

Initial Deliverability

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

Form C122-A
Revised 1-1-68

POOL NAME SO BLANCO	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
-------------------------------	------------------------------	------------------------	---------------------

87-074

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER RUSSELL #8		
UNIT LETTER E	SECTION 25	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2903	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP - TUBING PERF. - FEET 0
GAS PAY ZONE FROM 2804 TO 2824		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.625	GRAVITY X LENGTH 1753
DATE OF FLOW TEST FROM 10/10/69 TO 10/18/69			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.) 373
(h) Corrected Meter Pressure (g+e) 373	(i) Avg. Wellhead Press. $P_t = (h+f)$ 373	(j) Shut-in Casing Pressure (DWt) 1021	(k) Shut-in Tubing Pressure (DWt) 0	(l) $P_c =$ higher value of (j) or (k) 1021	(m) Del. Pressure $P_d = 80\% P_c$ 817	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 316	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 316 MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.120	$(F_c Q_m)^2 (1000)$ 3,077	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 369	P_t^2 139129	$P_w^2 = P_t^2 + R^2$ USE PT2	$P_w = \sqrt{P_w^2}$ 373
-----------------------------	--------------------------------------	---	--------------------------	---	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 316	$\left[\frac{374952}{903312} \right]^n =$ 0.4150	$=$ 0.4735	$=$ 150 MCF/D
--	---	----------------------	-------------------------

REMARKS:

New Well 1st Del. Sept. 19, 1969.

SUMMARY

Item h **373** Psia
 P_c **1021** Psia
 Q **316** MCF/D
 P_w **373** Psia
 P_d **817** Psia
 D **150** MCF/D

Company **EL PASO NATURAL GAS CO**
 By **R. E. Stauffer**
 Title
 Witnessed By
 Company



