

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Undesignated	POOL SLOPE $n = 0.75$	FORMATION Chacra	COUNTY Rio Arriba
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COMPANY J. Gregory Merrion & Robert L. Bayless			WELL NAME AND NUMBER Fields Com #1		
UNIT LETTER F	SECTION 31	TOWNSHIP 26N	RANGE 6W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3325	TUBING O.D. - INCHES -	TUBING I.D. - INCHES -	TOP - TUBING PERF. - FEET -
GAS PAY ZONE FROM 3170 TO 3190		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.728	GRAVITY X LENGTH 2308
DATE OF FLOW TEST FROM 11-19-69 TO 11-27-69			DATE SHUT-IN PRESSURE MEASURED 8-22-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 205	(b) Flowing Tubing Pressure (DWt) -	(c) Flowing Meter Pressure (DWt) 199	(d) Flow Chart Static Reading 199	(e) Meter Error (Item c - Item d) -	(f) Friction Loss (a-c) or (b-c) 6	(g) Average Meter Pressure (Integr.) 199
(h) Corrected Meter Pressure (g+e) 199	(i) Avg. Wellhead Press. $P_i = (h+f)$ 205	(j) Shut-in Casing Pressure (DWt) 739	(k) Shut-in Tubing Pressure (DWt) -	(l) P_e = higher value of (j) or (k) 739	(m) Del. Pressure $P_d = \frac{80}{591} \% P_c$ 591	(n) Separator or Dehydrator Pr. (DWt) for critical flow only --

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1116	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ --	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ --	Corrected Volume $Q = 1116$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.154	$(F_c Q_m)^2 (1000)$ 38.377	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5.910	P_t^2 42.025	$P_w^2 = P_t^2 + R^2$ 47.935	$P_w = \sqrt{P_w^2}$ 219
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DELIVERABILITY CALCULATION

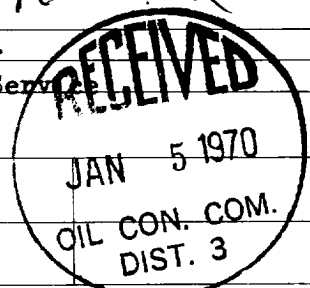
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1116	$\left[\frac{196,840}{498,160} \right]^n =$ 0.39513	$\left[\frac{196,840}{498,160} \right]^n =$ 0.4984	$= 556$ MCF/D
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REMARKS: **Tubingless completion.**

SUMMARY

Item h	199	Psia
P_c	739	Psia
Q	1116	MCF/D
P_w	219	Psia
P_d	591	Psia
D	556	MCF/D

Company **J. Gregory Merrion & Robert L. Bayless**
By **Gregory Merrion**
Title **Operator**
Witnessed By **Merle Ellsaesser**
Company **Fizz's Pumping Service**



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