Wellhead

W MEXICO OIL CONSERVATION CO SSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
FEB 2 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1/27/78	
Company: Gulf Oil Corp.	Connection: Air			
Pool: ~~Undesignated~~ Burton Flat Morrow	Formation: Morrow			Unit: O
Completion Date: 1/18/78	Total Depth: 11407	Plug Back TD: 11366	Elevation: 3333	Farm or Lease Name: Potts Federal
Csg. Size: 5 1/2 / Wt.: 17 / d: / Set At: 11407	Perforations: From 10914 To 11129			Well No.: # 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 10852	Perforations: From To			Unit: O / Sec.: 13 / Twp.: 20 / Rge.: 27
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 10852			County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 183 @ 10852	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
10852	10852	.627	3.24	.37			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					2930				48 Hr
1.	4 X 1.000	500	10.0	63	2730				1 Hr
2.	4 X 1.000	500	19.0	90	2620				1 Hr
3.	4 X 1.000	500	40.0	93	2390				1 Hr
4.	4 X 1.000	500	80.0	93	2085				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	71.64	513.2	.9971	1.263	1.050	450
2.	4.753	98.75	513.2	.9723	1.263	1.042	601
3.	4.753	143.28	513.2	.9697	1.263	1.041	868
4.	4.753	202.62	513.2	.9697	1.263	1.041	1228
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.77	523	1.42	.907
2.	.77	550	1.49	.921
3.	.77	553	1.50	.923
4.	.77	553	1.50	.923
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .627 (XXXXXXXXX)
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. (P.S.I.A.)
Critical Temperature: 368 R (R)

P_c 2943.2 P_c^2 8662.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2745.1	7535.6	1126.9
2		2635.7	6946.9	1715.5
3		2408.7	5801.8	2860.6
4		2109.7	4450.8	4211.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.057$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.744$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.141$

Posted 2 hr SIP 2/3/78

Absolute Open Flow: 2,141 Mcfd @ 15.025 Angle of Slope θ: 52.25° Slope, n: .771

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Larry Davis	Larry Davis	