## NEW MEXICO OIL CONSERVATION COMMISSION

MAIN OFFICE CCC Form C-122

DIST. 3

			MULTI	-POINT BA	ACK PRES	SURE TEST	FOR GAS	MAIN OF I		Revis	ed 12-1-55
Pool	MULTI-POINT BACK PRESSURE TEST FOR Formation Dakota							3900Ar 13	Mo AF	12 riba	
Init	ial Y	l X Annual					SpecialDat				63
Initial X Annual Special Date of Test 11-6-63  Company J. Gregory errion & Associates Lease Federal Unit 34 Well No. 3											
Unit Sec. 34 Twp. 25-H Rge. 6-W Purchaser El Paso Matural Gas Co.											
Casing <u>u-1/2</u> Wt. 11.6 I.D. b.000 Set at 6712 Perf. 6513 To 6662											
Tubing 2" Wt. 4.7 I.D. 1.995 Set at 6504 Perf. 6561 To 6563											
Gas Pay: From 6518 To 6662 L 6590 xG 0.665 -GL 4382 Bar. Press. 12											
Producing Thru: Casing Tubing Tubing Type Well Single Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 10-25-63 Packer Reservoir Temp. 1650 7											
OBSERVED DATA											
	(Prover)		Data	Diff	Temp		Data Temp.	Casing D	Temp.		Duration
No.	(Line)	(Orifice Size	)			psig	l l	psig			of Flow Hr.
SI	Size	Size	psig	h <sub>w</sub>	· F •	5355 barg	F.	2317	F •		111.
1.		3/4	383		72	383	72	1242		3 hrs.	
2.											
3.		! !							<b> </b>	<del> </del>	
4. 5.								· · · · · · · · · · · · · · · · · · ·		<b>-</b>	
No.	Coefficient (24-Hour) $\sqrt{h_{wi}}$			Pressure		LOW CALCULATION Flow Temp. Factor Ft		Compress. Factor F <sub>DV</sub>		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	12,365		W- 1	395	0.9887		F <sub>g</sub>	1.039		4765	
2.											
3.											
4.					<del></del>						
5.					<del></del>						
				PR	ESSURE C	ALCUIATI					
	iquid Hydro				cf/bbl.			lfic Gravi lfic Gravi			
	ity of Liqui		lrbons (1-e <sup>-8</sup> )		deg.	,	P.	233#	p2 5	447	5
F <sub>C</sub> (1-e <sup>-8</sup> ) P <sub>C</sub> 233½ P <sub>C</sub> 5¼47.5											
No.	Pw Pt I		F <sub>c</sub> Q	$r_{\rm c}Q$ $(F_{\rm c}Q)^2$		$\left(\frac{c^{Q}}{c^{-s}}\right)^{2}$	P <sub>w</sub> 2	<b>"</b>		al. P <sub>W</sub> P <sub>W</sub> P <sub>C</sub>	
1.							1572.5	3875	T:		0.537
1. 2. 3. 4.		<del> </del>		<u> </u>				<del> </del>	_	<del></del>	
14.		<del> </del>									
5.								<u> </u>			
Absolute Potential: 6152 MCFPD; n 0.75 COMPANY J. Gregory Merrich & Associates											
ADDRESS P. C. Box 507, Farmington, N. R.  AGENT and TITLE IA Cregory Merrion, Operator											
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REMARKS											
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## 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 I 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .