N MEXICO OIL CONSERVATION COMM ON

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 29 1981

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 8-13-81	
Company: AMOCO PRODUCTION COMPANY	Connection: EL PASO NATURAL GAS COMPANY		
Pool: UNDESIGNATED HAPPY VALLEY	Formation: MORROW		Unit:
Completion Date: 7-15-81	Total Depth: 11546.	Plug Back TD: 11508.	Elevation: 3345.
Farm or Lease Name: FLOYD COM			
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.892 / Set At: 11538	Perforations: From 10992 To 11474		Well No.: 1
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 10896	Perforations: From 0. To 0.		Unit: G / Sec.: 20 / Twp.: 22 / Rge.: 26
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: 10796.		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 186 @ 11715.	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2
State: NEW MEXICO			

L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11715	11715	0.598	1.11	0.36	0.	0.	4.0	FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3750.	73.			0.
1.	4.00 X 1.000	436.	10.2	77.	3655.	73.	0.	0.	0.7
2.	4.00 X 1.000	436.	32.8	84.	3510.	74.	0.	0.	0.7
3.	4.00 X 1.000	442.	56.2	87.	3381.	74.	0.	0.	0.7
4.	4.00 X 1.000	449.	86.5	89.	3245.	74.	0.	0.	0.7
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w p_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	4.75	67.82	449.2	0.9840	1.2035	1.0339	424.
2.	4.75	120.81	449.2	0.9777	1.2035	1.0323	750.
3.	4.75	160.02	456.2	0.9750	1.2035	1.0330	990.
4.	4.75	199.94	462.2	0.9732	1.2035	1.0321	1235.
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.66	537.	1.51	0.935
2.	0.66	544.	1.53	0.938
3.	0.67	547.	1.54	0.939
4.	0.68	549.	1.55	0.939
5.				

P_c 3760.9 P_c^2 14144.

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	13456.	3668.	13384.	760.
2	12413.	3507.	12301.	1843.
3	11338.	3352.	11236.	2908.
4	9974.	3144.	9888.	4256.
5				

Gas Liquid Hydrocarbon Ratio 0. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0. Deg.
Specific Gravity Separator Gas 0.598 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.598
Critical Pressure 677. P.S.I.A. 677 P.S.I.A.
Critical Temperature 355. R 355 R

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3233$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0755$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2552$

Absolute Open Flow 2559. Mcfd @ 15.025 Angle of Slope θ 58.7 Slope, n 0.603

Remarks:

Approved By Commission:	Conducted By:	Calculated By: Barbara Hommeline	Checked By: Larry Sheppard