

NEW MEXICO OIL CONSERVATION COMMISSION 76
WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A
 Revised 1-1-66

POOL NAME Gavilan	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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COMPANY E.L. Fundingsland			WELL NAME AND NUMBER Sunico Federal #8		
UNIT LETTER k	SECTION 25	TOWNSHIP 25N	RANGE 2W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 3443	TUBING O.D. - INCHES 1.600	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3450
GAS PAY ZONE FROM 3465 TO 3522		WELL PRODUCING THRU CASING X		GAS GRAVITY .695	GRAVITY X LENGTH 2398
DATE OF FLOW TEST FROM 5-10-76 TO 5-18-76			DATE SHUT-IN PRESSURE MEASURED 5-25-76		

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.)
149	116	114	114	0	2	114
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
114	116	173	171	173	138	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
27	1.000	1.000	Q = 27 MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-x})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-x}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.160	.665	106	13456	13562	116

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 27 \left[\left(\frac{10865}{16367} \right)^n \left(\frac{.6651}{.7070} \right)^n \right] = 19 \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h **114** Psia
 P_c **173** Psia
 Q **27** MCF/D
 P_w **116** Psia
 P_d **138** Psia
 D **19** MCF/D

Company **Lynco Oil Co.**
 By **James Ray**
 Title **Field Mgr.**
 Witnessed By _____
 Company _____

NOV 4 1976
 OIL CON. COM.
 DIST. 3