

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

WELL NAME Ballard	WELL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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87244

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Kah-Des-Pah No. 1-Y		
UNIT LETTER I	SECTION 18	TOWNSHIP 26	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2063	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 1892 TO 1950		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .675	GRAVITY X LENGTH 1277
DATE OF FLOW TEST FROM 7-17-71 TO 7-25-71			DATE SHUT-IN PRESSURE MEASURED 5-26-71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI) ---	(b) Flowing Tubing Pressure (DWI) ---	(c) Flowing Meter Pressure (DWI) ---	(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.) 146
(h) Corrected Meter Pressure (g+e) 146 ✓	(i) Avg. Wellhead Press. $P_1 = (h+f)$ 146 ✓	(j) Shut-in Casing Pressure (DWI) 352	(k) Shut-in Tubing Pressure (DWI) ---	(l) P_c = higher value of (j) or (k) 352 ✓	(m) Del. Pressure $P_d = \frac{80}{282} P_c$ 282 ✓	(n) Separator or Dehydrator Pr. (DWI) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 123	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 123 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ ---Friction Negligible---	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_1^2	$P_w^2 = P_1^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 146
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 123 ✓	$\left[\frac{44380}{102588} \right]^n =$ 0.4326 ✓	$=$ 0.4905 ✓	$=$ 60 ✓ MCF/D
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REMARKS: New Well first delivered May 27, 1971

SUMMARY *OK*

Item h	146 ✓	Psia	Company	EL PASO NATURAL GAS COMPANY
P_c	352 ✓	Psia	By	<i>[Signature]</i>
Q	123 ✓	MCF/D	Title	
P_w	146 ✓	Psia	Witnessed By	
P_d	282 ✓	Psia	Company	
D	60 ✓	MCF/D		

