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

Form C-122
Revised 5-1-

RECEIVED
SEP 17 1980
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special | Test Date: 9-9-80

Company: Gulf Oil Corp.	Connection: To Air	Unit
Pool: Burton Flats Morrow	Formation: Morrow	

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
9-4-80	11,275	11,229	3,309 GL	Potts Fed. Com.

Csg. Size	Wt.	d	Set At	Perforations	Well No.
5½	17#		11,275	From 10,852 To 10,974	2

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
27/8	6.5		10,806	From Open To End	F	13	20S	27E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	10,806	Eddy

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tbg.	182 @ 10,806	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,806	10,806	.618	.013	.013			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					3100				24 hrs
1.	4 X 1.750	605	3.0	104	2890				1 hr.
2.	4 X 1.750	600	6.0	99	2590				1 hr
3.	4 X 1.750	605	13.0	92	2240				1 hr.
4.	4 X 1.750	605	24.0	90	1680				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	14.93	43.07	618.2	.9602	1.272	1.042	818
2	14.93	60.66	613.2	.9645	1.272	1.044	1160
3	14.93	89.65	618.2	.9706	1.272	1.047	1730
4	14.93	121.81	618.2	.9723	1.272	1.047	2355
5							

NO	P_t	Temp. °R	T_f	Z
1	.92	564	1.56	.921
2	.91	559	1.54	.918
3	.92	552	1.52	.913
4	.92	550	1.52	.913
5				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .618 XXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 362 R R

P_c 3113.2 P_c^2 9692.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2904.7	8437.3	1254.7
2		2606.0	6791.2	2900.8
3		2260.3	5109.0	4583.0
4		1634.3	2670.9	7021.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.380$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.295$

Plotted

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.051$

-6-

Absolute Open Flow: 3,051 Mcfd @ 15.025 | Angle of Slope θ: 51.250 | Slope, n: .803

Remarks: NO FLUID DURING TEST

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DAVIS SERVICES INC.	LARRY DAVIS	