

NEW MEXICO OIL CONSERVATION COMMISSION

NOV 21 AM 9 55

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Bagley Lower Penn Gas Formation Pennsylvanian County Lea
Initial X Annual _____ Special _____ Date of Test 6-13-58
Company Amerada Petroleum Corporation Lease State BT#0" Well No. 1
Unit 0 Sec. 34 Twp. 11 S Rge. 33 E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 17 I.D. 4.892 Set at 9775 Perf. 9766' To 9820'
Tubing 2 1/2 Wt. 3.4 I.D. 1.750 Set at 9744 Perf. Open ended To _____
Gas Pay: From 9766 To 9820 L 9744 xG* .690 -GL 7756 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Gas Oil Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-15-57 Packer 9740 Reservoir Temp. 158

OBSERVED DATA

Tested Through (Pressure) (Choke) (Manometer) Type Taps _____
*Gravity not available. Gravity from Amerada BT#K" #1 used in calc.

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						1990		72
1.	4	1.250	684	12.96	94	1855		24
2.	4	1.250	676	28.09	71	1742		24
3.	4	1.250	628	51.84	64	1602		24
4.	4	1.250	666	70.56	73	1447		24
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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	95.04	111.2	.9688	.9325	1.068	877
2.	9.643	139.12	67.2	.9896	.9325	1.076	1332
3.	9.643	182.29	62.2	.9943	.9325	1.069	1742
4.	9.643	218.89	67.2	.9877	.9325	1.078	2096
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 23.6 cf/bbl.
Gravity of Liquid Hydrocarbons 40 (Assumed) deg. API
F_c 13.99 (1-e^{-S}) .4135

Specific Gravity Separator Gas .690
Specific Gravity Flowing Fluid .7389
P_c 2003.2 P_c 4012.8 (Assumed)

No.	P ₁ 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.	1848.2	3410.2	12.27	150.55	62.25	3352.5	460.3	1885	94
2.	1745.2	3036.7	18.63	347.08	143.52	3224.2	782.6	1796	90
3.	1615.2	2608.9	24.37	593.90	245.58	2854.5	1158.3	1690	84
4.	1460.2	2132.2	29.32	859.66	355.47	2487.7	1525.1	1577	79
5.									

Absolute Potential: 4,500 MCFPD; n .754

COMPANY Amerada Petroleum Corporation

ADDRESS Remell Star Route - Tatum, New Mexico

AGENT and TITLE R.E. Braschat - District Engineer

WITNESSED _____

COMPANY _____

REMARKS _____

O 34-115-33E LEA CO.
6-13-58

