

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 74

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = 0.75	FORMATION Dakota	COUNTY Rio Arriba
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COMPANY J. Gregory Merrion & Robert L. Bayless			WELL NAME AND NUMBER Canada Mesa #3		
UNIT LETTER A	SECTION 14	TOWNSHIP 24N	RANGE 6W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 6725	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.991	TOP - TUBING PERF. - FEET 6539
GAS PAY ZONE FROM 6500 TO 6570		WELL PRODUCING THRU CASING TUBING x		GAS GRAVITY 0.670	GRAVITY X LENGTH 4381
DATE OF FLOW TEST FROM 1-29-73 74 TO 2-6-73 74			DATE SHUT-IN PRESSURE MEASURED 1-7-73 74		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 602	(b) Flowing Tubing Pressure (DWt) 212	(c) Flowing Meter Pressure (DWt) 135	(d) Flow Chart Static Reading 132	(e) Meter Error (Item c - Item d) 3	(f) Friction Loss (a-c) or (b-c) 80	(g) Average Meter Pressure (Integr.) 132
(h) Corrected Meter Pressure (g+e) 135	(i) Avg. Wellhead Press. $P_i = (h+f)$ 215	(j) Shut-in Casing Pressure (DWt) 1862	(k) Shut-in Tubing Pressure (DWt) 1725	(l) P_c = higher value of (j) or (k) 1862	(m) Del. Pressure $P_d = 50\% P_c$ 931	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 264	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0227	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0113	Corrected Volume Q = 267 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.273	$(F_c Q_m)^2 (1000)$ 6.16	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1.682	P_t^2 46.225	$P_w^2 = P_t^2 + R^2$ 47.907	$P_w = \sqrt{P_w^2}$ 219
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DELIVERABILITY CALCULATION

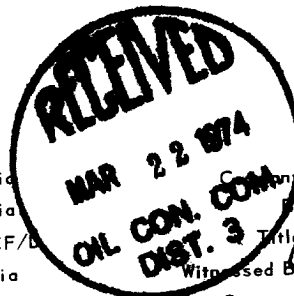
$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 267 \left[\frac{2,600,283}{3,419,083} \right]^n = (0.7605)^n = 0.8144 = 217 \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h 135
P_c 1862
Q 267
P_w 219
P_d 931
D 217

Psia
Psia
MCF/D
Psia
Psia
MCF/D



J. Gregory Merrion & Robert L. Bayless
By Gregory Merrion
Co-Owner
Witnessed By T. C. Durham
Company Fizz's Pumping Service
