

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 77

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE $n = .75$	FORMATION Mesa Verde	COUNTY San Juan
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Meter No. 89685-01

COMPANY Union Texas Petroleum			WELL NAME AND NUMBER Johnston Federal #7-A		
UNIT LETTER F	SECTION 7	TOWNSHIP 31N	RANGE 9W	PURCHASING PIPELINE El Paso	
CASING I.D. - INCHES 7.000 4.500	CASING I.D. - INCHES 6.456 4.052	SET BACK DEPTH - FEET 3540 6020	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5956
GAS PAY ZONE FROM 4998 TO 5967		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 661	GRAVITY X LENGTH 3937
DATE OF FLOW TEST FROM 7-30-77 TO 8-7-77			DATE SHUT-IN PRESSURE MEASURED 6-10-77		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(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.) 227
(h) Corrected Meter Pressure (g+e) 227	(i) Avg. Wellhead Press. $P_t = (h+f)$ 227	(j) Shut-in Casing Pressure (DWt) 753	(k) Shut-in Tubing Pressure (DWt) 752	(l) P_c = higher value of (j) or (k) 753	(m) Del. Pressure $P_d = 80\% P_c$ 602	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1251	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ -----	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ -----	Corrected Volume $Q = 1251$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.249	$(F_c Q_m)^2 (1000)$ 138,342	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 34,447	P_t^2 51,529	$P_w^2 = P_t^2 + R^2$ 85,976	$P_w = \sqrt{P_w^2}$ 293
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DELIVERABILITY CALCULATION

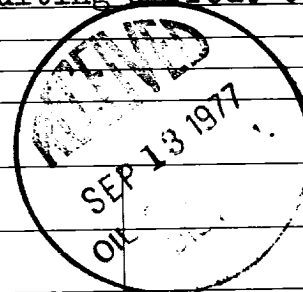
$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1251 \left[\frac{204,605}{481,033} \right]^n = (.4253)^n = .5267 = 659 \text{ MCF/D}$$

REMARKS: **Initial test only.**
4.500 10.5 # liner set from 3349 to 6020

SUMMARY

Item h	227	✓	Psia
P_c	753	✓	Psia
Q	1251	✓	MCF/D
P_w	293	✓	Psia
P_d	602	✓	Psia
D	659	✓	MCF/D

Company Union Texas Petroleum
By Elledge Consulting & Prod. Co.
Title Agent
Witnessed By _____
Company _____



Mr. [illegible]

Director, FBI

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Re: [illegible]

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