

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Undesignated Formation Cisco County Eddy
Initial X Annual _____ Special _____ Date of Test 7-2-64
Company The Atlantic Refining Company Lease Walt Canyon Unit Well No. 2
Unit D Sec. 4 Twp. 22 S Rge. 24 E Purchaser _____
Casing 4.5 Wt. 11.6 I.D. 4.000 Set at 7700' Perf. 7570' To 7600'
Tubing 2.375 Wt. 4.7 I.D. 1.995 Set at 7518' Perf. None To _____
Gas Pay: From 7570' To 7600' L 7518 xG .670 -GL 5037 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 6-28-64 Packer 7511 Reservoir Temp. 118° F

OBSERVED DATA

Tested Through (Packer) (Globe) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Globe) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2362				72
1.	3	2.250	100	25	90	2337	91			3
2.	3	2.000	600	42	70	2232	83			4
3.	3	2.000	700	70	64	2115	80			3
4.	3	2.250	550	100	40	1770	90			3
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.	37.15	50.00	100	.9723	.9682	1.008	1.763
2.	27.52	158.75	600	.9905	.9682	1.057	4.428
3.	27.52	221.38	700	.9962	.9682	1.072	6.289
4.	37.15	234.52	550	1.0198	.9682	1.068	9.187
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 92.420 cf/bbl.
Gravity of Liquid Hydrocarbons 59.2 @ 60% deg.
P_c 9.936 (1-e^{-s}) .306

Specific Gravity Separator Gas 0.641
Specific Gravity Flowing Fluid 0.670
P_c 2380.2 P_c² 5,665.4

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.	2350.2	5523	17.5	306	94	5523.5	141.9	2350.3	99
2.	2245.2	5041	14.0	1936	592	5041.5	623.9	2245.3	94
3.	2122.2	4529	62.6	3819	1169	4530.4	1135.0	2128.5	89
4.	1973.2	3180	91.3	8335	2551	3182.4	2483.0	1783.9	75
5.									

Absolute Potential: 17,600 MCFPD; n 0.63

Company The Atlantic Refining Company
Post Office Box 1000, Amarillo, New Mexico
and TITLE Ray Allen, Senior Operations Engineer

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JUL 28 1964

FORM 125

O. C. C.