

Pool Jalisco Formation 1947 10:28 County Los

Initial Annual Special I Date of Test 6-24/28 1957

Company El Paso Natural Gas Company Lease Wells B-4 Well No. 1

Unit D Sec. 4 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Company

Casing 7 Wt. 24.0 I.D. Set at 3364 Perf. 2958 To 3152

Tubing 2 Wt. 4.7 I.D. Set at 2995 Perf. To

Gas Pay: From 2985 To 3152 L 2995 XG 0.660 -GL Bar.Press. 13.2

Producing Thru: Casing Tubing I Type Well Single

Date of Completion: July, 1948 Packer None Reservoir Temp. Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps Flange

No.	(Prover) (Line) (Size)	(Choke) (Orifice) (Size)	Flow Data			Tubing Data			Casing Data			Duration of Flow Hr.
			Press.	Diff.	h _w	Temp.	Press.	Temp.	Press.	Temp.	Temp.	

No.	(Prover) (Line) (Size)	(Choke) (Orifice) (Size)	Press.	Diff.	h _w	Temp.	Press.	Temp.	Press.	Temp.	Temp.	Duration of Flow Hr.
1.	1.000	528	4.00	77	670		670		670		72	
2.	1.000	550	4.84	76	610		610		612		24	
3.	1.000	518	9.61	74	587		587		592		24	
4.	1.000	556	13.68	76	575		575		582		24	
5.	1.000	556	13.68	76	575		575		582		24	

through point representing highest rate of flow.

No.	Coefficient F _{tg} . (24-Hour)	$\sqrt{h_{wp}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	6.135	46.56	.9840	.9535	1.053	288	
2.	6.135	52.20	.9850	.9535	1.056	317	
3.	6.135	73.03	.9868	.9535	1.054	444	
4.	6.135	88.26	.9850	.9535	1.056	568	
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl. deg. (1-e^{-s})
Specific Gravity of Liquid Hydrocarbons Measured
Specific Gravity Separator Gas P_c 683.2
Specific Gravity Flowing Fluid P_c 466.8

No.	P _h	P _t (psia)	P _c	(F _{cd}) ²	(F _{cd}) ² (1-e ^{-s})	P _w ²	P _c -P _w ²	Cal. P _w	P _w
1.	629.2	395.9	395.9		397.2	69.6	610.2	62.8	62.8
2.	629.2	398.1	398.1		390.9	75.9	645.2	68.2	68.2
3.	600.2	360.2	360.2		366.3	100.5	646.2	89.2	89.2
4.	588.2	346.0	346.0		354.3	112.5	595.2	87.2	87.2
5.									

Absolute Potential: 2.350 MCFPD; n 1.000
Company El Paso Natural Gas Company
Address P. O. Box 1384, Jalisco, New Mexico
AGENT and TITLE W. T. Wright - Petroleum Engineer
WITNESSED Earl G. Smith
Company El Paso Natural Gas 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 .

El Paso Nat. Gas Co.

~~Westates Petr. Corp.~~

Wells B-4 #1

D-4-25-37, Lea Co., N.M.

6-28-1957

