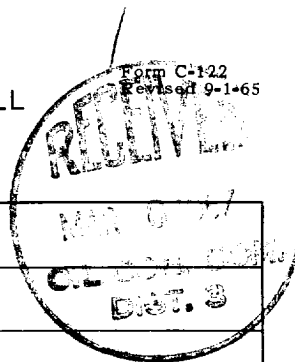


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65



Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-10-67	
Company Ferneco Oil Co.				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date		Total Depth 7130		Plug Back TD 7120		Elevation 5979	
Farm or Lease Name Newberry Com.				Well No. #1			
Csg. Size 4 1/2	Wt.	d	Set At 6932	Perforations: From 6910 To 7070		Unit Sec. Twp. Rge. C 5 31 12	
Tbg. Size 2 3/8	Wt.	d	Set At 7008	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County San Juan	
Producing Thru TBG.		Reservoir Temp. °F 190 @ 6990'		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
State New Mexico							
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2	x	3/4				1316		1330		3 hrs.
2.							187	60	672		
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		199	1.000	.9608	1.020	2411
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1342	P _c ² 1800964			(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.3510}{}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.2531}{}$
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	
1		684	467556	1333108	
2					
3					
4					
5					

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3021$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3021$$

Absolute Open Flow 3021 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
--	-------------------------------	---------------------

Remarks: *** 3 1/2" Liner 7125'**

Approved By Commission:	Conducted By:	Calculated By: Neil Tefteller	Checked By: J. E. Massey
-------------------------	---------------	---	------------------------------------

J. E. Massey

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

These AOF's are to be filed with
copies of Multipoint and One Point
Back Pressure Tests which we mailed
to you last week.

