NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates - 7 Rivers County Lea

Initial ____ Annual ____ Special X Date of Test 5-9-58

Company Delport Oil Corporation Lease Christmas Well No. 1

Unit O Sec. 25 Twp. 22 Rge. 36 Purchaser El Paso Natural Gas Co

Casing 5½ Wt. 15.5 I.D. ____ Set at 2920 Perf. ____ To ____

Tubing 2 Wt. 4.7 I.D. ____ Set at 3092 Perf. ____ To ____

Gas Pay: From 3125 To 3240 L 3092 xG .670 -GL 2072 Bar.Press. 13.2

Producing Thru: Casing ____ Tubing x Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of RE Completion: 4-24-58 Packer None Reservoir Temp. ____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

	Flow Data					Tubing Data		Casing Data		
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
SI						763		768		72
1.	4	1.250	712	18.06	70	714		753		24
2.	4	1.250	671	41.60	68	675		732		24
3.	4	1.250	640	61.62	68	646		715		24
4.	4	1.250	602	89.30	66	613		697		24
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	114.44	725.2	.9905	.9463	1.080	1118
2.	9.643	168.69	684.2	.9924	.9463	1.073	1640
3.	9.643	200.60	653.2	.9924	.9463	1.069	1941
4.	9.643	234.35	615.2	.9943	.9463	1.066	2266
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas .670
Specific Gravity Flowing Fluid ____
P_c 781.2 P_c^2 610.3

No.	P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	727.2	528.8	61.5			587.1	23.2		
2.	688.2	473.6	136.7			555.3	55.0		
3.	659.2	434.5	175.8			530.3	80.0		
4.	626.2	392.1	218.2			504.4	105.9		
5.									

Absolute Potential: 5750 MCFPD; n .500
COMPANY Delport Oil Corporation
ADDRESS 930 Fidelity Union Life Bldg
AGENT and TITLE [signature] President
WITNESSED Earl G. Smith
COMPANY El Paso Nat Gas Co

REMARKS

In accordance with Rule 15 Jalmat Gas Pool deliverability procedure average slope of .771 shall be used to calculate deliverability.

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_c.