Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool South Blanco Formation Pictured Cliffs County RA

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed April 7, 1959

Operator Skelly Oil Company Lease Warren Well No. 1

Unit J Sec. 24 Twp. 27N Rge. 8W Pay Zone: From 2870 To 2956

Casing: OD 7" WT. 17# Set At 2856 Tubing: OD 1 WT. 1.70 T. Perf. 2944

Produced Through: Casing X Tubing Gas Gravity: Measured .691 Estimated

Date of Flow Test: From 2-27-59 To 3-7-59 * Date S.I.P. Measured 2-23-59

Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)	psig + 12 =	psia	(a)
Flowing tubing pressure (Dwt)	psig + 12 =	psia	(b)
Flowing meter pressure (Dwt)	psig + 12 =	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:			
Normal chart reading	psig + 12 =	psia	(d)
Square root chart reading ( ) ^{2} x spring constant	=	psia	(d)
Meter error (c) - (d) or (d) - (c) ±	=	psi	(e)
Friction loss, Flowing column to meter:			
(b) - (c) Flow through tubing: (a) - (c) Flow through casing	=	psi	(f)
Seven day average static meter pressure (from meter chart):			
Normal chart average reading	psig + 12 =	psia	(g)
Square root chart average reading (7.25) ^{2} x sp. const. 5.00	= 263	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 263	psia	(i)
Wellhead casing shut-in pressure (Dwt) 650	psig + 12 = 662	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 662	psia	(l)
Flowing Temp. (Meter Run) 59 °F + 460	= 519	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 331	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = _____ MCF/da

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$$

D = Q 1,125 $\left[\frac{P_c^2 - P_d^2 = 328,683}{P_c^2 - P_w^2 = 369,075} \right]^n$ .8906$^{.85}$ = .9062 = 1019 MCF/da

SUMMARY

P_c =	662	psia	
Q =	1125	Mcf/day	
P_w =	263	psia	
P_d =	331	psia	
D =	1019	Mcf/day	

Company Skelly Oil Company

By P. E. Cosper (Signed) P. E. Cosper, Jr.

Title District Superintendent

Witnessed by

Company

RECEIVED
APR 10 1959
OIL CON. COM.
DIST. 3

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}$ $(1-e^{-s})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			Negligible			