

Initial
Deliverability

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
---------------------------	------------------------------	----------------------------	---------------------------

87-035

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 191		
UNIT LETTER E	SECTION 21	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6677	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6447
GAS PAY ZONE FROM 6430 TO 6649		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .722	GRAVITY X LENGTH 4655
DATE OF FLOW TEST FROM 9-13-69 TO 9-21-69			DATE SHUT-IN PRESSURE MEASURED 7-10-69		

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.) 434
(h) Corrected Meter Pressure (g+e) 434	(i) Avg. Wellhead Press. $P_t = (h+f)$ 434	(j) Shut-in Casing Pressure (DWt) 1982	(k) Shut-in Tubing Pressure (DWt) 1811	(l) P_c = higher value of (i) or (j) 1982	(m) Del. Pressure $P_d = 50$ 991	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 585	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 585$ MCF/D
----------------------------------	---	--	-------------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.287	$(F_c Q_m)^2 (1000)$ 30252	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 8682	P_t^2 188356	$P_w^2 = P_t^2 + R^2$ 197038	$P_w = \sqrt{P_w^2}$ 444
----------------------	-------------------------------	---	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 585 \left[\frac{2946243}{3731286} \right]^n = (.7896)^n = 0.8376 = 490 \text{ MCF/D}$$

REMARKS: New Well 1st Delivery-Aug. 15, 1969

SUMMARY

Item h 434 Psia
 P_c 1982 Psia
 Q 585 MCF/D
 P_w 444 Psia
 P_d 991 Psia
 D 490 MCF/D

Company El Paso Natural Gas Company
 By A. E. McAnally
 Title _____
 Witnessed By _____
 Company _____

