

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1985

Form C122-A
Revised 8-77

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY Rio Arriba
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95-546-01

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER S.J. 28-5 Unit #48A		
UNIT LETTER J	SECTION 22	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE EL Paso Natural Gas Co.	
CASING O.D. - INCHES 7.000	CASING I.D. - INCHES 6.456	SET AT DEPTH - FEET 4158'	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6404'
GAS PAY ZONE FROM 4825 TO 6390		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .700	GRAVITY X LENGTH 4483
DATE OF FLOW TEST FROM 12-19-85 TO 12-27-85			DATE SHUT-IN PRESSURE MEASURED 1-3-86		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI) 436	(b) Flowing Tubing Pressure (DWI) 382	(c) Flowing Meter Pressure (DWI) 343	(d) Flow Chart Static Reading 340	(e) Meter Error (Item c - Item d) 3	(f) Friction Loss (a-c) or (b-c) 39	(g) Average Meter Pressure (Integr.) 340
(h) Corrected Meter Pressure (g+e) 343	(i) Avg. Wellhead Press. $P_t = (h+f)$ 382	(j) Shut-in Casing Pressure (DWI) 722	(k) Shut-in Tubing Pressure (DWI) 607	(l) P_c = higher value of (i) or (k) 722	(m) Del. Pressure $P_d = \frac{.80}{578} \% P_c$ 578	(n) Separator or Dehydrator Pr. (DWI) for critical flow only _____

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 358	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0088	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0044	Corrected Volume Q = 360 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.278	$(F_c Q_m)^2 (1000)$ 11456	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 3185	P_t^2 145924	$P_w^2 = P_t^2 + R^2$ 149109	$P_w = \sqrt{P_w^2}$ 386
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_n^2} \right]^n =$ 360	$\left(\frac{187200}{372175} \right)^n =$.5030	$\left(\frac{.5030}{.5973} \right)^n =$.5973	215 MCF/D
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REMARKS: Initial & Annual 1st Delivered 11-11-85

SUMMARY

Item h 343 Psia
 P_c 722 Psia
 Q 360 MCF/D
 P_w 386 Psia
 P_d 578 Psia
 D 215 MCF/D

Company El Paso Natural Gas Co.
 By [Signature]
 Title _____
 Witnessed By _____
 Company _____

JAN 29 1986
 OIL CONSERVATION COMMISSION
 DIVISION

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1985

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DATE OF FLOW TEST FROM 12-19-85 TO 12-27-85			DATE SHUT-IN PRESSURE MEASURED 1-3-86		

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(a) Flowing Casing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWI)	(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.)
436	382	343	340	3	39	340
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_1 = (h+f)$	(j) Shut-in Casing Pressure (DWI)	(k) Shut-in Tubing Pressure (DWI)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{.80}{578} \% P_c$	(n) Separator or Dehydrator Pr. (DWI) for critical flow only
343	382	722	607	722		

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
358	1.0088	1.0044	Q = 360 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_1^2	$P_w^2 = P_1^2 + R^2$	$P_w = \sqrt{P_w^2}$
.278	11456	3185	145924	149109	386

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{360}{\left(\frac{187200}{372175} \right)^n} = \left(\frac{.5030}{.5973} \right)^n = 215 \text{ MCF/D}$$

REMARKS: Initial & Annual 1st Delivered 11-11-85

SUMMARY

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 P_c 722 Psia
 Q 360 MCF/D
 P_w 386 Psia
 P_d 578 Psia
 D 215 MCF/D

Company El Paso Natural Gas Co.

By *John J. Sellen*

Title

Witnessed By

Company

JAN 29 1986

OIL CON. DIV.
DIST. 3

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1985

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 P_w 386 Psia
 P_d 578 Psia
 D 215 MCF/D

Company El Paso Natural Gas Co.
 By *John J. Telleson*
 Title _____
 Witnessed By _____
 Company _____

JAN 12 9 1086
 OIL CON. DIV.
 DIST. 3