	% CO_2: 0.664	% N_2: 1.571	% H_2S: ----	Prover: 4" owt / Meter Run: / Taps:

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. Hg	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI						3569.0		Packer	Choke	5 Days
1.	4" owt	1.25"		13.0	135	3412.0	56		4/64	60 Min
2.	"	1.50"		20.0	120	2545.0	54		8/64	80 "
3.	"	2.00"		22.0	124	1525.0	64		14/64	70 "
4.	"	2.50"		13.0	110	1060.0	65		18/64	60 "
5.										

RATE OF FLOW CALCULATIONS

NO.	Volume before Correction	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	502.4			.9348	0.8944	1.000	420
2.	936.1			.9469	0.8944	1.000	793
3.	1835.0			.9436	0.8944	1.000	1549
4.	2288.0			.9551	0.8944	1.000	1955
5.							

NO.	P_t	Temp. °R	T_r	Z
1	Not applicable due to			
2.	low pressures on Orfice			
3.	Well Tester			
4.				
5.				

Gas Liquid Hydrocarbon Ratio: 1,404 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 47.3 @ 60 Deg.
Specific Gravity Separator Gas: 0.7511 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: Not applicable P.S.I.A. ____ P.S.I.A.
Critical Temperature: " " R ____ R

P_t 5404.2 P_t^2 29205

NO	P_c^2	P_s	P_s^2	$P_t^2 - P_s^2$
1		5275.2	27828	1377
2		5362.2	19029	10176
3		2989.2	8935	20270
4		2042.2	4171	25034
5				

(1) $\frac{P_t^2}{P_t^2 - P_s^2} = 1.1666$ (2) $\left[\frac{P_t^2}{P_t^2 - P_s^2}\right]^n = 1.1666$

ACF = Q $\left[\frac{P_t^2}{P_t^2 - P_s^2}\right]^n = 2281$

Abs[illegible] 2281 Mcfd @ 15.025 Angle of Slope @ 45° Slope, n 1.00 Limit

Remarks: All Pressures measured with Amerada Gauge at 12,060 Feet.
Good point alignment – but slightly in excess of 1.000 limits.

Approved by Commission: [illegible] OIL CONSERVATION COMM.

Conducted By:	Calculated By:	Checked By:
G.J.P.	R.L.W.	R.L.W.