

MULTI-POINT PRODUCTION

Pool Jalmat Yates LeeInitial Annul Start X 10-29 to 11-2-56Company Shell Oil Company Lease Devonian Christmas 2Unit B Sec. 21 Twp. 22 S Rge. 36 E El Paso Natural Gas CompanyCasing 7 Wt. 24 I.D. Set at 3688 3120 3370Tubing 2 1/2 Wt. 6.5 I.D. 2.441 Set at 3374Gas Pay: From 3120 To 3370 3370 .650 2191 13.2Producing Thru: Casing Re- X SingleDate of Completion: 9-13-52 3023Tested Through (Prove) (Shut-in) (Flow) Flange

Flow Data

No.	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F	Rate of Flow GPM
SI						686
1.	1/4	1.250	600	5.76	93	663
2.	1/4	1.250	599	7.84	69	647
3.	1/4	1.250	588	14.44	72	628
4.	1/4	1.250	592	25.00	71	598*
5.						

*Not enough drawdown because of high line pressure

No.	Coefficient Flg. (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Rate of Flow G-MCPD @ 14.025 psia
1.	9.643	59.42	.9697	.9608
2.	9.643	69.27	.9915	.9608
3.	9.643	93.16	.9887	.9608
4.	9.643	122.99	.9896	.9608
5.				

PRESSURE DATA

Gas Liquid Hydrocarbon Ratio of/bbl.
 Gravity of Liquid Hydrocarbons sp. gr.
 F_c 9.936 (1-e⁻³) .140 599.2 488.9

No.	K _x P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ³	P _w P _c
1.	676.2	457.2	5.59	31.25	4.4	461.6
2.	660.2	435.9	6.71	45.02	6.3	442.2
3.	641.2	411.1	8.96	80.28	11.2	422.3
4.	611.2	373.6	11.89	141.37	19.8	393.4
5.						

Absolute Potential: 4,400 .801COMPANY Shell Oil CompanyADDRESS P. O. Box 845, Roswell, New MexicoAGENT and TITLE R. C. Cabaniss, District EngineerWITNESSED Edward MabeCOMPANY El Paso Natural Gas Company

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 .

SHELL OIL CO.
 DEV CHRISTMAN #1.
 Sec. 21-T25, T26, Lea Nat.
 H-2.16

