NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 10-8-73	
Company: Tenneco Oil Co.		Connection			
Pool: Basin Dakota		Formation: Dakota			Unit
Completion Date	Total Depth: 5884	Plug Back TD		Elevation: 6271 GL	Farm or Lease Name: Gallegos
Csg. Size: 5 1/2 / Wt. / d / Set At		Perforations: From 5838 To 5868			Well No.: 5
Tbg. Size: 2 7/8 / Wt. / d / Set At: 5710		Perforations: From To			Unit: / Sec.: 32 / Twp.: 26 / Rge.: 11
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At			County: San Juan
Producing Thru: Tbg	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 12.0		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
						X		

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI						1786		1824		7d.
1.	2	x 3/4				531	60	841		3 hrs.
2.										
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		543	1.000	.9608	1.054	6800
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1836 P_c^2 3370896

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		853	727609	2643287
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2753$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1999$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8159$

Absolute Open Flow 8159 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

RECEIVED
OCT 26 1973
OIL CON. COM.
DIST. 3

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	N. Tefteller	

EFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

File 1A-5283-AOF

Company TENNECO OIL CO. Lease GALLEGOS Well No. 5

Field BASIN DAKOTA County SAN JUAN State NEW MEXICO

Formation DAKOTA Test Date OCTOBER 5, 1973

Status of Well

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1800	
2000	1927	0.064
4000	2060	0.067
5300	2135	0.058
5500	2149	0.070
5700	2162	0.065
5853 Mid-Perf	2172	0.065

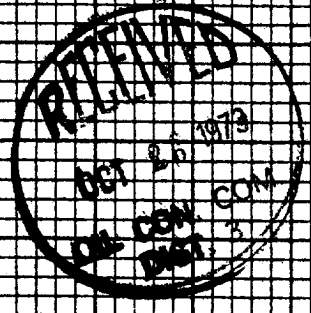
Datum Pressure Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE

4000 3500 3000 2500 2000 1500 1000 500 0

0 1000 2000 3000 4000 5000 6000 7000

DEPTH: FEET



Elev. 6271 GL	Datum	Ft.
Total Depth 5884	Perf. 5838-56 63-68	Ft.
Tubing 2 7/8	in. to 5710	Ft.
Casing 5 1/2	in. to	Ft.
Casing Press. 1852	Tubing Press. 1800	
Oil Level	Water Level	
Temperature	°F @	Ft.
Element No.	Range	
Last Test Date		
Pressure Last Test Date		Psig
B.H.P. Change	Psi	