

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-66

POOL NAME Basin Dakota	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY Tenneco Oil Company			WELL NAME AND NUMBER Graham Com # 1		
UNIT LETTER A	SECTION 9	TOWNSHIP 27	RANGE 8	PURCHASING PIPELINE El Paso	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 6820	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6752
GAS PAY ZONE FROM 6630 TO 6776		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 4578
DATE OF FLOW TEST FROM 8-27-69 TO 9-4-69			DATE SHUT-IN PRESSURE MEASURED 9-11-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 916	(b) Flowing Tubing Pressure (DWt) 476	(c) Flowing Meter Pressure (DWt) 465	(d) Flow Chart Static Reading 468	(e) Meter Error (Item c - Item d) -3	(f) Friction Loss (a - c) or (b - c) 11	(g) Average Meter Pressure (Integr.) 468
(h) Corrected Meter Pressure (g + e) 465	(i) Avg. Wellhead Press. $P_t = (h + f)$ 476	(j) Shut-in Casing Pressure (DWt) 1503	(k) Shut-in Tubing Pressure (DWt) 1451	(l) P_c = higher value of (j) or (k) 1503	(m) Del. Pressure $P_d = \frac{50}{752} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 292	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9936	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9968	Corrected Volume Q = 291 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.283	$(F_c Q_m)^2 (1000)$ 7,486	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 2,119	P_t^2 226,576	$P_w^2 = P_t^2 + R^2$ 228,695	$P_w = \sqrt{P_w^2}$ 478
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 291	$\left[\frac{1693,505}{2,030,314} \right]^n =$.8341	$=$.8728	$=$ 254 MCF/D
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REMARKS:

SUMMARY

Item h **465** Psia
 P_c **1503** Psia
 Q **291** MCF/D
 P_w **478** Psia
 P_d **752** Psia
 D **254** MCF/D

Company **TENNECO OIL COMPANY**
 By **J. D. Hicks**
 Title **Engineering & Production Service, Inc.**
 Witnessed By **J. D. Hicks**
 Company **Engineering & Production Service, Inc.**

