

Pool 1980-1981 Formal up in County Los

Initial                      Annual                      Special                      Date of Test 6-27-56

Company Sinclair Oil Co. Lease 11-1-11 Well No. 5

Unit E Sec. 9 Twp. 19 Range 36 Purchase Oil and Nat. Gas Company

Casing 7" Wt. 20 # I.D.            Net wt. 3787 Pcs. 368 To 3620

Tubing 2 1/2 Wt. 4.70 I.D. \_\_\_\_\_ Set at 36 1/2 Perf. Open To \_\_\_\_\_

Gas Pay: From 3368 To 3620 @ 34.14 = 682 = 2376 Bar.Press. 13.2

Producing Thru: Casing \_\_\_\_\_ During 8 Type Well Single

Date of Completion: 6-12-56 Packer None Reservoir Temp. 119

## OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

[illegible]

FLOW RATE RATINGS							
No.	Coefficient (24-Hour)	$\sqrt{h_{wdf}}$	Flow Term Factor $F_t$	Gravity Factor $F_g$	Compress. Factor $F_{pv}$	Rate of Flow Q-MCFPD @ 15.025 psia	
1.	9.643	61.35	60.2	.9393	1.048	532	
2.		164.26	610.2	.9393	1.070	1583	
3.		178.64	607.2	.9393	1.070	1719	
4.		204.84	600.2	.9393	1.070	1962	

Gas Liquid Hydrocarbon Ratio None of/ool.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ den.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 977.2 P<sub>c</sub> 947.1

No.	$P_w$ $P_t$ (psia)	$P_t^2$	$F_{CQ}$	$\frac{F_{CQ}}{(1-\phi^2)}$	$P_C^2 - P_w^2$	Cal. $P_w$	$\frac{P_w}{P_C}$
1.	928.2			861.6	85.5		95.4
2.	815.2			664.6	282.5		83.8
3.	708.2			621.3	325.8		80.9
4.	754.2			562.8	378.3		77.5
5.							

Absolute Potential: A300 MCFPD; n .84  
 COMPANY Sinclair Oil & Gas Company  
 ADDRESS 52 East Broadway Hoboken, New Jersey  
 AGENT and TITLE R.L. Harrod Gas analyst *R L Harrod*  
 WITNESSED Earl Smith  
 COMPANY El Paso Natural Gas Co. INC.

Orig. & 200 New Mexico 11 Conservation Commission  
C: SJF, PCH, JE, HTP, , File

## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- $Q$  = Actual rate of flow at end of flow period at W. H. working pressure ( $P_w$ ).  
MCF/da. @ 15.025 psia and 60° F.
- $P_c$  = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.  
psia
- $P_w$  = Static wellhead working pressure as determined at the end of flow period.  
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if  
flowing through casing.) psia
- $P_f$  = Meter pressure, psia.
- $h_w$  = Differential meter pressure, inches water.
- $F_g$  = Gravity correction factor.
- $F_t$  = Flowing temperature correction factor.
- $F_{pv}$  = Supercompressability factor.
- $n$  = Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .