NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 7-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 7-14-77	
Company: INEXCO OIL COMPANY		Gathering Co.: EL PASO NATURAL GAS CO.			
Pool: WEST TONTO		Formation: MORROW			Unit:
Completion Date: 6-10-77	Total Depth: 13,647'		Plug Back TD: 13,347'	Elevation: 3665 GR.	Farm or Lease Name: FEDERAL 7
Csg. Size: 5½ / Wt.: 17# / d: 4.892" / Set At: 13,647'			Perforations: From 13,234' To 13,324'		Well No.: 1
Tbg. Size: 2 7/8" / Wt.: 6.5# / d: 2.441" / Set At: 13,110'			Perforations: From OPEN To ENDED		Unit: H / Sec.: 7 / Twp.: 19S / Rge.: 33E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 13,110'		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 196 @ 13,279'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13279	13279	0.6242	0.716	0.528	-0-		4"	FLANGE

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	L-10 h_w Diff.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						4577.0		PACKER	CHOKE	26 HRS.
1.	4"	x 1.750"	7.60	3.50	76	3994.0	87		8/64	60 MIN.
2.	4"	x 1.750"	7.60	5.70	83	3510.0	88		11/64	60 MIN.
3.	4"	x 1.750"	7.65	7.30	81	3100.0	89		13/64	60 MIN.
4.	4"	x 1.750"	7.65	8.80	80	2800.0	89		16/64	60 MIN.
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ L-10 METER FAC.	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.93	3.162	577.6	.9850	1.266	1.048	1641
2.	14.93	3.162	577.6	.9786	1.266	1.045	2648
3.	14.93	3.162	585.2	.9804	1.266	1.046	3423
4.	14.93	3.162	585.2	.9813	1.266	1.046	4130
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.86	536	1.48	.911
2.	0.86	543	1.50	.915
3.	0.87	541	1.50	.914
4.	0.87	540	1.50	.914
5.				

Gas Liquid Hydrocarbon Ratio	46.992	Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons	46.7 @ 60	Deg.
Specific Gravity Separator Gas	0.6242	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	
Critical Pressure	674 P.S.I.A.	P.S.I.A.
Critical Temperature	361 R	R

P_c 4590.2 P_c^2 21070

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	16058	4038.5	16309	4761
2	12413	3538.6	12522	8548
3	9692	3139.1	9854	11216
4	7914	2853.1	8140	12930
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} = 1.6295$ (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6295$

Abs. $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6730$

Absolute Open Flow: 6730 Mcfd @ 15.025 | Angle of Slope θ: 45.0° | Slope, n: 1.000 LIMIT

Remarks: L-10-100"-1000# RANGE METER & CHART
GOOD POINT ALIGNMENT BUT SLIGHTLY IN EXCESS OF 1.000 LIMITS. DREW 1.000 SLOPE THROUGH HIGHEST RATE OF FLOW TO CALCULATE POTENTIAL.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.C.T.	R.L.W.	J.W.W.