## NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT PACK PRESSURE TEST FOR GAS WELLS

Takks

County\_

Form C-122
Revised 12-1-55

No.   (Line)   (Orifice)   Size   psig   hw   OF.   psig   OF.   psig   OF.	
Unit A Sec. 33 Pag23-S Rge36-E Purchaser El Pago Natural Cas C Casing 5 1/2"wt. 14 I.D Set at 3530' Perf. 3476' To 3494 Tubing 2 1/2" wt. 6.4 I.T Set at 3481' Perf. 3477' To 3481  Gas Pay: From 3476' To 3494' L 3477' xg .673 TE 2340 Rar, Press.  Producing Thru: Casing - Tubing X Type Nell Single  Date of Completion: 5-30-53 Facker none    Casing - Tubing OBSERVED DATA	, 1958
Pushing 2 1/2" Wt. 6.4 I.D Set at 3451' Perf. 3477' To 3461  Sas Pay: From 3476' To 3494' L 3477' xG .673 -E 2340 Bar-Press.  Producing Thru: Casing - Tubing X Tone Well Single  Sate of Completion: 5-30-58 Facker none Reservoir Temp.  OBSERVED DATA  Pested Through (First 1978 Agent) Press. Diff. Temp. Press. Temp.  (Line) (Orifice) Size psig hw °F. psig °F. psig °F.  I 1.250 50 33.64 60 159	
### Prom 34.76' To 34.94' 1 34.77' xG .673 THE Well Single Park of Completion: 5-30-58 Facker none Reservoir Temp.  ### Press	1
Producing Thru: Casing - Tubing X Type Well Single Single Fidelines - G. G. or G.O. D. Single Fidelines - G.O.	
Producing Thru: Casing - Tubing X Type Well Single Single Fidelines - G. G. or G.O. D. Single Fidelines - G.O.	
Description:   S-30-58   Packer   None   Reservoir Temp.   OBSERVED DATA	
Continue	ual
Press   Press   Diff   Temp   Press   Temp   Press   Temp	
Flow Data  Flow Data  Flow Orifice)  Size  Flow Size  Flow Data  Fress. Diff. Temp. Press. Temp.  Fress. Temp.  Fr	
Company   Comp	
Column   C	
	Duration of Flow
1.250   50   33.64   60   199   -   -   -       1.250   59   39.69   60   128   -   -       1.250   64   12.25   60   99   -   -       1 1.250   63   53.29   60   69   -     -       1 1.250   63   53.29   60   69   -     -       1 1.250   63   53.29   60   69   -     -       24	Hr.
1.250   59   39.69   60   128     -	<u>72</u>
	21 <sub>1</sub>
FLOW CALCULATIONS    Coefficient	2lı 2lı
Coefficient  Factor	<u> </u>
Califor   Factor   Factor   Factor   Factor   Provided   Provide	
Pressure Calculations   Pres	of Flow
Pressure Calculations   Pres	FPD
PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  Solid Hydrocarbon Ratio of bbl. Specific Gravity Separator avity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux for the specific Gravity Flux for the specific Gra	025 psia
PRESSURE CALCULATIONS  s Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator avity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux Separator $(1-e^{-S})$	119
PRESSURE CALCULATIONS  s Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator avity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Flux Separator Flux Separator Flux Separator Flux Separa	187
PRESSURE CALCULATIONS  s Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator avity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Flux Separator Flux Separator Flux Separator Flux Separator Flux Separator Flux Separato	239
PRESSURE CALCULATIONS  s Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator avity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Specific Gravity Flowing Flux Separator Specific Gravity Flux Separator Flux Separator Flux Separator Flux Separator Flux Separator Flux Separator Flux Separato	580
5.866 (1-e <sup>-5</sup> ) 0.149 $P_c$ 450.2 $P_c^2$ 230.	
o. $P_{t}^{2}$   $F_{c}Q$   $(F_{c}Q)^{2}$   $(F_{c}Q)^{2}$   $P_{u}^{2}$   $P_{c}^{2}$   $P_{w}^{2}$   Cal.	
o. $P_{t}^{2}$   $F_{c}Q$   $(F_{c}Q)^{2}$   $(F_{c}Q)^{2}$   $P_{u}^{2}$   $P_{c}^{2}$   $P_{w}^{2}$   Cal.	
	Pw Pc
Pt (psia) (1-e-s) P	, Lille
	.303
. 112.2 12.6 3.04 9.24 1.38 14.0 216.6 118.6	21.7
82.2 6.8 3.40 11.56 1.72 3.5 222.1 92.2	192
osolute Potential: 610 MCFPD; n 1.000	/
DDRESS Box 845, Roswell, New Mexico	
GENT and TITLE Rex C. Cabaniss District Exploitation Ingineer	. —
HINESSED Joe Elumer (Test conducted by J. B. Murray, El Paso Natural Gas Company)	
OMPANY EL Paso Natural Gas Company	

## 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.
- Pc 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fny Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .