STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

JERRY APODACA
GOVERNOR

NICK FRANKLIN
SECRETARY

September 5, 1978

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Inexco Oil Company
1100 Milam Building
Houston, Texas 77002

Attention: Bill Hightower

Re: Form C-115, Operator's Monthly Report

Dear Mr. Hightower:

The Federal 10 Com Well No. 1 in Section 10, Township 21 South, Range 26 East is downhole commingled in the Avalon-Upper Pennsylvanian Gas Pool and Avalon Strawn Gas Pool. Please utilize these pool names in reporting production from the well and list the well in the "Commingled" section of the report in accordance with paragraph C.1. of Memorandum OMR-1. A copy of this memorandum is enclosed for your convenience. Further, the location of the Arroyo Federal well on the last page of the report is erroneously shown as Section 10 rather than Section 26.

Very truly yours,

R. L. STAMETS
Technical Support Chief

RLS/dr

cc: Bill Gressett

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 1 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8/24-27/77	
Company: Inexco Oil Company			Connection: El Paso Natural Gas Company		Unit: NA
Pool: Avalon (Upper Penn)			Formation: Upper Penn & Strawn		
Completion Date: 6/27/77	Total Depth: 11,100		Plug Back TD: 10,235'	Elevation: 3249 GR	Farm or Lease Name: Fed 10 State Com
Csg. Size: 5-1/2" / Wt.: 15.5 & 17 / d: 4.892 / Set At: 11,099'			Perforations: Upper Penn From 9456' To 9469'		Well No.: 1
Tbg. Size: 2-7/8" / Wt.: 6.5 / d: 2.441 / Set At: 9,082'			Perforations: Strawn From 9682' To 9686'		Unit: L / Sec.: 10 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Conventional			Packer Set At: 9,082'		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 186 @ 9500' est	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
9456	9456	0.60	nil	nil	nil	-----	4"	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	4 x 1.000				2062		packer		48 hr.
1.	4 x 1.000	410	3.3	68	1631	73	packer		24 hr.
2.	4 x 1.000	410	6.3	70	1517	75	packer		24 hr.
3.	4 x 1.000	423	10.2	70	1305	75	packer		23 hr.
4.	4 x 1.000	410	16.0	71	1146	77	packer		24 hr.
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	4.87	37.42	424.4	0.9924	1.2910	1.0361	242
2.	4.87	51.71	424.4	0.9905	1.2910	1.0355	334
3.	4.87	66.79	424.4	0.9905	1.2910	1.0365	432
4.	4.87	82.40	424.4	0.9896	1.2910	1.0352	531
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	0.63	528	1.47	0.932
2.	0.63	530	1.48	0.933
3.	0.65	530	1.48	0.931
4.	0.63	531	1.48	0.933
5.				

Gas Liquid Hydrocarbon Ratio	31.3 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	63.8 Deg.	
Specific Gravity Separator Gas	0.60	xxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	0.682
Critical Pressure	672 P.S.I.A.	668 P.S.I.A.
Critical Temperature	358 R	384 R

P_c 2065.8 P_c^2 4268

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2703	1635	2673	1595
2	2342	1521	2313	1955
3	1738	1312	1720	2547
4	1344	1154	1332	2936
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4535$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4535$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 772$

Absolute Open Flow 772 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.00

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M. Morris	computer	