

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
--------------------	-----------------------	---------------------	--------------------

75-967

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 193		
UNIT LETTER J	SECTION 29	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6790	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6711
GAS PAY ZONE FROM 6506 TO 6736		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4550
DATE OF FLOW TEST FROM 5-5-69 TO 5-13-69			DATE SHUT-IN PRESSURE MEASURED 2-28-69		

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.) 443
(h) Corrected Meter Pressure (g+e) 443	(i) Avg. Wellhead Press. $P_t = (h+f)$ 443	(j) Shut-in Casing Pressure (DWt) 1944	(k) Shut-in Tubing Pressure (DWt) 1229	(l) P_c = higher value of (j) or (k) 1944	(m) Del. Pressure $P_d = .50 \%$ P_c 972	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 401	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 401 MCF/D
----------------------------------	---	--	-----------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.282	$(F_c Q_m)^2 (1000)$ 14213	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 4008	P_t^2 196249	$P_w^2 = P_t^2 + R^2$ 200257	$P_w = \sqrt{P_t^2}$ 448
----------------------	-------------------------------	---	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 401 \left[\frac{2834352}{3578879} \right]^n = (0.7919)^n = 0.8394 = 337 \text{ MCF/D}$$

REMARKS:

New Well First Delivered 3-19-69.

SUMMARY

Item h 443 Psia
P_c 1944 Psia
Q 401 MCF/D
P_w 448 Psia
P_d 972 Psia
D 337 MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. L. Kendrick
Title Regional Well Test Engineer
Witnessed By
Company



