

HOBBS OFFICE O. C. C.

NEW MEXICO OIL CONSERVATION COMMISSION
Aug 25 3 06 PM '64

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool JALMAT Formation YATES County LLA
Initial X (Retest) Annual _____ Special _____ Date of Test 8-16-64
Company The Atlantic Refining Co. Lease Selby Well No. 5
Unit E Sec. 33 Twp. 22 S Rge. 36 E Purchaser El Paso Natural Gas
Casing 4.5 Wt. 9.5 I.D. 4.090 Set at 3800.15 Perf. 3115 To 3195
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3100.12 Perf. NA To NA
Gas Pay: From 3115 To 3195 L 3100 xG .683 -GL 2117 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing x Type Well Single
Date of Completion: 7-14-64 Packer 3065.5 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 1000 F

OBSERVED DATA

Tested Through (Prover) (CHOKE) (Meter) Type Taps NA

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										
1.	2	1 1/4	14.7		81	406				22
2.	2	1 1/4	23.6		78	373	78			1
3.	2	1 1/4	35.4		78	345	70			1
4.	2	1 1/2	26.5		76	263	80			1
5.					76	127	78			1

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.	35.6738 ✓		27.9	.9804 ✓	.9373 ✓	NA	914.6 ✓
2.	35.6738 ✓		36.8	.9831 ✓	.9373 ✓	NA	1200.7 ✓
3.	35.6738 ✓		48.6	.9831 ✓	.9373 ✓	NA	1592.6 ✓
4.	54.3653 ✓		39.7	.9850 ✓	.9373 ✓	NA	1992.5 ✓
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio NA cf/bbl.
Gravity of Liquid Hydrocarbons NA deg.
P_c 9.936 (1-e^{-s}) 0.136
Specific Gravity Separator Gas .683
Specific Gravity Flowing Fluid .683
P_c 419.2 P_c 175.7

No.	P _w 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 /P _c
1.	35.2	1239.24	9.14	82.8	71.3	140.5	15.2	140.5	95.3
2.	36.2	1310.44	12.3	144.0	129.6	147.9	22.5	147.9	92.7
3.	37.2	1380.84	15.9	252.8	211.1	150.9	55.06	150.9	91.4
4.	39.2	1536.64	19.6	384.2	332.2	153.0	102.7	153.0	90.5

Absolute Potential: 31500 MCFPD; n .118771
TITLE EL PASO NATURAL GAS CO.
REMARKS

1. A curve with a slope of 0.5 was drawn through the data point
2. to the lowest rate of flow. Absolute potential by this method is

ILLEGIBLE

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