

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool Basin Dakota		Formation Dakota		County San Rio Arriba	
Initial X	Annual	Special	Date of Test 1-15-66		
Company Tenneco Oil Co.		Lease Jicarilla A		Well No. 4-6	
Unit M	Sec. 20	Twp. 26	Range 5	Purchaser	
Casing 4 1/2	Wt.	I.D.	Set at 7650	Perf. 7293	To 7520
Tubing 2 3/8	Wt.	I.D.	Set at 7521	Perf.	To
Gas Pay: From To L G GL Bar. Press. .650 12.0					
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion		Packer	Reservoir Temp. 180		

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐						Type of Taps			
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.
(Prover) (line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
					2050		1770		3 Hr.
	3/4				226	60	623		

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	12.3650		238	1.000	.9608	1.025	2093
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas-Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-S}) _____ P_c **2062** P_c² **4251844**

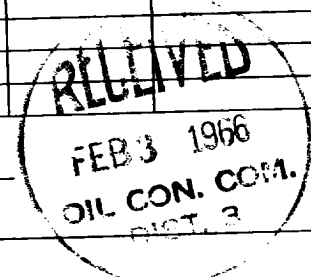
No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	635					403225	3848589		
2.									
3.									
4.									
5.									

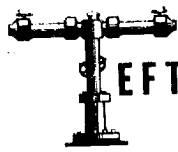
ABSOLUTE POTENTIAL: **3114** MCFPD: n **.75** **1.3776**

COMPANY **Tenneco Oil Company** WITNESSED _____

ADDRESS **P. O. Box 1714 - Durango, Colorado** COMPANY _____

AGENT AND TITLE **J. E. Massey**
District Production Engineer





EFTELLER, INC.

reservoir engineering data
MIDLAND, TEXAS

Page 1 of 1
File 2-1853-AOF

Company TENNECO OIL COMPANY
Field BASIN DAKOTA
Formation DAKOTA

Lease JICARILLA
County RIO ARriba
Test Date JANUARY 15, 1966

Well No. A-6
State NEW MEXICO

Status of Well Shut in 12 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	2045	
2000	2196	0.076
4000	2361	0.083
6800	2771	0.146
7100	2866	0.317
7400	2995	0.430
7407 Mid-Perf	2998	0.430

2900 Datum Pressure Psig

OIL
LEVEL
5935'
Water
Level
7062'



Elev. 6712 GL Datum Ft.
Total Depth 7629 Perf 7293-7520 Ft.
Tubing 2.375 in. to 7521 Ft.
Casing 4.5 in. to 7650 Ft.
Casing Press. 1770 Tubing Press. 2045
Oil Level 5935 Water Level 7062
Temperature 180 °F @ 7400 Ft.
Element No. 11143 Range 0-5100
Last Test Date
Pressure Last Test Date
B.H.P. Change Psi

PRESSURE POUNDS PER SQUARE INCH GAUGE

2000 0 2000 4000 6000 8000 10000 12000 14000
DEPTH: FEET