NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOI AND ONE POINT BACK PRESSURE T FOR GAS WELL

SF file
Form C-122
Revised 9-1-65
+ C-122 file

RECEIVED
JUL 29 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 7-18-77	
Company: Western Oil Producers Inc.			Connection: El Paso Natural Gas Co.		Unit
Pool: E. Carlsbad Wolfcamp			Formation: Wolfcamp		
Completion Date: 6-2-77	Total Depth: 11895		Plug Back TD: 11838	Elevation: 3113GR 3126.6 KB	Farm or Lease Name: Hunker Comm.
Csg. Size: 5 1/2 / Wt.: 20# / d: 4.778 / Set At: 11838			Perforations: From 9643 To 9717		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5# / d: 2.441 / Set At: 11504			Perforations: From To		Unit: K / Sec.: 35 / Twp.: 21S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple			Packer Set At: 11504		County: Eddy
Producing Thru: Casing	Reservoir Temp. °F: 191 @ 11450	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9680	9680	0.671	1.3	.69			X	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI			L-10 F 3.162					3813		
1.	4"	x 1.250	6.5	1	102			3709	70	60 min.
2.	4"	x 1.250	6.6	1.75	103			3591	70	60 min.
3.	4"	x 1.250	6.55	3.25	96			3308	70	60 min.
4.	4"	x 1.250	6.6	6.35	74			2779	70	60 min.
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	7.469	20.553	422.5	0.9691	1.221	1.035	188.0
2.	7.469	36.521	435.6	0.9610	1.221	1.035	331.3
3.	7.469	67.311	429.0	0.9671	1.221	1.036	615.0
4.	7.469	132.519	435.6	0.9868	1.221	1.043	1243.9
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.63	562	1.49	0.934
2.	.65	563	1.49	0.933
3.	.64	556	1.47	0.931
4.	.65	534	1.41	0.919
5.				

Gas Liquid Hydrocarbon Ratio 11495/1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59.7° @ 60 °F Deg.
Specific Gravity Separator Gas 0.671 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx 0.903
Critical Pressure 672 P.S.I.A. 662 P.S.I.A.
Critical Temperature 378 R 457 R

P_c 3826.2 P_c^2 14640

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3684.8	13578	1062
2		3593.9	12916	1724
3		3322.2	11037	3603
4		2793.3	7803	6837
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.14117$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1412$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2663.4$

Absolute Open Flow 2663.4 Mcfd @ 15.025 Angle of Slope θ 45° 0' Slope, n 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.		