

Deliver

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 San Juan
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COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER 75-952 Sunray "F" No. 3		
UNIT LETTER F	SECTION 1	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7005	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6688
GAS PAY ZONE FROM 2722 TO 6952		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .646	GRAVITY X LENGTH 4320
DATE OF FLOW TEST FROM 2-16-69 TO 2-24-69			DATE SHUT-IN PRESSURE MEASURED 12-06-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 429	(b) Flowing Tubing Pressure (DWt) 429	(c) Flowing Meter Pressure (DWt) 2052	(d) Flow Chart Static Reading 2056	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 429
(h) Corrected Meter Pressure (g+e) 429	(i) Avg. Wellhead Press. $P_f = (h+f)$ 429	(j) Shut-in Casing Pressure (DWt) 2052	(k) Shut-in Tubing Pressure (DWt) 2056	(l) $P_f =$ higher value of (i) or (k) 2056	(m) Del. Pressure $P_d = \frac{50}{1028} \times P_c$ 1028	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 705	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 705 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.270	$(F_c Q_m)^2 (1000)$ 43930	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 11861	P_t^2 184041	$P_w^2 = P_t^2 + R^2$ 195902	$P_w = \sqrt{P_w^2}$ 443
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	705	$\left[\frac{3170352}{4031234} \right]^n =$	$\left[0.7864 \right]^n =$	0.8350	$=$	589 MCF/D
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REMARKS:

New well first delivered 1-20-69

SUMMARY

Item h 429 Psia
 P_c 2056 Psia
 Q 705 MCF/D
 P_w 443 Psia
 P_d 1028 Psia
 D 589 MCF/D

Company EL PASO NATURAL GAS COMPANY
 By H. L. Kendrick H. L. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____



