

NEW MEXICO OIL CONSERVATION COMMISSION

WIS A. UTZ
MANAGER

HOBBS OFFICE 000

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

1955 OCT 10 PM 3:06

Pool Parsons Formation Oriskany County Lea

Initial 2 Annual Special Date of Test 8-10-56

Company Gulf Oil Corporation Lease Culp B. V. "A" Well No. 1

Unit F Sec. 19 Twp. 19E Rge. 37E Purchaser Parsons Basin Fl. Co.

Casing 7 Wt. 24 I.D. 6.336 Set at 1811 Perf. 3423 To 3570

Tubing 2.375 Wt. 4.7 I.D. 1.995 Set at 3992 Perf. To

Gas Pay: From 3423 To 3570 L 3423 xG .670 -GL 2293 Bar. Press. 13.2

Producing Thru: Casing 2 Tubing Type Well OO Dual

Date of Completion: 8-11-56 Packer 3760 Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.

OBSERVED DATA

Tested Through () (Meter) Type Taps Flpo

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	
SI									
1.	1/2	2.75	150.3	7.5	81			1002.0	72
2.	1/2	2.75	150.1	11.3	81			981.3	75
3.	1/2	2.75	150.1	20.6	81			951.3	75
4.	1/2	2.75	150.1	21.1	80			921.3	75
5.								792.6	75

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	73.11	99.16	156.7	.9990	.963	1.005	1873
2.	73.11	72.30	158.3	.9990	.963	1.004	2215
3.	73.11	215.00	159.3	.9990	.963	1.005	1904
4.	73.11	150.00	170.3	.9992	.963	1.006	1616
5.							

OR 2.207
NR 2.887

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons 0.752 deg.
 F_c 0.752 (1-e^{-s}) 0.216

Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 1045.2 P_c² 1092.3

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	712.7	507.8	3.213	10.32	1.807	507.8	137.3	712.7	88
2.	712.7	507.8	3.982	15.86	2.215	507.8	137.3	712.7	88
3.	712.7	507.8	6.890	47.26	5.776	712.7	237.2	649.0	90
4.	712.7	507.8	7.607	57.87	6.169	648.7	189.7	627.7	78
5.									

Absolute Potential: 21,000 MCFPD; n 0.76
 COMPANY Gulf Oil Corporation
 ADDRESS Box 267, Hobbs, N.M.
 AGENT and TITLE
 WITNESSED
 COMPANY

REMARKS

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 .

Gulf Oil Corporation
 Culp, B. V. "A" No. 3
 F-19-198-37E, Lea Co.
 Tumont Pool
 8-10-56

LOGARITHMIC 359-110
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 2 CYCLES



