

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION DK	COUNTY SJ
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87-119

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER P. L. Davis No. 4		
UNIT LETTER A	SECTION 35	TOWNSHIP 26	RANGE 11	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6305	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6042
GAS PAY ZONE FROM 6071 TO 6174		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .721	GRAVITY X LENGTH 4356
DATE OF FLOW TEST FROM 2-16-70 TO 2-24-70			DATE SHUT-IN PRESSURE MEASURED 10-8-69		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	373
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
373	373	1887	1897	1897	949	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
770	1.0000	1.0000	Q = 770 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.271	52411	14203	139129	153332	392

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 770 \left[\frac{2698008}{3445277} \right]^n = (.7831)^n = .8325 = 641 \text{ MCF/D}$$

REMARKS:

New Well, 1st del. 1-13-70

SUMMARY

Item h 373 Psia
 P_c 1897 Psia
 Q 770 MCF/D
 P_w 392 Psia
 P_d 949 Psia
 D 641 MCF/D

Company El Paso Natural Gas Co.
 By H. E. McDaniel
 Title _____
 Witnessed By _____
 Company _____

MAR 6 1970

CON. COM.
DIST. 3