

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME BLANCO	POOL SLOPE n = .75	FORMATION MV	COUNTY SJ
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70-050

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER HOWELL L #1		
UNIT LETTER N	SECTION 23	TOWNSHIP 30	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5579	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5202
GAS PAY ZONE FROM 4742 TO 5512		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.863	GRAVITY X LENGTH 3449
DATE OF FLOW TEST FROM 09/16/69 TO 09/24/69			DATE SHUT-IN PRESSURE MEASURED 08/12/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_f = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 794	(k) Shut-in Tubing Pressure (DWt) 794	(l) P_c = higher value of (j) or (k) 794	(m) Del. Pressure $P_d = 30\% P_c$ 635	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1267	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 1267$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.222	$(F_c Q_m)^2 (1000)$ 141,896	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 31501	P_i^2 214369	$P_w^2 = P_i^2 + R^2$ 245870	$P_w = \sqrt{P_w^2}$ 496
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	1267	$\left[\frac{227211}{384566} \right]^n =$	0.5908	$=$	0.6739	$=$	854 MCF/D
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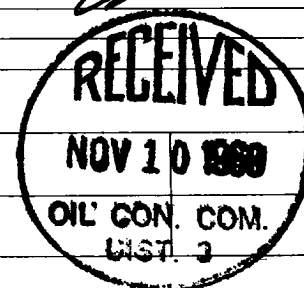
REMARKS:

OWO Re 1st Delivery Aug. 27, 1969.

SUMMARY

Item h **463** Psia
 P_c **794** Psia
 Q **1267** MCF/D
 P_w **496** Psia
 P_d **635** Psia
 D **854** MCF/D

Company **EL PASO NATURAL GAS CO**
 By **RE Stanger**
 Title _____
 Witnessed By _____
 Company _____



69/10/30

2182 70-050

PRESSURE DATA - ALL PRESSURES IN PSIA

LOW-BYTE CORRECTION - 15 BIT

WORKING PRESSURE CALCULATION

DELIVERABILITY CALCULATION

:2AE*0354

OWNO Re lat Delivery Aug. 27, 1969.

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1. *James*
 2. *John*
 3. *John*
 4. *James*
 5. *James*