TENNECO OIL COMPANY

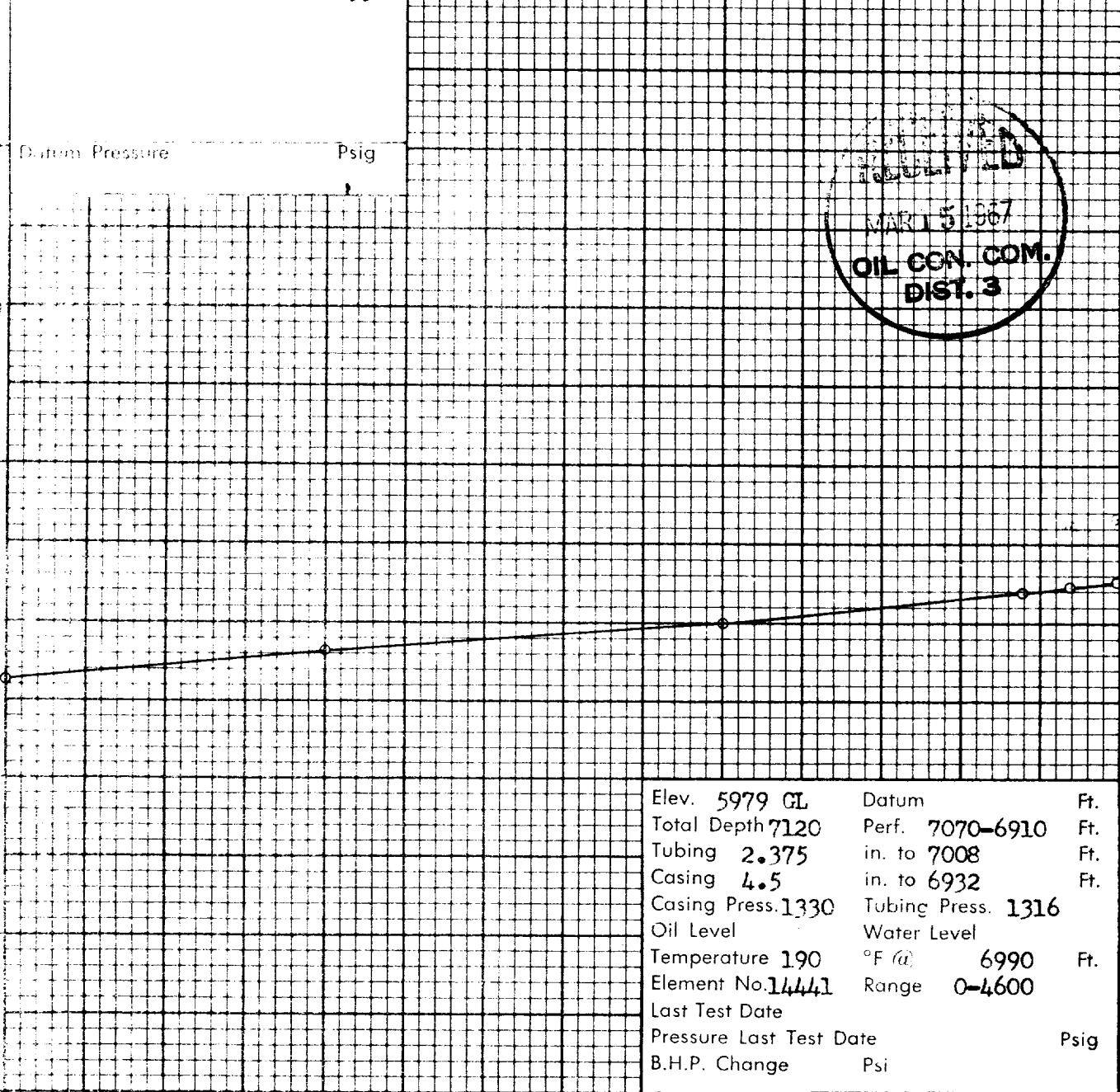
JA

9-5-3177-1210

Page 1 of 1
File 2-2158-AOF

Company TENNECO OIL COMPANY Lease NEWBERRY COM. Well No. 1
 Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
 Formation DAKOTA Test Date FEBRUARY 10, 1967

Status of Well Shut in 7 days		
DEPTH	PRESSURE	GRADIENT
Feet	Psig	Psi/Ft.
0	1316	
2000	1411	0.048
4000	1499	0.044
6390	1596	0.041
6690	1612	0.053
6990	1628	0.053



