

Initial:
Deliverability Test

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 KA
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75-965

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER S J 27-4 UNIT #41		
UNIT LETTER K	SECTION 7	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.350	CASING I.D. - INCHES 4.352	SET AT DEPTH - FEET 8204	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7943
GAS PAY ZONE FROM 7970 TO 8175		WELL PRODUCING THRU CASING TUBING A		GAS GRAVITY 0.524	GRAVITY X LENGTH 4969
DATE OF FLOW TEST FROM 04/04/69 TO 04/12/69			DATE SHUT-IN PRESSURE MEASURED 09/10/68		

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.) 470
(h) Corrected Meter Pressure (g+e) 470	(i) Avg. Wellhead Press. $P_t = (h+f)$ 470	(j) Shut-in Casing Pressure (DWt) 2552	(k) Shut-in Tubing Pressure (DWt) 2580	(l) P_c = higher value of (j) or (k) 2580	(m) Del. Pressure $P_d =$ 50 % P_c 1290	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1827	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1827 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-3})$.503	$(F_c Q_m)^2 (1000)$ 295,049	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 63480	P_t^2 2209	$P_w^2 = P_t^2 + R^2$ 310300	$P_w = \sqrt{P_w^2}$ 557
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	$\left[\frac{4992300}{6346100} \right]^n =$	$(0.7866)^n =$	0.3352	$= 1827 \text{ MCF/D}$
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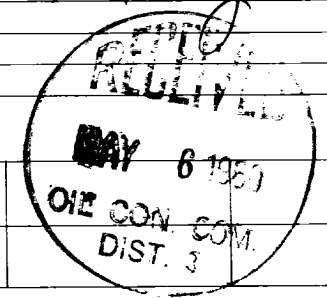
REMARKS:

New well first delivered 3-8-69

SUMMARY

Item h **470** Psia
 P_c **2580** Psia
 Q **1827** MCF/D
 P_w **557** Psia
 P_d **1290** Psia
 D **1827** MCF/D

Company **EL PASO NATURAL GAS CO**
 By **A. B. McAnally**
 Title _____
 Witnessed By _____
 Company _____



1964 O - 348-108

THE UNITED STATES OF AMERICA
DEPARTMENT OF THE ARMY
HEADQUARTERS, WASHINGTON, D.C.

1. PURPOSE AND SCOPE

2. REFERENCES

3. DEFINITIONS

4. PROCEDURES

5. APPENDICES

6. DISTRIBUTION

7. REVISIONS

8. APPROVALS

9. SIGNATURES

10. DISTRIBUTION STATEMENT

11. DISTRIBUTION STATEMENT

12. DISTRIBUTION STATEMENT

13. DISTRIBUTION STATEMENT

14. DISTRIBUTION STATEMENT

15. DISTRIBUTION STATEMENT