

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
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75-992

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 195		
UNIT LETTER C	SECTION 21	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6705	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6559
GAS PAY ZONE FROM 6484 TO 6551		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .701	GRAVITY X LENGTH 4598
DATE OF FLOW TEST FRCM 6-30-69 TO 7-08-69			DATE SHUT-IN PRESSURE MEASURED 5-08-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 405	(b) Flowing Tubing Pressure (DWt) 405	(c) Flowing Meter Pressure (DWt) 1701	(d) Flow Chart Static Reading 934	(e) Meter Error (Item c - Item d) 1701	(f) Friction Loss (a-c) or (b-c) Pd = 50 / 851 Pc	(g) Average Meter Pressure (Integr.) 405
(h) Corrected Meter Pressure (g+e) 405	(i) Avg. Wellhead Press. $P_t = (h+f)$ 405	(j) Shut-in Casing Pressure (DWt) 1701	(k) Shut-in Tubing Pressure (DWt) 934	(l) P_s = higher value of (j) or (k) 1701	(m) Del. Pressure Pd = 50 / 851 Pc	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2225	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 2225 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.284	$(F_c Q_m)^2 (1000)$ 437621	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 124184	P_t^2 164025	$P_w^2 = P_t^2 + R^2$ 288310	$P_w = \sqrt{P_w^2}$ 537
			288,309		

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ 2225	$\left(\frac{2169200}{2605092} \right)^n$ 0.8326	$\left(\frac{2169200}{2605092} \right)^n$ 0.8715	$= 1939$ MCF/D
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REMARKS:

New well 1st. del. June 3, 1969

SUMMARY

Item h 405 Psia
Pc 1701 Psia
Q 2225 MCF/D
Pw 537 Psia
Pd 851 Psia
D 1939 MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnail H. E. McAnail
Title Well Test Engineer
Witnessed By
Company

