NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 4-1-65

RECEIVED
MAR 17 1976
O. C. C.
ARTESIA, OFFICE

R-5226
6-22-76

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-23-76	
Company: Burmah Oil & Gas Company			Connection: none		
Pool: ~~W/C~~ Willow Lake Atoka Gas			Formation: Atoka		Unit: Willow Lake Unit
Completion Date: 1-14-76	Total Depth: 13,205		Plug Back TD: ~~12,680~~ 12023	Elevation: GL = 3015	Farm or Lease Name:
Csg. Size: 7 5/8"	Wt.: 33.7	d: 6.765	Set At: 11,725	Perforations: From 11680 To 11700	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 5.95	d: 1.867	Set At: 11485	Perforations: From To	Unit: C Sec.: 22 Twp.: 24S Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 11485		County: Eddy
Producing Thru: 2 3/8" tbg	Reservoir Temp. °F: 193 @ 11580		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
11580	11580	.598					3.1	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						7237	70	pkr		
1.	3.068	1.750	540	6	90	7106	70	pkr		30 min
2.	3.068	1.750	540	20	46	6956	70	pkr		30 min
3.	3.068	1.750	520	36	32	6800	72	pkr		30 min
4.	3.068	1.750	680	65	0	6558	72	pkr		30 min
5.								pkr		

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	20668.46	56.938	540	.9723	1.2932	1.0396	1175
2.	20668.46	103.883	540	1.0137	1.2932	1.0543	2269
3.	20668.46	136.800	520	1.0281	1.2932	1.0585	3043
4.	20668.46	210.205	680	1.0632	1.2932	1.1014	5017
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.82	550	1.54	.925
2.	.82	506	1.41	.900
3.	.79	492	1.37	.893
4.	1.03	460	1.29	.824
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas .598 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .598
Critical Pressure 673 P.S.I.A. 673 P.S.I.A.
Critical Temperature 358 R 358 R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1	50683	7119	50683	1793
2	48570	6990	48863	3613
3	46420	6855	46991	5485
4	43181	6705	44953	7523
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.9752$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.9752$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 34997$

Absolute Open Flow 34997 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.0

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tom Hanson Co Inc	See attached Letter	