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 Gallegos Formation Gallup County S.J.

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed August 24, 1960

Operator Skelly Oil Co. Lease P. L. Davis Well No. 1

Unit A Sec. 26 Twp. 26N Rge. 11W Pay Zone: From 5332 To 5438

Casing: OD 5½" WT. 14 & 15½ Set At 6386 Tubing: OD 2 3/8" WT. 4.7 T. Perf. 5979

Produced Through: Casing X Tubing Gas Gravity: Measured .725 Estimated

Date of Flow Test: From 7-22-60 To 7-30-60 * Date S.I.P. Measured 12-27-57

Meter Run Size 4" Orifice Size 0.750 Type Chart SR 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 (7.00) ^{2} x sp. const. 10.00	= 490	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 490	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1200	psig + 12 = 1212	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1212	psia	(l)
Flowing Temp. (Meter Run) 86 °F + 460	= 546	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 606	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 149 \left[\frac{1,101,708}{1,228,844} \right]^{.75} = 149 \times .8965^{.75} = 149 \times .9213 = 137 \text{ MCF/da.}$$

SUMMARY

P_c =	1212 psia	Company	Skelly Oil Company
Q =	149 Mcf/day	By	P. E. Cosper
P_w =	490 psia	Title	District Superintendent
P_d =	606 psia	Witnessed by	
D =	137 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

RECEIVED
AUG 25 1960
OIL CON. COM.
DIST. 3