



BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

August 30, 1979

Mr. Floyd Ray
Lynco Oil Corporation
5290 DTC Parkway, Building #2
Englewood, Colorado 80111

Re: Lynco Oil Corporation
Schumacher #3
E-18-30N-10W

Dear Mr. Ray:

The 1979 Annual Deliverability Test Report for the subject well shows a producing rate of 2 MCFPD compared to 303 MCFPD in 1977.

Please cause the well to be scheduled for casing failure tests including but not limited to a bradenhead test.

Contact this office by phone to schedule a witness for the tests.

If there are questions, please contact us.

Yours very truly,

A. R. Kendrick
District Supervisor

xc: U.S.G.S., Farmington
Reading file

ARK:no

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122-A
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTWELL DELIVERABILITY TEST REPORT FOR 19 79

POOL NAME <u>Basin</u>	POOL DEPTH <u>75</u>	FORMATION <u>Dakota</u>	COUNTY <u>San Juan</u>
---------------------------	-------------------------	----------------------------	---------------------------

COMPANY <u>LYNCO Oil Corp</u>			WELL NAME AND NUMBER <u>Schumacher #3</u>		
UNIT LETTER <u>E</u>	SECTION <u>18</u>	TOWNSHIP <u>30</u>	RANGE <u>10</u>	PURCHASING PIPELINE <u>EPNG</u>	
CASING O.D. - INCHES <u>2.875</u>	CASING I.D. - INCHES <u>2.441</u>	RET. AT DEPTH - FEET <u>7491</u>	TUBING O.D. - INCHES <u>1.660</u>	TUBING I.D. - INCHES <u>1.380</u>	TOP - TUBING PERF. - FEET <u>6320</u>
GAS PAY ZONE FROM <u>7058</u> TO <u>7168</u>		WELL PRODUCING THRU CASING TUBING		GAS GRAVITY <u>.674</u>	GRAVITY & LENGTH <u>4259</u>
DATE OF FLOW TEST FROM <u>6-17-79</u> TO <u>6-26-79</u>			DATE SHUT-IN PRESSURE MEASURED <u>7-2-79</u>		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWI)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
<u>0</u>	<u>121</u>	<u>120</u>	<u>121</u>	<u>-1.0</u>	<u>1</u>	<u>120</u>
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_w = (h + f)$	(j) Shut-in Casing Pressure (DWI)	(k) Shut-in Tubing Pressure (DWI)	(l) P_c - higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{P_c}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWI) for critical flow only
<u>120</u>	<u>120</u>	<u>0</u>	<u>552</u>	<u>552</u>	<u>44.6</u> <u>296</u>	<u>NA</u>

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
<u>2</u>	<u>.9917</u>	<u>.9958</u>	<u>2</u> MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-x})$	$(F_c Q_m)^2 (1000)$	$(1 - e^{-x}) (F_c Q_m)^2 (1000)$	P_c^2	$P_w^2 = P_c^2 + R^2$	$P_w = \sqrt{P_w^2}$
<u>.266</u>	<u>.04924</u>	<u>.0131</u>	<u>14641</u>	<u>14641.013</u>	<u>382.1</u>

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]^{\frac{1}{n}} =$	<u>2</u>	$\left[\frac{1228528}{103563} \right]^{\frac{1}{2}} =$	$\left[\frac{40165}{257843} \right]^{\frac{1}{2}} =$	$\frac{50444}{.8362} =$	<u>2</u> <u>1.000</u> MCF/D
--	----------	---	---	-------------------------	--------------------------------

REMARKS:

290304

SUMMARY

Item h	<u>120119</u>	Pela
P _c	<u>552</u>	Pela
Q	<u>2</u>	MCF/D
P _w	<u>382.1</u>	Pela
P _d	<u>44.6</u>	Pela
D	<u>2</u>	MCF/D

Company LYNCO Oil Corp
 By Larry T. Schmitts
 Title Field Engineer
 Witnessed By _____
 Company _____

689
303
125
345
250

6/27/79