NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n= 0.75	Dakota	Rio Arriba

COMPANY			WELL NAME AND NUMBER		
Southern Union Production Company			Jicarilla "G" No. 1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
L	1	26 North	5 West	Southern Union Gas Company	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D. – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
7.000 5.500	6.456 4.778	5135 7934	1.900	1.660	7664
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 7660 TO 7838		CASING	TUBING XX	0.670	5135
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 1/2/71 TO 1/10/71			10/30/70		

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.)
—	452	440	442	– 2	+ 12	423
(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 = 50 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
421	439	—	2494	2494	1247	—

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
889	0.9955	0.9978	Q = 887 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s})(F_c Q_m)^2(1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.312	176,444	55,051	187,489	242,540	492

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 887 \left[\left(\frac{4,665,027}{3,977,496}\right)^n = (0.7004)^n = 0.8383\right] = 670 \text{ MCF/D}$$

REMARKS:

RECEIVED
FEB 18 1971
OIL CON. COM.
DIST. 3

SUMMARY

Item h	421	Psia
P_c	2494	Psia
Q	887	MCF/D
P_w	492	Psia
P_d	1247	Psia
D	670	MCF/D

Company Southern Union Production Company
By Kenneth E. Roddy Kenneth E. Roddy
Title Production Foreman
Witnessed By
Company