

WELL HEAD PRESSURE TEST FOR GAS WELLS

Well Jalmat Location Yates - Seven Rivers County Lea

Initial Special X Date of Test 6-15/6-19-64

Company Dalport Oil Corporation Name W. H. King Well No. 1

Grid M 6 23 37 Purchaser El Paso Natural Gas Company

Casing 5 1/2" 14 2847 Perf. To

Tubing 2" 4.7 3209 Perf. To

Gas rate from 3038 to 3450 3209 xG .651 -GL 2089 Bar.Press. 13.2

Production Single X Type Well Single

Date of Completion Oct 30, 1949 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.

RESERVED DATA

Tested Through (Proven) (Choke) (Meter) Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Flow) (Gpm)	(Griffine) (Gpm)	Press. (psia)	Diff. (in)	Temp. (°F.)	Press. (psig)	Temp. (°F.)	Press. (psig)	Temp. (°F.)	
SI										
1.	4	1.250	518	6.76	76	519				72
2.	4	1.250	490	19.36	76	491				24
3.	4	1.250	445	43.56	77	446				24
4.	4	1.250	385	72.25	76	386				24
5.										

FLOW CALCULATIONS

No.	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia	
9.643	59.92	.9850	.9601	1.049	573.2
9.643	98.70	.9850	.9601	1.046	941.5
9.643	141.28	.9850	.9601	1.042	1,340
9.643	169.42	.9850	.9601	1.036	1,603

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Dry Specific Gravity Separator Gas None
 Gravity of Liquid None Specific Gravity Flowing Fluid .651
9.936 0.134 P_c 567.2 P_c^2 321.7

No.	P_w (psia)	P_c	$(F_{cg})^2$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	532.2	203.2	5.695	32.433	4.35	287.5	34.2
2.	504.2	254.2	9.355	87.516	11.73	265.9	55.8
3.	459.2	210.9	13.314	177.262	23.75	234.6	87.1
4.	399.2	154.4	15.927	253.669	33.99	193.4	128.3
5.							

Absolute Potential 4,300 $P_{w,0}$ 48.5
 COMPANY Dalport Oil Corporation
 ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas
 AGENT and TITLE Geologist
 WITNESSED J. B. Murray
 COMPANY El Paso Natural Gas Company, Jal, New Mexico

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} = Supercompressability 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 .

DALPORT OIL CORPORATION
 W.H. KING #1
 M-6-24-37
 LEA COUNTY, NEW MEXICO
 6-19-64

