

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Delart Formation Yates - 7 Rivers County Lee
Initial _____ Annual _____ Special X Date of Test 5-9-58
Company Delart Oil Corporation Lease L. E. King Well No. 1
Unit M Sec. 31 Twp. 22 Rge. 37 Purchaser El Paso Natural Gas Co
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 2378 Perf. _____ To _____
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 3123 Perf. _____ To _____
Gas Pay: From 3160 To 3175 L 3123 xG .660 -GL 2061 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
No Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-23-58 Packer None Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						686		688		72
1.	4	1.000	660	8.11	79	661		664		24
2.	4	1.000	641	16.00	76	642		648		24
3.	4	1.000	616	28.09	79	618		628		24
4.	4	1.000	577	51.12	74	579		604		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.	6.135	75.23	673.2	.9822	.9535	1.066	462
2.	6.135	102.29	654.2	.9850	.9535	1.062	627
3.	6.135	132.92	629.2	.9822	.9535	1.059	808
4.	6.135	173.67	590.2	.9868	.9535	1.057	1065
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio dry cf/bbl. Specific Gravity Separator Gas .660
Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
F_c _____ (1-e^{-s}) P_c 701.2 P_c² 491.7

No.	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 /F _c
1.	674.2	454.5				453.6	33.1		
2.	655.2	429.3				437.2	51.5		
3.	631.2	398.4				411.1	30.6		
4.	592.2	350.7				380.9	110.8		
5.									

Absolute Potential: 2500 MCFPD; n .628
COMPANY Delart Oil Corporation
ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas
AGENT and TITLE W. L. Smith, President
WITNESSED Earl G. Smith
COMPANY El Paso Natural Gas Co

REMARKS