

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME <u>Basin</u>		POOL SLOPE <u>n = .75</u>	FORMATION <u>DK</u>		COUNTY <u>RA</u>
COMPANY <u>El Paso Natural Gas Company</u>			WELL NAME AND NUMBER <u>San Juan 27-4 U. No. 55</u>		
UNIT LETTER <u>G</u>	SECTION <u>5</u>	TOWNSHIP <u>27</u>	RANGE <u>4</u>	PURCHASING PIPELINE <u>EPNG</u>	
CASING O.D. - INCHES <u>4.500</u>	CASING I.D. - INCHES <u>4.052</u>	SET AT DEPTH - FEET <u>8271</u>	TUBING O.D. - INCHES <u>1.900</u>	TUBING I.D. - INCHES <u>1.610</u>	TOP - TUBING PERF. - FEET <u>8237</u>
GAS PAY ZONE FROM <u>8057</u> TO <u>8256</u>		WELL PRODUCING THRU CASING _____ TUBING <u>XXX</u>		GAS GRAVITY <u>.591</u>	GRAVITY X LENGTH <u>4868</u>
DATE OF FLOW TEST FROM <u>6-21-71</u> TO <u>6-29-71</u>			DATE SHUT-IN PRESSURE MEASURED <u>6-29-71</u>		

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.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
400	400	2418	2449	2449	1225	

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
672	1.0000	1.0000	Q = 672 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_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.298	122348	36460	160000	196460	443

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{672}{\left(\frac{4496976}{5801141} \right)^n} = \left(.7751 \right)^n = .8261 = 555 \text{ MCF/D}$$

REMARKS:

New Well, 1st del., May 27, 1971.

SUMMARY

Item h 400 Psia
 P_c 2449 Psia
 Q 672 MCF/D
 P_w 443 Psia
 P_d 1225 Psia
 D 555 MCF/D

Company EL PASO NATURAL GAS COMPANY

By H. E. McDonald

Title _____

Witnessed By _____

Company _____



