

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED @ 122
2/15/88

Type Test ☐ Initial ☐ Annual ☐ Special				Test Date 4-20-74		APR 29 1974	
Company INEXCO OIL COMPANY				Connection SOUTHERN UNION		O. C. C. ARTESIA, OFFICE	
Pool CATCLAW DRAW				Formation MORROW C-2 SAND		Unit	
Completion Date 10-13-73		Total Depth 11050		Plug Back TD 10940		Elevation KB 3361	
Farm or Lease Name ARCO FED. COM.							
Csg. Size 5 1/2"	Wt. 17#	d 4.892"	Set At 11050'	Perforations: From 10908' To 10923'		Well No. 1	
Tbg. Size 2 7/8"	Wt. 6.5#	d 2.441"	Set At 10617'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. D 20 21S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10598		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 187 @ 10915		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 10617	H 10617	Gg 0.5948	% CO ₂ 1.19	% N ₂ 0.22	% H ₂ S ---	Prover ---	Meter Run 4"
Taps FLANGE							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI	L-10 CHART READINGS						2030.0		PACKER	CHOKE	
1.	4"	x	2.00"	7.84	1.50	7.00	1807.0	72		6/64"	60 MIN.
2.	4"	x	2.00"	7.87	2.60	6.90	1555.0	71		10/64"	60 MIN.
3.	4"	x	2.00"	7.90	3.60	6.90	1162.0	71		14/64"	60 MIN.
4.	4"	x	2.00"	7.90	4.00	7.00	885.0	71		24/64"	60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	Meter Factor 100" - 1000#	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	3.162	614.7	.9868	1.296	1.048	987
2	19.81	3.162	619.4	.9896	1.296	1.049	1724
3	19.81	3.162	624.1	.9896	1.296	1.049	2397
4	19.81	3.162	624.1	.9868	1.296	1.048	2653
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.92	534	1.41	.911	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.93	531	1.50	.908	Specific Gravity Separator Gas 0.5948 X X X X X X X X
3	.93	531	1.50	.908	Specific Gravity Flowing Fluid X X X X X
4	.93	534	1.51	.910	Critical Pressure 668 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 353 R _____ R

$P_f = 2621.2$ $P_w^2 = 6870.7$				
NO.	P _f ²	P _w ²	P _w ²	P _c ² - P _w ²
1	3313	2333.2	5443.8	1426.9
2	2459	2018.2	4073.1	2797.6
3	1381	1663.2	2766.2	4104.5
4	806.8	1408.2	1983.0	4887.7
5				

$$(1) \frac{P_f^2}{P_c^2 - P_w^2} = 1.4057$$

$$AOF = Q \left[\frac{P_f^2}{P_c^2 - P_w^2} \right]^n = 3491$$

$$(2) \left[\frac{P_f^2}{P_c^2 - P_w^2} \right]^n = 1.3158$$

Absolute Open Flow 3491 Mcfd @ 15.025	Angle of Slope 51.1°	Slope, n 0.806
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Remarks: **Meter Range = 100" - 1000# - (0 to 150°)**
Bottom Hole pressures measured with Amerada gage @ 10915'

Approved By Commission:	Conducted By: <i>D.A.T.</i>	Calculated By: R. West	Checked By: <i>J.W.W.</i>
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