

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME <u>Basin</u>		POOL SLOPE <u>n = .75</u>	FORMATION <u>DK</u>		COUNTY <u>San Juan</u>
COMPANY <u>El Paso Natural Gas Company</u>			WELL NAME AND NUMBER <u>70-844</u> <u>Allison Unit No. 1</u>		
UNIT LETTER <u>E</u>	SECTION <u>17</u>	TOWNSHIP <u>32</u>	RANGE <u>6</u>	PURCHASING PIPELINE <u>EPNG</u>	
CASING O.D. - INCHES <u>7.000</u>	CASING I.D. - INCHES	SET AT DEPTH - FEET <u>7930</u>	TUBING O.D. - INCHES <u>2.375</u>	TUBING I.D. - INCHES <u>1.995</u>	TOP - TUBING PERF. - FEET <u>8052</u>
GAS PAY ZONE FROM <u>7930</u> TO <u>8084</u>		WELL PRODUCING THRU CASING TUBING <u>XX 11</u>		GAS GRAVITY <u>.607</u>	GRAVITY X LENGTH <u>4888</u>
DATE OF FLOW TEST FROM <u>6-24-69</u> TO <u>7-2-69</u>			DATE SHUT-IN PRESSURE MEASURED <u>8-15-69</u>		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) <u>--</u>	(b) Flowing Tubing Pressure (DWt) <u>--</u>	(c) Flowing Meter Pressure (DWt) <u>--</u>	(d) Flow Chart Static Reading <u>--</u>	(e) Meter Error (Item c - Item d) <u>0</u>	(f) Friction Loss (a-c) or (b-c) <u>0</u>	(g) Average Meter Pressure (Integr.) <u>444</u> <u>456</u>
(h) Corrected Meter Pressure (g+e) <u>456</u>	(i) Avg. Wellhead Press. $P_i = (h+f)$ <u>456</u>	(j) Shut-in Casing Pressure (DWt) <u>2394</u>	(k) Shut-in Tubing Pressure (DWt) <u>2394</u>	(l) P_c = higher value of (i) or (k) <u>2394</u>	(m) Del. Pressure $P_d = \frac{50}{100} P_c$ <u>1197</u>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>286</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <u>1.0000</u>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <u>1.0000</u>	Corrected Volume $Q = \frac{286}{1.0000}$ <u>286</u> MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ <u>.299</u>	$(F_c Q_m)^2 (1000)$ <u>7231</u>	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ <u>2162</u>	P_i^2 <u>207936</u>	$P_w^2 = P_i^2 + R^2$ <u>210098</u>	$P_w = \sqrt{P_w^2}$ <u>458</u>
-----------------------------	-------------------------------------	--	--------------------------	--	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ <u>286</u>	$\left[\frac{4298427}{5521138} \right]^n =$ <u>0.7785</u>	$=$ <u>0.8288</u>	$=$ <u>237</u> MCF/D
--	---	----------------------	-------------------------

REMARKS:

SUMMARY

Item h 456 Psia
 P_c 2394 Psia
 Q 286 MCF/D
 P_w 458 Psia
 P_d 1197 Psia
 D 237 MCF/D
.9967

Company El Paso Natural Gas Company
 By [Signature]
 Title _____
 Witnessed By _____
 Company _____

