

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Lea Pennsylvanian Formation Bend County Lea
Initial X Annual Special Date of Test 6-3 & 6-4-65
Company Marathon Oil Company Lease Lea Unit Well No. 11
Unit N Sec. 13 Twp. 20S Rge. 34E Purchaser Llano, Inc.
Casing 7" Wt. 29# I.D. 6.184 Set at 14,371 Perf. *12,824 To 12,919
Tubing 2 3/8" Wt. 4.7 I.D. 1.995 Set at 12,682 Perf. Open ended To
Gas Pay: From 12,824 To 12,919 L 12,733 xG - -GL - Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 5-28-65 Packer 12,682 Reservoir Temp. 180°F @ 12,600'

OBSERVED DATA

Tested Through (XXXXXX) (XXXXXX) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(XXXXXX) (Line) Size	(XXXXXX) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						4746		Pkr.	-	96 hr. SI
1.	4"	1"	1090	17	78	4543	-	Pkr.	-	3
2.	4"	1.50	1110	14	68	4243	-	Pkr.	-	2
3.	4"	1.50	1145	27	69	3905	-	Pkr.	-	2
4.	4"	1.50	1240	73	70	3105	-	Pkr.	-	2
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	137.01	1103.2	0.9831	0.9400	1.116	867
2.	13.99	125.41	1123.2	0.9924	0.9400	1.131	1851
3.	13.99	176.84	1158.2	0.9915	0.9400	1.131	2608
4.	13.99	302.47	1253.2	0.9905	0.9400	1.138	4484
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons 49.5 deg.
F_c (1-e^{-s})

Specific Gravity Separator Gas 0.679
Specific Gravity Flowing Fluid
P_c P_c²

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.									
2.			BHP METHOD						
3.									
4.									
5.									

Absolute Potential: 9569 MCFPD; n 0.90020COMPANY Marathon Oil CompanyADDRESS Box 220, Hobbs, N.M.AGENT and TITLE *Blair* Petr. Engr.WITNESSED COMPANY

	P _f & P _s	(P _f or P _s) ²	P _f ² - P _s ²	GLR	REMARKS	* Csg. Perfs: 12,824-33'; 12,912-19'
SI	6830.2	46,651.6	-	-		
1.	6591.2	43,443.9	3207.7	8088		
2.	6289.2	39,554.0	7097.6	9769		
3.	5970.2	35,643.3	11,008.3	8052		
4.	5184.2	26,875.9	19,775.7	7214		