

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator TEXACO EXPLORATION						Lease or Unit Name SAUNDERS K					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-3-94		Well No. 2			
Completion Date 10-10-94		Total Depth 3740		Plug Back TD 3694		Elevation		Unit Ltr. Sec. - TWP - Rge. 18 19S - 37E			
Csg. Size 5 1/2"	Wt. 15.5	d 4.950	Set At 3740'	Perforations: From: 3456 To: 3616				County LEA			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 3405	Perforations: From: To:				Pool			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At no packer		Formation PENROSE			
Producing Thru TBG.		Reservoir Temp. °F 94°		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection			
L 3536	H 3536	Gg .813	% CO ₂ 13.31	% N ₂ 1.99	% H ₂ S	Prover		Meter Run 2.067	Taps 6lg.		

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	
SI										
1.	2.067 X 1.250		32	4	63°	32				24 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, F _{pv}	Rate of Flow Q, Mcfd
1.	8.120	13.45	45.2	.9971	1.109	1.006	122
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P. I Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.06	523	1.30	.989	DRY GAS	DRY	.813	DRY	721	403
2.										
3.										
4.										
5.										

P_c **85.2** P_c² **7.3**

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	2.0	47.8	2.3	5.0
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.460$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.460$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 178$

Absolute Open Flow 178 Mcfd @ 15.025	Angle of Slope Θ 45°	Slope, n 1.000
---	------------------------------------	-----------------------

Remarks: **NO FLUID MADE DURING TEST**

Approved By Division <i>[Signature]</i>	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: BM
--	--	-----------------------------	--------------------------

NOV 16 1994