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 **BLANCO** Formation **MESAVERDE** County **RIO ARRIBA**

Purchasing Pipeline **EL PASO NATURAL GAS CO.** Date Test Filed **JULY 25, 1960**

Operator **OCCIDENTAL PETROLEUM CORP.** Lease **"E"** Well No. **2-27**

Unit **K** Sec. **27** Twp. **26N** Rge. **3W** Pay Zone: From **6140** To **6256**

Casing: OD **5-1/2** WT. **15.5** Set At **6335** Tubing: OD **2-3/8** WT. **4.7** T. Perf. **6110**

Produced Through: Casing ____ Tubing **X** Gas Gravity: Measured **.673** Estimated ____

Date of Flow Test: From **6-29-60** To **7-7-60** * Date S.I.P. Measured **7-14-60**

Meter Run Size **4** Orifice Size **0.250** Type Chart **L-10** Type Taps **F1**

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt)	516	psig + 12 =	528	psia	(b)
Flowing meter pressure (Dwt)	515	psig + 12 =	527	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken):					
Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading (7.25)^2 x spring constant	10.00	=	526	psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=	1	psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	1	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.	10.00	=	526	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	527	psia	(h)
P_t = (h) + (f)		=	528	psia	(i)
Wellhead casing shut-in pressure (Dwt)		psig + 12 =		psia	(j)
Wellhead tubing shut-in pressure (Dwt)	1164	psig + 12 =	1176	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	1176	psia	(l)
Flowing Temp. (Meter Run)	79 °F + 460	=	539	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	588	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{10} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.956}{22.935} = 1.001 \right)^{*} = 10 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,037,232}{1,104,190} \right]^{n} \frac{0.9542}{(0.93936)^{n}} = 10 \text{ MCF/da}$$

RECEIVED
JUL 28 1960
OIL CON. COM.
DIST. 3

SUMMARY

P_c =	1176	psia	
Q =	10	Mcf/day	
P_w =	528	psia	
P_d =	588	psia	
D =	10	Mcf/day	

Company **OCCIDENTAL PETROLEUM CORP.**
By ____
Title **RAY PHILLIPS, REPRESENTATIVE**
Witnessed by ____
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
4112	0.258	0.009	2	278,784	278,786	528

Fc = 9.402

Classified Exempt Marginal 5-1-60.