

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Undesignated	POOL SLOPE n = .65	FORMATION Fruitland	COUNTY San Juan
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COMPANY Shelly Oil Co.			WELL NAME AND NUMBER Envajo "C" # 1		
UNIT LETTER K	SECTION 12	TOWNSHIP 24 N	RANGE 12 W	PURCHASING PIPELINE KPNS	
CASING O.D. - INCHES 5.000	CASING I.D. - INCHES 5.012	SET AT DEPTH - FEET 1140	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 1007
GAS PAY ZONE FROM 1001 TO 1104		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .977	GRAVITY X LENGTH 627
DATE OF FLOW TEST FROM 11-9-66 TO 11-17-66			DATE SHUT-IN PRESSURE MEASURED 11-25-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 122	(b) Flowing Tubing Pressure (DWt) 78	(c) Flowing Meter Pressure (DWt) 331	(d) Flow Chart Static Reading 31	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a - c) or (b - c) 41	(g) Average Meter Pressure (Integr.) 26
(h) Corrected Meter Pressure (g + e) 26	(i) Avg. Wellhead Press. $P_t = (h + f)$ 67	(j) Shut-in Casing Pressure (DWt) 331	(k) Shut-in Tubing Pressure (DWt) 331	(l) P_c = higher value of (j) or (k) 331	(m) Del. Pressure $P_d = \frac{80}{205} \% P_c$ 205	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 331	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.00	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.00	Corrected Volume Q = 331 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.000	$(F_c Q_m)^2 (1000)$ 22.5	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 1.010	P_t^2 4,400	$P_w^2 = P_t^2 + R^2$ 5500	$P_w = \sqrt{P_w^2}$ 74
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	331	$\left[\frac{331^2}{104053} \right]^n =$	.3700	$=$	.4374	$=$	341 MCF/D
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REMARKS:

SUMMARY

Item h **50** Psia
 P_c **331** Psia
 Q **331** MCF/D
 P_w **74** Psia
 P_d **205** Psia
 D **341** MCF/D

Company **Shelly Oil Co.**
 By **Rick Hergenroter**
 Title **Engineer Technician**
 Witnessed By **M.E. Maxwell Jr.**
 Company **Shelly Oil Co.**



