

TEFTELLER, INC.

reservoir engineering data

Associated with Dennis Owens Co.

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

P. O. Box 5247

Midland, Texas 79701

December 12, 1973

Tenneco Oil Company  
Suite 1200 Lincoln Tower Bldg.  
Denver, Colorado 80203

Attention: Mr. Harold Korell

Subject: Bottom Hole Pressure Measurement  
& Absolute Open Flow Measurements  
Gallegos No. 8  
Basin Dakota Field  
San Juan County, New Mexico  
Our File No. 2-5413-AOF

Gentlemen:

Attached hereto are the results of bottom hole pressure measurement and absolute open flow measurement which were made on the above captioned well November 30, 1973.

The data presented are in tabular and graphical form. The form C-122 is attached.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

*Neil Tefteller*

Neil Tefteller

NT/jw

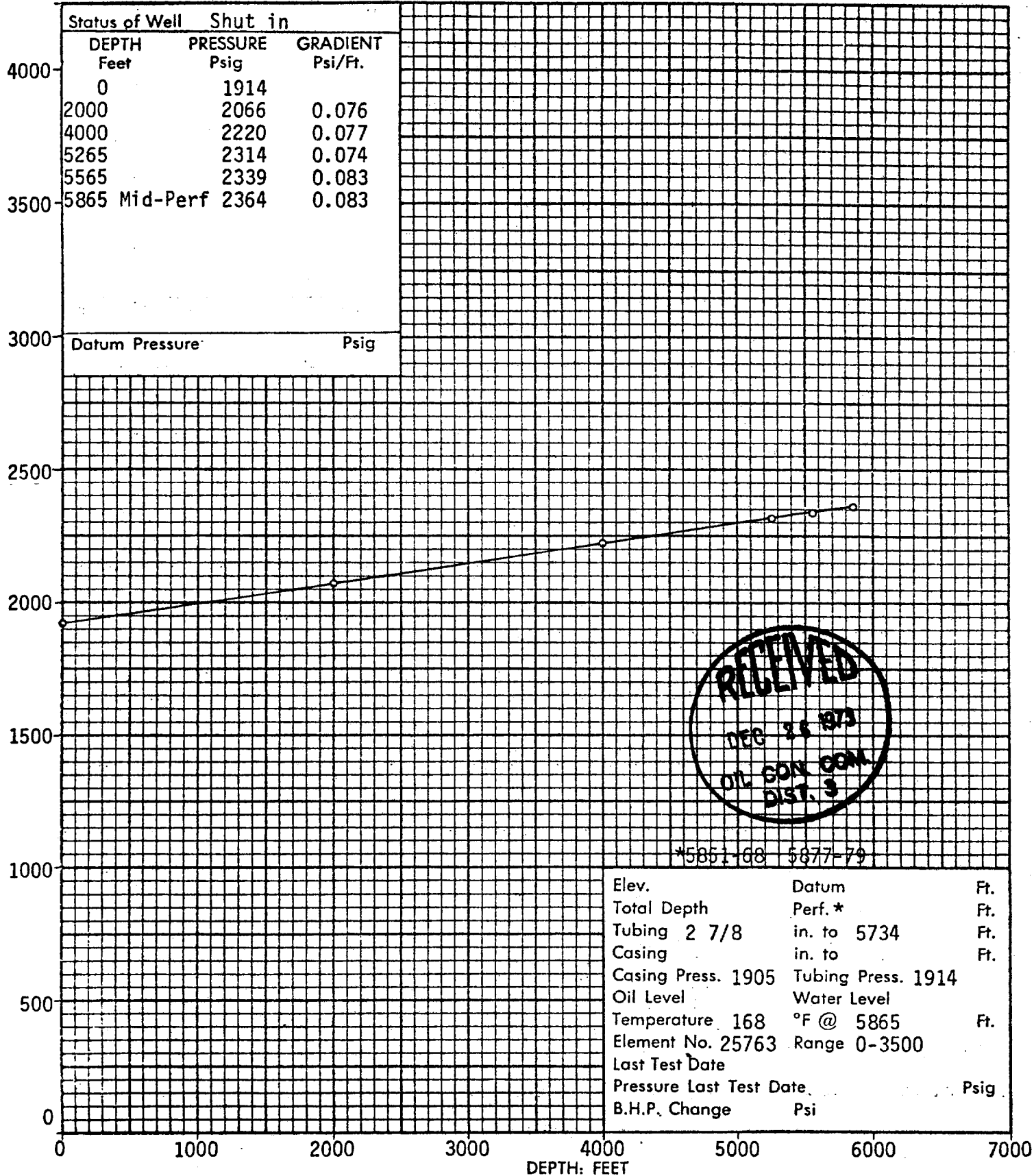


*Serving the Permian Basin & Rocky Mountain Area*

Company TENNECO OIL COMPANY Lease GALLEGOS Well No. 8  
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO  
Formation DAKOTA Test Date NOVEMBER 30, 1973

Status of Well Shut in		
DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1914	
2000	2066	0.076
4000	2220	0.077
5265	2314	0.074
5565	2339	0.083
5865 Mid-Perf	2364	0.083

Datum Pressure \_\_\_\_\_ Psig



PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH: FEET

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

Form C-122  
 Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 11-30-73	
Company Tenneco Oil Company				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date		Total Depth		Plug Back TD 5946	Elevation 6281KB 6268GL
Farm or Lease Name Gallegos					
Csq. Size 5 1/2	Wt. d	Set At 5965	Perforations: From 5851 To 5879		Well No. 8
Tbg. Size 2 7/8	Wt. d	Set At 5734	Perforations: From To		Unit 34 26 11
Type Well - Single - Braddenhead - G.G. or G.O. Multiple Single gas				Packer Set At	
Producing Thru Tbg		Reservoir Temp. °F 168 @ 5865	Mean Annual Temp. °F	Baro. Press. - P <sub>a</sub> 12.0	County San Juan
L	H	Gg	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
				Prover X	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 <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1.	2 x 3/4						1914		1905	
2.							90	60	264	
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1.	12.3650		102	1.0000	.9608		1212
2.							
3.							
4.							
5.							

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

P <sub>c</sub> 1926	P <sub>c</sub> <sup>2</sup> 3709476
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NO.	P <sub>r</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0210$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0156$
1.		276	76176	3633300		
2.						
3.						
4.						
5.						

Absolute Open Flow 1231 Mcfd @ 15.025				Angle of Slope @	Slope, n .75
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Remarks:			
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Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: Neil Tefteller	Checked By:
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