

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 SJ
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75-633

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER HUERFANO UNIT #161		
UNIT LETTER 0	SECTION 18	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6710	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6470
GAS PAY ZONE FROM 6512 TO 6624		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.645	GRAVITY X LENGTH 4173
DATE OF FLOW TEST FROM 05/13/69 TO 05/21/69			DATE SHUT-IN PRESSURE MEASURED 09/06/68		

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.) 436
(h) Corrected Meter Pressure (g+e) 436	(i) Avg. Wellhead Press. $P_t = (h+f)$ 436	(j) Shut-in Casing Pressure (DWt) 1145	(k) Shut-in Tubing Pressure (DWt) 1134	(l) $P_c =$ higher value of (i) or (k) 1145	(m) Del. Pressure $P_d = \frac{50}{573} \% P_c$ 573	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 482	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 482 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.262	$(F_c Q_m)^2 (1000)$ 20,539	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5381	P_t^2 190096	$P_w^2 = P_t^2 + R^2$ 195477	$P_w = \sqrt{P_w^2}$ 442
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 482	$\left(\frac{982696}{1115548} \right)^n =$ 0.8809	$=$ 0.9093	$=$ 438 MCF/D
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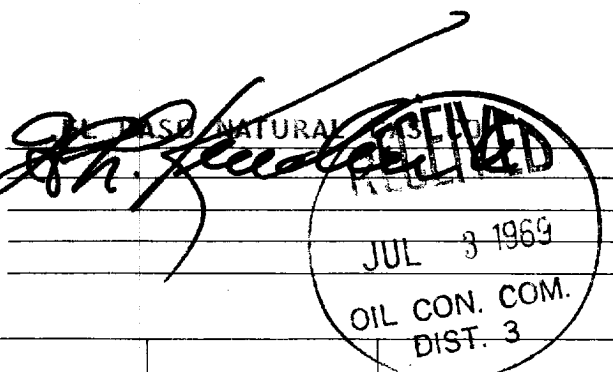
REMARKS:

Installed Piston Installation 4-15-69

SUMMARY

Item h **436** Psia
 P_c **1145** Psia
 Q **482** MCF/D
 P_w **442** Psia
 P_d **573** Psia
 D **438** MCF/D

Company
By
Title
Witnessed By
Company



PRESSURE DATA - A-1 PRESSURES IN PSI

ACQUA - WATER - MONITORING - DATA - WGLB

WORKING PRESSURE CALCULATION

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