

APR 14 1966 Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

ARTESIA, OFFICE

Pool Indian Basin Upper
Pennsylvanian Formation Cisco Canyon County Eddy

Initial X Annual _____ Special _____ Date of Test 4-11-66

Company Marathon Oil Company Lease Federal IBB Gas "Com" Well No. 1

Unit F Sec. 14 Twp. 22S Rge. 23E Purchaser Natural Gas Pipeline of America

Casing 5 1/2 Wt. 15.5 I.D. 4.950 Set at 7678 Perf. See Below* To _____

Tubing 2 3/8 Wt. 4.6 I.D. 1.995 Set at 7505 Perf. Scalloped To _____

Gas Pay: From 7543 To 7564 L NA xG NA -GL NA Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single - Gas

Date of Completion: 4-11-66 Packer 7428 Reservoir Temp. 152°F @-3380'

OBSERVED DATA

Tested Through (~~Proven~~)xx(~~Choke~~) (Meter) Type Taps Flange

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Proven)xx(Choke) (Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						2339		94
1.	3"	1.500"	870	8.2	78	2270	-	1
2.	3"	1.500"	860	26.0	74	2200	-	1
3.	3"	1.500"	890	56.5	79	2078	-	1
4.	3"	1.500"	875	96.5	77	1958	-	1
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.	14.36	85.11	883.2	0.9831	0.9682	1.083	1260
2.	14.36	150.67	873.2	0.9868	0.9682	1.083	2239
3.	14.36	225.86	903.2	0.9822	0.9682	1.085	3346
4.	14.36	292.72	888.2	0.9840	0.9682	1.083	4337
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio See Below** cf/bbl.
Gravity of Liquid Hydrocarbons 60 deg.
P_c (1-e^{-s})

Specific Gravity Separator Gas 0.640
Specific Gravity Flowing Fluid _____
P_c 2900.2 P_c 8411

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.	2838.2					8055	356		97.86%
2.	2774.2					7696	715		95.65%
3.	2683.2	(BHP Method Used)				7200	1211		92.51%
4.	2592.2					6720	1691		89.38%
5.									

Absolute Potential: 15,187 MCFPD; n 0.78122
COMPANY Marathon Oil Company
ADDRESS P. O. Box 220, Hobbs, N.M.
AGENT and TITLE Jerry J. Hinger Petr. Engr.
WITNESSED _____
COMPANY _____

* Perforations: 7543-53'; 7560-64'. REMARKS
** GLR's: (1) 0
(2) 169,621:1
(3) 75,360:1
(4) 53,809:1