-0388A NATURAL 600 CM
CARLSON FEDERAL #/
F - 13-25-37
LEA COUNTY, 11 - 1100
3-13-62

Q = 12 200

	'Aim	3V ■ ❤ <b></b> -	/ MEXICO	OIL CON	SERVATIO	N COMMISS	SION		
ILLE	GIB	LE "	"_D∩TXI™ '	OACIE POZ	CCIIIVA MT	con mon co	C LIMIT C		Form C-1 Revised 12-1-
ool Jus	tis	,11,	ormation	SAUA PRE	osuke Tea oriette	ST FOR GA	Countr	7	
									3-14-62
									1
asing <b>4-1/2</b>	9.5# " Wt.10.5#	I.D. 2	1001 Se	t at 48	3601 Pe	erf. 4700	-4910 6	Do 470	00 -47601
									111 \(\O\1\).
									ess. 19 2
te of Comp	letion	3-1-62	Do also	No.	Sir	ngle-Brad	enhead-G.	G. or	G.O. Dual
oc or oomp	1001011		Facke	T KN	416	neserv	oir Temp.		
				OBSERV	VED DATA				
sted Throu	gh (Prover	(Choke)	(Meter)	·			Type Tar	os <b>F</b>	lange
		w Data	- VII.		Tubing	Data	Casing I	Data	<u> </u>
	r) (Choke	Press	. Diff.	Temp.	Press.	Temp.			Duration
(Line Size		psig	h.	o <sub>F</sub> .	psig	o <sub>F</sub> .	psig	o <sub>F</sub>	of Flow Hr.
		1	W		1506		1536		72
311	1,500		12,00		930		1337	<u> </u>	3
3"			20.00		873	<b></b>	1220		3
34	1.500 1.500		42.00 62.00	102	715	<del> </del>	1119	<del></del>	3
3"	1.500	570	4.00		680 854	<del> </del>	1082	<del> </del>	21
						- <b>-</b>		<del></del>	
Coeff	icient	p	ressure		CULATION Temp.	Gravity	Compre		Rate of Flow
	leiene	' '	cosure		tor	Factor	Facto		Q-MCFPD
(24-1	Hour) \	h <sub>w</sub> p <sub>f</sub>	psia	F	't	${ t F}_{ t g}$	Fpv		@ 15.025 psia
14.36		3.25		.9627		.9608	1.02	B	931.9
14.36		3.00		.9636		.9608	1.04	5	1499
14.36 14.36		5.51 0.15		.9618 .9592		<u>.9608</u>	1.04		2169
14.36		3.30		.9592		.9608 .9608	1.04		2629
	irocarbon R	arbons	PR. , <b>700</b>	cf/bbldeg.		Spec:	ific Gravi ific Gravi <b>549.2</b>	ty Sepa ty Flow PC	erator Gasving Fluid
rity of Lic <b>Measu</b>	quid Hydroc	$\frac{(1-e^{-S})}{6,960}$							
Gas H <sub>2</sub>	quid Hydroc red O Ratio =	6,960	· · · · · · · · · · · · · · · · · · ·					<del>                                     </del>	
vity of Lic Measu Gas H <sub>2</sub>	quid Hydroc red 0 Ratio = Pt	(1-e <sup>-s</sup> ) <b>6,960</b> F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup>	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	Pw Pc
Pw Pt (psia	quid Hydroc red Ratio = Pt a) 889.6	6,960	(F <sub>c</sub> Q) <sup>2</sup>	(F (1		823.0	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	13.00.	P <sub>C</sub> P <sub>C</sub>
Pw Pt (psis 343.2	red  Ratio =  Pt  1)  889.6  785.3	6,960	(F <sub>c</sub> Q) <sup>2</sup>	(F (1		823.0 520.8	577.0 879.2	13.00. 1233.	P <sub>C</sub> V 0.6092 5  V 0.5724 7
Pt (psia	quid Hydroc red Ratio = Pt a) 889.6	6,960	(F <sub>c</sub> Q) <sup>2</sup>	(F (1	1 1	823.0 520.8 281.9	577.0 879.2	13.00. 12.33. 11.22.	Pc Pc D.6092 5
Pw Pt (psis 943.2 886.2 728.2	puid Hydroc red O Ratio = P <sup>2</sup> a) 889.6 785.3 530.3	6,960	(F <sub>c</sub> Q) <sup>2</sup>	(F (1		823.0 520.8	577.0 879.2	13.00. 12.33. 11.32. 10.53.1	Pc Pc D.6092 5
Pw Pt (psis 343.2 886.2 728.2 693.2 solute Pote	Pt  889.6 785.3 530.3 480.5 752.0 ential:	6,960 F <sub>c</sub> Q		MCFPD:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	823.0 520.8 281.9 199.5 493.8	577.0 879.2 1118.2 1200.5 906.2	13.70. 17.23. 11.22. 10.65.2 17.74	Pc Pc D.6092 3 D.5724 7 D.5724 7 D.4477 7 D.5601 7
Pw Pt (psis 943.2 728.2 693.2 867.2 solute Pote MPANY Odd	Pt  889.6 785.3 530.3 480.5 752.0 ential:	1.750 al Gasoli	ne Come	MCFPD:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	823.0 520.8 281.9 199.5 493.8	577.0 879.2 1118.2 1200.5 906.2	13.70. 17.23. 11.22. 10.65.2 17.74	Pc Pc D.6092 5 D.5724 7 D.5724 7 D.4477 7 D.5601 7
Pw Pt (psis 943.2 855.2 728.2 693.2 867.2 Solute Pote PANY Ode Parks Box Parks Box Parks P	Pt  889.6 785.3 530.3 480.5 752.0 ential: 8888 Nature 3908, Od	1.750 al Gasoli	ne Comp	MCFPD;	n 1	823.0 520.8 281.9 199.5 493.8	577.0 879.2 1118.2 1200.5 906.2	13.70. 17.23. 11.22. 10.65.2 17.74	Pc Pc D.6092 3 D.5724 7 D.5724 7 D.4477 7 D.5601 7
Pw Pt (psis 943.2 728.2 693.2 867.2 solute Pote PANY Ode	Pt P	1.750 al Gasoli assa, Tex	ne Comp	_MCFPD;	n 1 ment for	823.0 520.8 281.9 199.5 493.8 .000	577.0 879.2 1118.2 1200.5 906.2	12.00. 12.33. 11.32 10.53.2 17.74	Pc Pc D.6092 S D.5724 7 D.5724 7 D.4477 7 D.5601 7

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- PcI 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.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor:
- n I Slope of back pressure curve.

Note: If  $P_W$  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  $P_t$ .