Rule 122

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 16 1979
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-10-79	
Company: GULF OIL CORP.	Connection: AIR			
Pool: N. SUGART Morrow	Formation: MORROW			Unit: F
Completion Date: 10-6-79	Total Depth: 11795	Plug Back TD: 11750	Elevation: 3633 GL	Farm or Lease Name: EDDY D FED. COM.
Csg. Size: 7 / Wt.: 23/26 / d: / Set At: 11795		Perforations: From 11551 To 11640 ~~11617~~		Well No.: # 1
Tbg. Size: 2 3/8 / Wt.: n/80 / d: / Set At: 11502		Perforations: From To		Unit: F / Sec.: 20 / Twp.: 18s / Rge.: 31e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G. DUAL		Packer Set At: 11502		County: EDDY
Producing Thru: TBG.	Reservoir Temp. °F: 180° PERFS.	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
11502	11502	.677	.52	2.42	0		4"	FLG.

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					2362				72 HRS
1.	4 X 1.000	525	4.0	68	2215	70			1 HR.
2.	4 X 1.000	520	8.0	114	2090	70			1 HR.
3.	4 X 1.000	540	16.0	120	1970	70			1 HR.
4.	4 X 1.000	550	32.0	107	1772	70			1 HR.
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	4.753	46.40	538.2	.9924	1.215	1.061	282
2.	4.753	65.31	533.2	.9518	1.215	1.044	375
3.	4.753	94.08	553.2	.9469	1.215	1.043	537
4.	4.753	134.25	563.2	.9577	1.215	1.048	778
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.80	528	1.37	.889
2.	.80	574	1.49	.918
3.	.83	580	1.51	.920
4.	.84	567	1.47	.910
5.				

Gas Liquid Hydrocarbon Ratio 41.083 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 58.3 @ 60 Deg.
Specific Gravity Separator Gas .677 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .746
Critical Pressure 669 P.S.I.A. 667 P.S.I.A.
Critical Temperature 385 R 408 R

P_c 2375.2 P_c^2 5641.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2229.8	4972.0	669.6
2		2105.7	4434.0	1207.6
3		1986.3	3945.4	1696.2
4		1791.4	3209.1	2432.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.319$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.319$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.804$

Absolute Open Flow 1,804 Mcfd @ 15.025 Angle of Slope @ 45 Slope, n 1.000

Remarks: THE WELL PRODUCED 2 BBLS. OF DISTILLATE AND 2 BBLS OF H 2 O DURING THE TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JOHN DAVIS	LARRY DAVIS	