



# SKELLY OIL COMPANY

Drawer 510  
Farmington, New Mexico

July 18, 1962

File: L. L. McConnell Well No. 4  
Gas Well Tests

State of New Mexico  
Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, New Mexico

Gentlemen:

Attached in triplicate is Initial Deliverability Test, Form C-122-A, on Skelly Oil Company's L. L. McConnell Well No. 4, located in Rio Arriba County, New Mexico.

The subject well has produced in excess of 2,500 MCF per month for the past three (3) months and will naturally be removed from the exempt marginal status.

Our 1961 Deliverability Test indicated a deliverability of 57 MCF/day. Since that test we have initiated a sustained program for blowing this well which has resulted in an increase in deliverability of 113 MCF/day as indicated on the latest test.

Due to the increase in production we are forwarding the attached Initial Deliverability Test which we trust will suffice until the Annual Deliverability Test is taken in September, 1962.

Very truly yours,

SKELLY OIL COMPANY

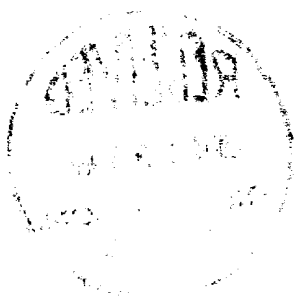
(ORIGINAL  
SIGNED) H. E. Aab

H. E. Aab  
District Superintendent

JWT/jm  
Attachments: (3)  
cc: Skelly Oil Company - Tulsa  
Skelly Oil Company - Farmington



(1964) U. S. A. P.



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 Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed July 10, 1962  
Operator Skelly Oil Company Lease L. L. McConnell Well No. 4  
Unit D Sec. 31 Twp. 25N Rge. 3W Pay Zone: From 3,718' To 3,789'  
Casing: OD 5-1/2" WT. 14# Set At 3,825' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3,729'  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .690 Estimated \_\_\_\_\_  
Date of Flow Test: From 5-30-62 To 6-7-62 \* Date S.I.P. Measured 9-13-62  
Meter Run Size 4.026" I. D. Orifice Size 0.750 Type Chart S. R. 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 ( \_\_\_\_\_ ) <sup>2</sup> 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 ( 5.15 ) <sup>2</sup> x sp. const. 10.00 \_\_\_\_\_ = 265 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 265 psia (i)  
Wellhead casing shut-in pressure (Dwt) 679 psig + 12 = 691 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 691 psia (l)  
Flowing Temp. (Meter Run) 57 °F + 460 \_\_\_\_\_ = 517 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 346 psia (n)

$$Q = \text{(Integrated)} \times \left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{126} \left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \text{ } \underline{.85} \text{ } \underline{.8785} = \underline{.8958} = \underline{113} \text{ MCF/da.}$$

SUMMARY

P<sub>c</sub> = 691 psia Company SKELLY OIL COMPANY  
Q = 126 Mcf/day By Orig. signed/ William Singley, Jr.  
P<sub>w</sub> = 265 psia Title Sr. Production Engineer  
P<sub>d</sub> = 346 psia Witnessed by \_\_\_\_\_  
D = 113 Mcf/day Company \_\_\_\_\_

- \* This is date of completion test.
- \* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			Negligible			

