

Pool Emmet Form Queen Lea
 Initial X Annual 9-21-56
 Company Gulf Oil Corporation Sunshine No. 2
 Unit N Sec. 30 Twp. 20S R. 37E Meridian Basin FL Co.
 Casing 5-1/2" Wt. 17.0# I.D. 4.892" Set at 3722' 3310' 3522'
 Tubing 2-3/8" Wt. 4.7# I.D. 1.995" Set at 3588'
 Gas Pay: From 3310 To 3522 1 3310 0.670 2218 Bar.Press. 13.2
 Producing Thru: Casing X Tubing Well Single Completion
 Date of Completion: 6-28-55 Packer No

OBSERVED DATA

Tested Through (Success) (Open) (Meter) Type Taps Pipe

No.	Flow Data					Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. ft.	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>953.3</u>		<u>72</u>
1.	<u>4</u>	<u>2.50</u>	<u>460.0</u>	<u>5.5</u>	<u>67</u>	<u>881.5</u>		<u>24</u>
2.	<u>4</u>	<u>2.50</u>	<u>463.9</u>	<u>10.8</u>	<u>60</u>	<u>868.2</u>		<u>24</u>
3.	<u>4</u>	<u>2.50</u>	<u>469.2</u>	<u>21.1</u>	<u>58</u>	<u>813.6</u>		<u>24</u>
4.	<u>4</u>	<u>2.50</u>	<u>466.0</u>	<u>33.4</u>	<u>58</u>	<u>811.0</u>		<u>24</u>
5.								

No.	Coefficient (24-Hour)	Y	Z	W	Compress. Factor	Rate of Flow Q-MCFPD @ 14.7 psia
1.	<u>54.44</u>	<u>51.02</u>	<u>473.2</u>	<u>0.9933</u>	<u>0.9463</u>	<u>2723</u>
2.	<u>54.44</u>	<u>78.78</u>	<u>477.1</u>	<u>1.0000</u>	<u>0.9463</u>	<u>3868</u>
3.	<u>54.44</u>	<u>100.90</u>	<u>482.1</u>	<u>1.0019</u>	<u>0.9463</u>	<u>5458</u>
4.	<u>54.44</u>	<u>126.50</u>	<u>479.2</u>	<u>1.0019</u>	<u>0.9463</u>	<u>6843</u>
5.						

CO2 - 2.91%
 N2 - 1.75%

Gas Liquid Hydrocarbon Ratio Separator Gas
 Gravity of Liquid Hydrocarbons 1.812 (14.7°F) 0.112 966.5 934.1

No.	P _t (psia)	P _w	P _c	P _w /P _c	P _w /P _c	Cal. P _w /P _c	P _w /P _c
1.	<u>894.7</u>	<u>800.5</u>	<u>4.940</u>	<u>24.40</u>	<u>3.165</u>	<u>804.0</u>	<u>896.7</u>
2.	<u>881.4</u>	<u>776.9</u>	<u>7.009</u>	<u>49.13</u>	<u>6.976</u>	<u>783.9</u>	<u>885.4</u>
3.	<u>856.8</u>	<u>734.1</u>	<u>9.890</u>	<u>97.81</u>	<u>13.890</u>	<u>748.0</u>	<u>864.9</u>
4.	<u>824.2</u>	<u>679.3</u>	<u>12.400</u>	<u>153.8</u>	<u>21.840</u>	<u>701.1</u>	<u>837.3</u>
5.							

Absolute Potential: 27,434 1.00
 COMPANY Gulf Oil Corporation
 ADDRESS Box 2167, Hobbs, N.M.
 AGENT and TITLE
 WITNESSED
 COMPANY

Retest. Average slope in excess of 1.00. Slope of 1.00 drawn through highest rate of flow

11/15/56
 GAS INDUSTRY

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .