

Int.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

WELL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
---------------------------	------------------------------	-------------------------------------	---------------------------

87-138

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Herrin No. 1-Y		
UNIT LETTER K	SECTION 13	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2360	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2244 TO 2278		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .656	GRAVITY X LENGTH 1472 ✓
DATE OF FLOW TEST FROM 3-28-70 TO 4-5-70			DATE SHUT-IN PRESSURE MEASURED 1-5-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 215
(h) Corrected Meter Pressure (g+e) 215	(i) Avg. Wellhead Press. $P_i = (h+f)$ 215	(j) Shut-in Casing Pressure (DWt) 644	(k) Shut-in Tubing Pressure (DWt) ---	(l) P_w = higher value of (i) or (k) 644 ✓	(m) Del. Pressure $P_d = \frac{80}{515} P_i$ 515 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 408	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 408 MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.101	$(F_c Q_m)^2 (1000)$ 5129	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 518	P_i^2 46225	$P_w^2 = P_i^2 + R^2$ 46743	$P_w = \sqrt{P_w^2}$ 216 ✓
-----------------------------	-------------------------------------	---	-------------------------	---------------------------------------	--------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 408 ✓	$\left(\frac{149511}{367993} \right)^n =$.4063	$=$.4651	$=$ 190 ✓ MCF/D
---	---	------------------	------------------------

REMARKS: **New Well, first delivered 2-19-70.**

SUMMARY

Item h **215** ✓ Psia
P_c **644** ✓ Psia
Q **408** ✓ MCF/D
P_w **216** ✓ Psia
P_d **515** ✓ Psia
D **190** ✓ MCF/D

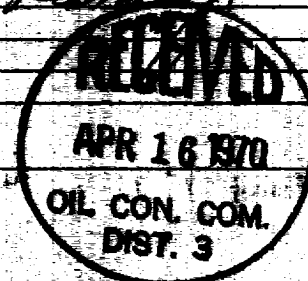
Company **EL PASO NATURAL GAS COMPANY**

By **D. E. McDaniel**

Title _____

Witnessed By _____

Company _____



OK