

Initial
deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY SJ
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COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER MUDGE #13 DK		
UNIT LETTER G	SECTION 20	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.000	CASING I.D. - INCHES 3.428	SET AT DEPTH - FEET 7407	TUBING O.D. - INCHES 2.063	TUBING I.D. - INCHES 1.750	TOP - TUBING PERF. - FEET 7218
GAS PAY ZONE FROM 7146 TO 7246		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.655	GRAVITY X LENGTH 4728
DATE OF FLOW TEST FROM 06/08/68 TO 06/16/68			DATE SHUT-IN PRESSURE MEASURED 06/11/68		

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.) 476
(h) Corrected Meter Pressure (g+e) 476	(i) Avg. Wellhead Press. $P_i = (h+f)$ 476	(j) Shut-in Casing Pressure (DWt) 0	(k) Shut-in Tubing Pressure (DWt) 809	(l) P_m = higher value of (j) or (k) 809	(m) Del. Pressure $P_d =$ 50 % P_c 405	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 75	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 75 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.291	$(F_c Q_m)^2 (1000)$ 966	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 287	P_t^2 226576	$P_w^2 = P_t^2 + R^2$ USE P12	$P_w = \sqrt{P_w^2}$ 476
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{75}{\left[\frac{490456}{427905} \right]^n} = \frac{1.1461}{1.1077} = 33 \text{ MCF/D}$$

REMARKS: **Installed intermitter Turned back on production 5-20-68**

SUMMARY

Item h **476** Psia
 P_c **809** Psia
 Q **75** MCF/D
 P_w **476** Psia
 P_d **405** Psia
 D **33** MCF/D

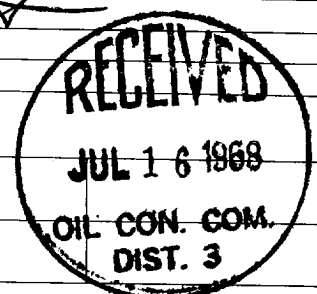
Company **EL PASO NATURAL GAS CO**

By

Title

Witnessed By

Company



16
1944

REMARKS: Installed intermitter. Turned back on production 5-20-64

SUMMARY