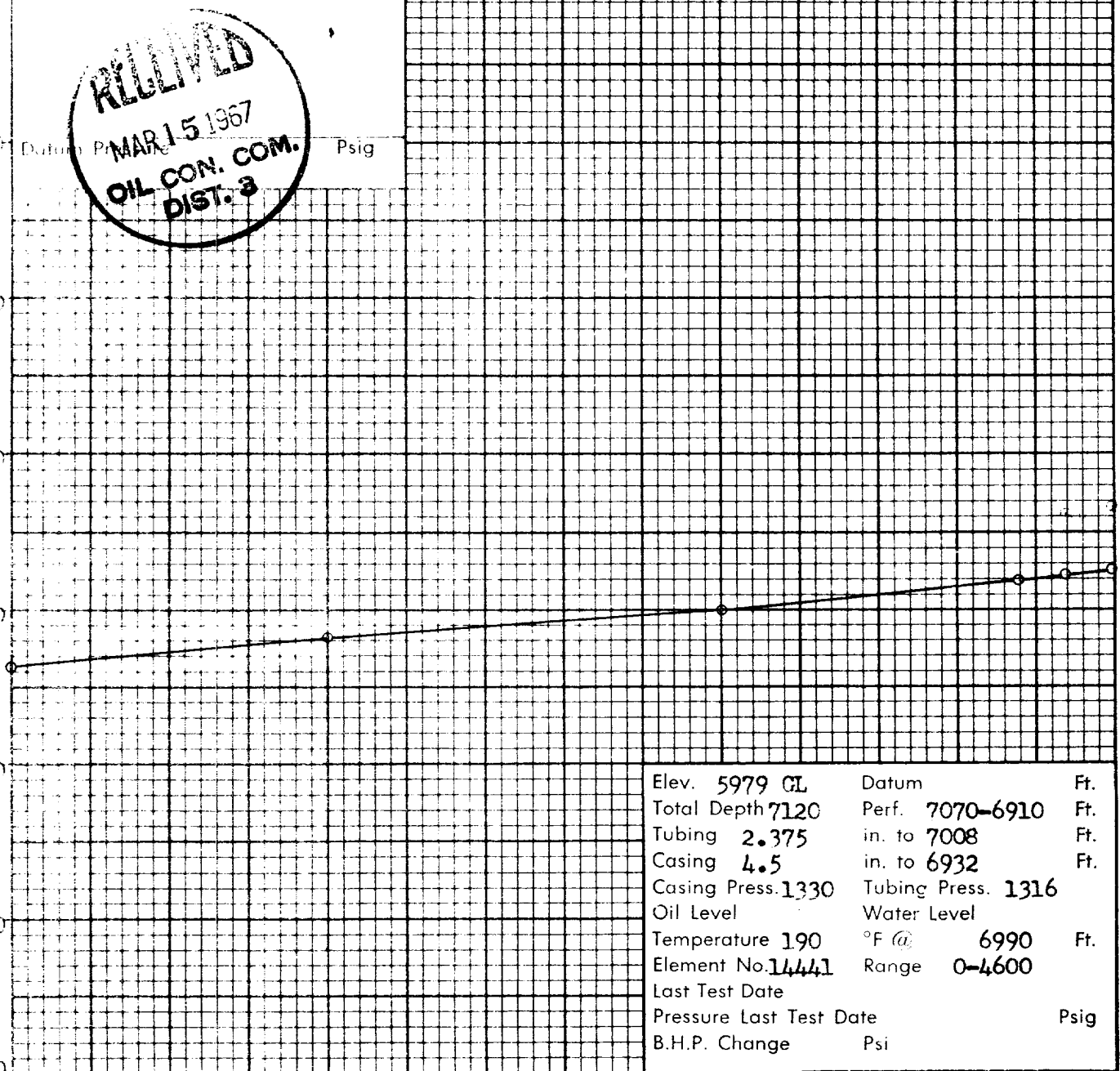
Elev. 5979 GL	Datum	Ft.
Total Depth 7120	Perf. 7070-6910	Ft.
Tubing 2.375	in. to 7008	Ft.
Casing 4.5	in. to 6932	Ft.
Casing Press. 1330	Tubing Press. 1316	
Oil Level	Water Level	
Temperature 190	°F @ 6990	Ft.
Element No. 14441	Range 0-4600	
Last Test Date		
Pressure Last Test Date		Psig
B.H.P. Change	Psi	

PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH - FEET

Company TEENECO OIL COMPANY Lease NEWBERRY COMM. Well No. 1
 Field BAST' DAKOTA County SAN JUAN State NEW MEXICO
 Formation DAKOTA Test Date FEBRUARY 10, 1967

Status of Well	Shut in 7 days	
DEPTH	PRESSURE	GRADIENT
Feet	Psig	Psi/Ft.
0	1316	
2000	1411	0.048
4000	1499	0.044
6390	1596	0.041
6690	1612	0.053
6990	1628	0.053

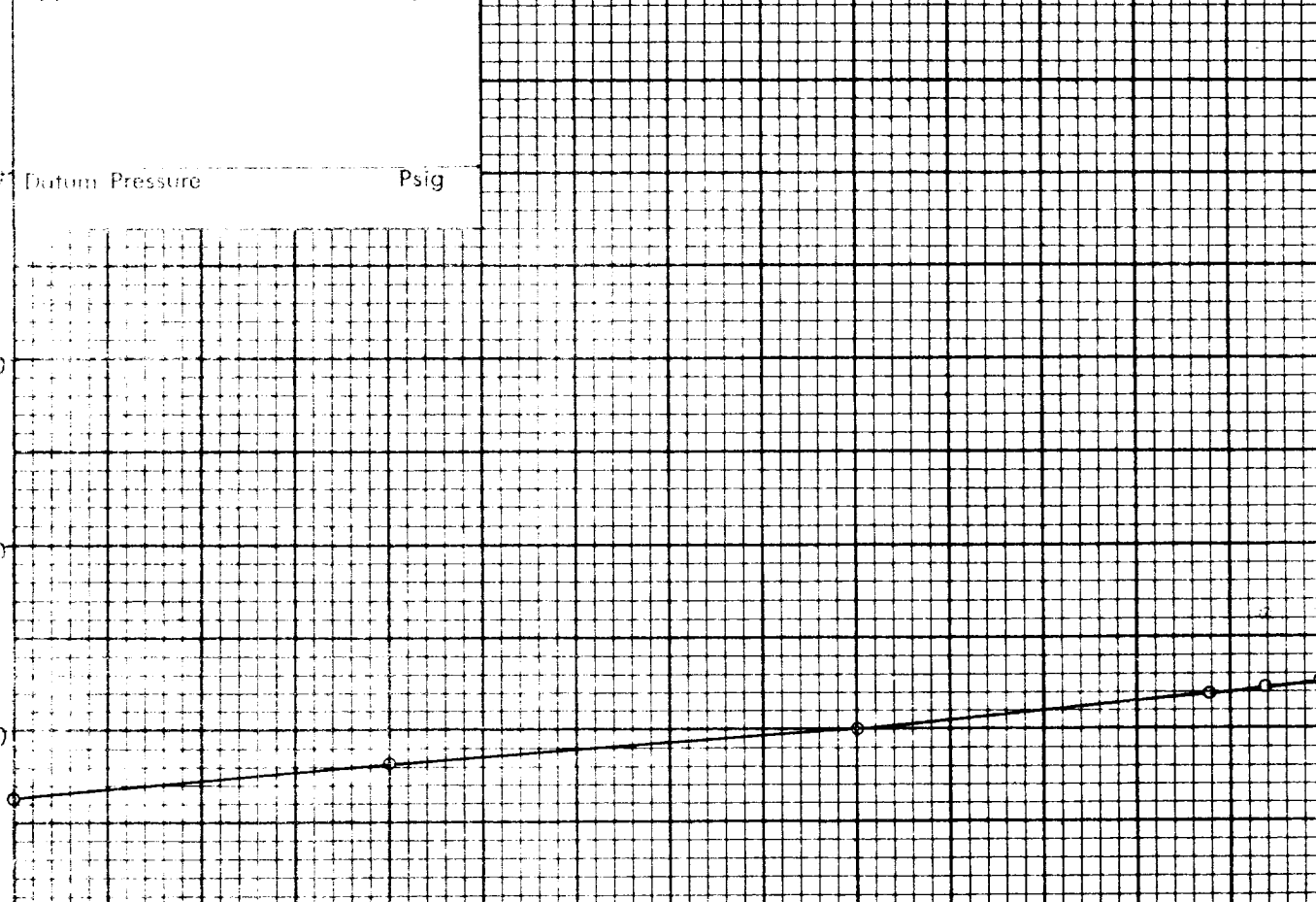


Elev. 5979 GL	Datum	Ft.
Total Depth 7120	Perf. 7070-6910	Ft.
Tubing 2.375	in. to 7008	Ft.
Casing 4.5	in. to 6932	Ft.
Casing Press. 1330	Tubing Press. 1316	
Oil Level	Water Level	
Temperature 190	°F @ 6990	Ft.
Element No. 1444.1	Range 0-4600	
Last Test Date		
Pressure Last Test Date		Psig
B.H.P. Change	Psi	

PRESSURE POUNDS PER SQUARE INCH GAUGE

Company TENNECO OIL COMPANY Lease NEWBERRY COMM. Well No. 1
 Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
 Formation DAKOTA Test Date FEBRUARY 10, 1967

Status of Well <u>Shut in 7 days</u>		
DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1316	
2000	1411	0.048
4000	1499	0.044
6390	1596	0.041
6690	1612	0.053
6990	1628	0.053



Datum Pressure _____ Psig	
Elev. 5979 GL	
Total Depth 7120	Datum _____ Ft.
Tubing 2.375	Perf. 7070-6910 Ft.
Casing 4.5	in. to 7008 Ft.
Casing Press. 1330	in. to 6932 Ft.
Oil Level _____	Tubing Press. 1316
Temperature 190 °F @ 6990 Ft.	Water Level _____
Element No. 14441	Range 0-4600
Last Test Date _____	
Pressure Last Test Date _____	Psig
B.H.P. Change _____	Psi

PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH: FEET