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: 2-4-74	
Company: Tenneco Oil Company			Connection		
Pool: Basin Dakota			Formation: Dakota		Unit
Completion Date	Total Depth		Plug Back TD: 6326	Elevation	Farm or Lease Name: Hanson
Csg. Size: 5 1/2 / Wt. / d / Set At: 6370			Perforations: From 6190-94 To 6203-20		Well No.: 2
Tbg. Size: 2 7/8 / Wt. / d / Set At: 6079			Perforations: From To		Unit: Sec. 6 Twp. 25 Rge. 10
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single gas			Packer Set At		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 169 @ 6050		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

	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	14 days					1992		2065		7d
1.	2	x 3/4				484	60	802		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		496	1.0000	.9608	1.052	6195
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 2077 P_c^2 4313929

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		814	662596	3651333
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1815$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1332$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7020$

Absolute Open Flow 7020 Mcfd @ 15.025 Angle of Slope θ _____ Slope .75

Remarks: _____

RECEIVED
FEB 22 1974
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 2-5477-AOF

Company TENNECO OIL COMPANY Lease HANSON Well No. 2
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date FEBRUARY 4, 1974

Status of Well Shut in 14 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1991	
2000	2137	0.073
4000	2290	0.077
5450	2413	0.085
5750	2437	0.087
6050	2463	0.087
6205 Mid-Perf	2476	0.087

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

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Elev.		Datum	Ft.
Total Depth	6326	Perf. 6190-6220	Ft.
Tubing	2 7/8	in. to 6079	Ft.
Casing	5 1/2	in. to 6370	Ft.
Casing Press.	2065	Tubing Press. 1992	
Oil Level		Water Level	
Temperature	169	°F @ 6050	Ft.
Element No.	14441	Range	
Last Test Date			
Pressure Last Test Date			Psig
B.H.P. Change		Psi	