

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67Form C122-A
Revised 1-1-66

POOL NAME <u>Undesignated</u>	POOL SLOPE n = <u>.75</u>	FORMATION <u>Barrota</u>	COUNTY <u>San Juan</u>
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COMPANY <u>Thomas A. Dugan</u>			WELL NAME AND NUMBER <u>Midwest #1</u>		
UNIT LETTER <u>P</u>	SECTION <u>31</u>	TOWNSHIP <u>28 North</u>	RANGE <u>14 West</u>	PURCHASING PIPELINE <u>Thomas A. Dugan</u>	
CASING O.D. - INCHES <u>5 1/2"</u>	CASING I.D. - INCHES	SET AT DEPTH - FEET <u>5770</u>	TUBING O.D. - INCHES <u>2 3/8"</u>	TUBING I.D. - INCHES <u>1.995</u>	TOP - TUBING PERF. - FEET <u>4812</u>
GAS PAY ZONE FROM <u>4843</u> TO <u>4854</u>		WELL PRODUCING THRU CASING TUBING <u>X</u>		GAS GRAVITY <u>.688</u>	GRAVITY X LENGTH <u>3311</u>
DATE OF FLOW TEST FROM <u>1-17-67</u> TO <u>1-25-67</u>			DATE SHUT-IN PRESSURE MEASURED <u>4-29-66</u>		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) <u>638</u>	(b) Flowing Tubing Pressure (DWt) <u>521</u>	(c) Flowing Meter Pressure (DWt) <u>514</u>	(d) Flow Chart Static Reading <u>7.05</u> <u>497</u>	(e) Meter Error (Item c - Item d) <u>+17</u>	(f) Friction Loss (a - c) or (b - c) <u>+7</u>	(g) Average Meter Pressure (Integr.) <u>7.15</u> <u>511</u>
(h) Corrected Meter Pressure (g + e) <u>528</u>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <u>535</u>	(j) Shut-in Casing Pressure (DWt) <u>1185</u>	(k) Shut-in Tubing Pressure (DWt) <u>1161</u>	(l) P_c = higher value of (j) or (k) <u>1185</u>	(m) Del. Pressure $P_d = \frac{5880}{\%P_c}$ <u>592948</u>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only <u>--</u>

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>415</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <u>1.0342</u>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <u>1.0170</u>	Corrected Volume Q = <u>422</u> MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ <u>.214</u>	$(F_c Q_m)^2 (1000)$ <u>15,224</u>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <u>3,258</u>	P_t^2 <u>286,225</u>	$P_w^2 = P_t^2 + R^2$ <u>289,483</u>	$P_w = \sqrt{P_w^2}$ <u>538</u>
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ <u>422</u>	$\left[\frac{313551}{1,053,761} \right]^{.75} =$ <u>.2812</u>	$\left[\frac{9453}{1,114,742} \right]^{.75} =$ <u>.3861</u>	$\frac{163}{485} \text{ MCF/D}$
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REMARKS:

SUMMARY

Item h	<u>528</u>	Psia
P_c	<u>1185</u>	Psia
Q	<u>422</u>	MCF/D
P_w	<u>538</u>	Psia
P_d	<u>592</u>	Psia
D	<u>163</u>	MCF/D

Company	<u>Thomas A. Dugan</u>
By	<u>Jim L. Jacobs (dw)</u>
Title	<u>Agent</u>
Witnessed By	
Company	



