N MEXICO OIL CONSERVATION COM 'ON

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
FEB 8 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-31-73	
Company: Texas International Petroleum Corporation			Connection: shut in pending connection		
Pool: South Carlsbad (Atoka)			Formation: Atoka		Unit:
Completion Date: 1-20-73	Total Depth: 12000		Plug Back TD: 11902	Elevation: 3203.8' DF	Farm or Lease Name: Tidwell "A" COM
Csg. Size: 5 / Wt.: 17# 20# / d: 3.434 / Set At: 11984			Perforations: From 10754 To 10760		Well No.: 1
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: / Set At: 11300			Perforations: From To		Unit: E / Sec.: 8 / Twp.: 23S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple (G.G.)			Packer Set At: 11300		County: Eddy
Producing Thru: Annulus	Reservoir Temp. °F: 181 @ 11976	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
10754	10754	.604	–	–	–	–	3	Flange

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3886	–	5436	38	38
1.	3.068 x 1.50	500	13	68	Morrow	zone	4032	54	1
2.	3.068 x 1.50	500	33	61	COMPLETED		3165	58	1
3.	3.068 x 1.50	690	39	80	IN TUBING		2371	67	1
4.	3.068 x 1.50	690	40	71			1630	64	1
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	11.13	81.68	513.2	.9924	1.287	1.043	1211
2.	11.13	130.14	513.2	.9990	1.287	1.045	1931
3.	11.13	165.60	703.2	.9813	1.287	1.056	2458
4.	11.13	167.71	703.2	.9896	1.287	1.059	2518
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.76	528	1.47	.919
2.	.76	521	1.45	.915
3.	1.05	540	1.50	.897
4.	1.05	531	1.48	.892
5.				

Gas Liquid Hydrocarbon Ratio 169 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 56 Deg.
Specific Gravity Separator Gas .604 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .622
Critical Pressure 671 P.S.I.A. 671 P.S.I.A.
Critical Temperature 360 R 366 R

P_c 5449.2 P_c^2 29,694

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	16,364	4045.5	16,366	13,328
2	10,101	3179.3	10,108	19,586
3	5,684	2386.4	5,695	23,999
4	2,700	1643.7	2,702	26,992
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{29,694}{26,992}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.100$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,770$

Posted 2-12-73

Absolute Open Flow 2,770 Mcfd @ 15.025 | Angle of Slope θ 45° | Slope, n 1

Remarks: Calculations made by electronic calculator

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		D.E. Simpson	