Initial Deliverability Test

Form C-122-A
Revised April 20, 1955

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 (P.C.)** Formation **Pictured Cliffs** County **R A**

Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed **9-8-58**

Operator **Skelly Oil Company** Lease **C. W. Roberts** Well No. **1**

Unit **D** Sec. **18** Twp. **25N** Rge. **3W** Pay Zone: From **3620** To **3650**

Casing: OD **5½"** WT. **14#** Set At **3717** Tubing: OD **2"** WT. **4.70** T. Perf. **3608**

Produced Through: Casing ____ Tubing **X** Gas Gravity: Measured **.648** Estimated ____

Date of Flow Test: From **5-15-58** To **5-22-58** * Date S.I.P. Measured **8-12-57**

Meter Run Size **4"** Orifice Size **1.000** 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 (**4.85**)² x sp. const. **10.00**	=	**235**	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	____	psia	(h)
P_t = (h) + (f)	=	**235**	psia	(i)
Wellhead casing shut-in pressure (Dwt)	____ psig + 12 =	____	psia	(j)
Wellhead tubing shut-in pressure (Dwt) **1010**	psig + 12 =	**1022**	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	**1022**	psia	(l)
Flowing Temp. (Meter Run) **64** °F + 460	=	**524**	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	**511**	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

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 584 \left[\frac{783{,}363}{984{,}556}\right]^{.7957^{.85}} = 481 \text{ MCF/da.}$$

SUMMARY

P_c =	1022 psia	Company	Skelly Oil Company
Q =	584 Mcf/day	By	Lee King
P_w =	245 psia	Title	Production Engineer
P_d =	511 psia	Witnessed by	
D =	481 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2338	.156	30.15	4.703	55,225	59,928	245

RECEIVED
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