MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Undesignated					Formation Mesaverde					County Rio Arriba		
											Date of	Test	9-11-58
Comp	pany_	Megno	lia Pe	troleu	m Cor	men	7	Lease <b>d</b>	ency Fe	ieral	Wel	Ll No	2 LT_MV
				:									ipe Line Corp.
											21		
Tubi	ing <u>2</u>	3/8	_Wt <b>4</b> .	.7#1	.D	1.9	9 <b>5"</b> Se	t at_ <b>59</b> 6	<b>8</b> Pe	rf		To -	
													ess. 12 naie
	Gas Pay: From 5572 To 6026 L 5988 xG 0.680 -GL 4072 Bar.Press. 12 pain  Producing Thru: Casing - Tubing X Type Well G-G Duel  Single-Bradenhead-G. G. or G.O. Dual												
Date	e of	Compl	etion:	8	25R	<del></del>	Packe	r <b>T</b> es	Sin	gle-Brade	enhead-G.	G. or (	G.O. Dual
2400	01	oompr.			2-70		_1 acke			neserv	ort temb.		
									ED DATA				
Test	Tested Through (Choke) (Choke) Type Taps												
	<u>/n</u>			Flow D			D: 00			Data	Casing I		
No.	(1	rover Line)	(20636)	Didek)				Temp.		Temp.			Duration of Flow
CT		Size	S	ize	ps:	ig	h <sub>w</sub>	°F•		<u> </u>	psig	<del> </del> -	Hr.
SI 1.		5#	0,7	750	419	, +	-	68	1497 419		-	-	3 hrs.
2 <b>.</b> 3.					-								
4.													
<u>5. l</u>	<del></del> -		_		<u> </u>				<del></del>	<u> </u>			
<del></del>	FLOW CALCULATIONS  Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow												
No.						Pre					Compre		
<u>-</u>	(24-Hour)		our)	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia		Ft		Fg	Fpv		@ 15.025 psia
1. 2. 3. 4.	12.	3650				431		0,9924		0,9393	1.0	5200	
3 e													
5.				<u> </u>									
							PRI	ESSURE CA	LCU ATI	ONS			
as I.	iani	d Hydr	ocarbo	n Ratio	^	-		cf/bbl.			fic Coori	+ - Ca-a	rator Gas 🛥
ravi	ty of	f Liqu	id Hydi	rocarb	ons			deg.		Speci	fic Gravi	ty Flow	ing Fluid 0.680
c	O 100												
	Ž,	<del></del>	<del></del>	<del></del>		<del></del>		<del></del>	<del></del>			<del></del>	<del></del>
No.	••	<i>,</i> , ,	Pt	F.	Q		$(F_cQ)^2$	(F <sub>c</sub>	Q) <sup>2</sup>	$P_w^2$	$P_c^2 - P_w^2$	Ca.	P <sub>W</sub>
1.		(psia) <b>31</b>	185.	8 1.8	3.9		2391. 2	(T-	-e_o)	797.9	1479.2	P	w Pc
1. 2. 3.						#						ļ	
4. 5.												<del> </del>	
			<u></u>										
Absolute Potential: 7188 MCFPD; n 0.75 COMPANY Magnolia Petroleum Company													
ADDRI	ESS_	Box	2406-	Hobbs.	Nev	Mes	igo						
MILIM	GENT and TITLE William a Mangen - Jr. Gas Engineer												
COMPA	COMPANY REMARKS REMARKS												
								TUDITA	ithb		/ NEC	hal / hai.	,
SEP <b>26</b> 1958													
	OIL CON COM											nig. P	

## 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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\rm t}$ .

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