

Initial Deliverability Test.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME

BASIN

POOL SLOPE

n = .75

FORMATION

DAKOTA

COUNTY

SJ

75-775

COMPANY

EL PASO NATURAL GAS CO

WELL NAME AND NUMBER

HUERFANO UNIT #174

UNIT LETTER

E

SECTION

13

TOWNSHIP

26

RANGE

10

PURCHASING PIPELINE

EL PASO NATURAL GAS CO.

CASING O.D. - INCHES

4.500

CASING I.D. - INCHES

4.052

SET AT DEPTH - FEET

6885

TUBING O.D. - INCHES

2.375

TUBING I.D. - INCHES

1.995

TOP - TUBING PERF. - FEET

6587

GAS PAY ZONE

FROM 6610 TO 6831

WELL PRODUCING THRU

CASING TUBING X

GAS GRAVITY

0.702

GRAVITY X LENGTH

4624

DATE OF FLOW TEST

FROM 06/27/68 TO 07/05/68

DATE SHUT-IN PRESSURE MEASURED

04/16/68

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(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.)
0	0	0	0	0	0	470
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _i = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P _c = higher value of (j) or (k)	(m) Del. Pressure P _d = 50 %P _c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
470	470	1980	1973	1980	990	

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
519	1.0000	1.0000	Q = 519 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.286	20,314	6811	220900	227711	477

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 519 \left[\frac{2940300}{3692689} \right]^n = (0.7962)^n = 0.8429 = 437 \text{ MCF/D}$$

REMARKS: New Well First Delivered 6-4-68.

SUMMARY

Item h

470

Psia

P_c

1980

Psia

Q

519

MCF/D

P_w

477

Psia

P_d

990

Psia

D

437

MCF/D

Company

EL PASO NATURAL GAS CO

By

[Signature]

Title

Witnessed By

Company

RECEIVED

JUL 30 1968

OIL CON. COM. DIST. 3

68/07424

2939 75-775

RECEIVED
JUL 30 1968

RECEIVED
JUL 30 1968

RECEIVED
JUL 30 1968

