MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

		SOUTH BLA									
Sec. 4 Twp. 268 Rge. 4W Purchaser											
Description Pressure Pressu											
Display Disp	nit	\$ 1/2 S	ec'I	"wp.	Rg	416	Purc	naser			
Second S											
Tubing X Type Well Single-Bradenhead-G, G. or G.O. Dual	ıbi	ng W	t	I.D. 1.9	Se	t at	Pe:	rf	73	To	5781
Packer Reservoir Temp. OBSERVED DATA OBSERVED DATA	as	Pay: From_	3696 To	6275	_L_ 577	'3 x	.6 50		752	Bar.Pr	ess. <u>12 PSIA</u>
Packer Reservoir Temp. OBSERVED DATA OBSERVED DATA	cod	lucing Thru:	Casing_		Tu	bing	X	Type We	ell_	Singl	C O Dunl
Type Taps Type	ate	of Complet:	ion:		Packe:	r	Sin	_Reserve	ennead-G. oir Temp	G. OF	G.O. Dual
Flow Data						OBSERV	ED DATA				
Flow Data	est	ed Through	(Antichering)	(Choke)	(TIEBBI=)				Type Tap	s •	
(Prover) (Choke) (Orifice) Press. Diff. Temp. Press. Temp. Press. Temp. Of F of F of F							Tubing	Data	Caging D	o to	•
Size Size psig hw OF. psig OF.	T		(Choke)	Press.	Diff.	=	Press.	Temp.	Press.	Temp.	
1172 60° 176 60° 1 hours FLOW CALCULATIONS Factor	' '		(Orifice) Size	psig	h _w	\circ_{F} .	psig	°F.	psig	□ _F .	or Fig
FLOW CALCULATIONS Coefficient	1						1172	60°F	1176	600	
Pressure Flow Temp. Gravity Compress. Rate of Flow Temp. Gravity Factor Facto	+		,750	175		62"7	175	6207	444	620	3 hours
Pressure Flow Temp. Gravity Compress. Rate of Flow Temp. Gravity Factor Facto	1										
Coefficient (24-Hour) $\sqrt{h_w p_f}$ psia Fressure Flow Temp. Factor Pactor Factor Facto	\pm										
Pressure Calculations Pres]	FLOW CAL	CULATION	S			
PRESSURE CALCULATIONS Stiquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas. Specific Gravity Flowing Fluid Pcliate Pc 1414 Pressure Calculations deg. Specific Gravity Flowing Fluid Pcliate Pc 1414 Pressure Calculations Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pcliate Pc 1414 Pressure Calculations Specific Gravity Flowing Fluid Pcliate Pc 1414 Pressure Calculations Specific Gravity Flowing Fluid Pcliate Pc 1414 Pressure Calculations Specific Gravity Flowing Fluid Pcliate Pcliate Pc 1414 Pressure Calculations Specific Gravity Flowing Fluid Pcliate Pcl			1	i	essure	772 M C			vity Compress. Rate		
PRESSURE CALCULATIONS S. Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas. Specific Gravity Flowing Fluid Pclies Pc 1414 Pw Pt (psia) Pt FcQ (FcQ)2 (FcQ)2 Pw2 Pc-Pw Cal. Pw Fc (1-e-s) Pw Pc Pc Pw Pc Pc Pw Pc Pc Pw Pc Pw Pc Pc Pc Pc Pw Pc Pc Pc Pc Pw Pc Pc Pc Pc Pc Pw Pc		(24-Hou	r) _\nambda \h	w ^p f	psia	F	t	F _g _	Fpv		@ 15.025 psi
PRESSURE CALCULATIONS Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_ vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid_ P_c 1122 P_c 1414 P_w P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 P_w P_c P_c P_w P_w P_c P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 (F_c Q)^2 P_w P_w P_c P_c P_w P_w P_c P_t (psia) P_t	\mp	12,365			175	.9981	·	. 960A	1.01		2,112.45
PRESSURE CALCULATIONS Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_ vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid_ P_c 1122 P_c 1414 P_w P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 P_w P_c P_c P_w P_w P_c P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 (F_c Q)^2 P_w P_w P_c P_c P_w P_w P_c P_t (psia) P_t	‡										
PRESSURE CALCULATIONS Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_ vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid_ P_c 1122 P_c 1414 P_w P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 P_w P_c P_c P_w P_w P_c P_t (psia) P_t F_c Q (F_c Q)^2 (F_c Q)^2 (F_c Q)^2 P_w P_w P_c P_c P_w P_w P_c P_t (psia) P_t	+										
Pt (psia) Pt Fc (FcQ) Pt (psia) Pt Fc (FcQ) Pt (psia) Pt Fc (FcQ) Pt (psia) Pt Fc (psia) Pt	vi	ty of Liquid	d Hydrocar	bons	PRI	cf/bbl.	,	Spec: Spec:	ific Gravi	ty Flo	wing Fluid
Desolute Potential: 2,374.4 MCFPD; n .75 DEPORT OF THE SECOND SE	·		Pt ²	F _c Q	$(F_cQ)^2$	(F	(cQ) ²	P _w 2	$P_c^2 - P_w^2$	C	al. Pw Pc
DORESS P. O. DEASER 1391, MIDIAND, TEXAS CENT and TITLE C. B. EVANS, BIVISION GAS ENGINEER LINESSED	#							208	1203		384
MCFPD; n .75 MPANY HOWELEL OIL CORPORATION DORESS P. O. DEASER 1391 MIDIAND, TEXAS ENT and TITLE C. B. EVANS, DIVISION GAS ENGINEER TNESSED	+									 	
MCFPD; n .75 MPANY HOWELEL OIL CORPORATION DORESS P. O. DEASER 1391 MIDIAND, TEXAS ENT and TITLE C. B. EVANS, DIVISION GAS ENGINEER TNESSED	+									 	
MPANY HONGLIEN OIL CORPORATION DRESS P. C. DEASER 1391, MIDIAND, TRYAS ENT and TITLE C. Eveny C. B. EVANS, DIVISION GAS ENGINEER TNESSED		lute Potent:	ial: 2,374	.4		MCFPD;	n	.75			
ENT and TITLE DIS Every C. B. EVANS, DIVISION CAS ENGINEER. TNESSED)MF	ANY HOME	an our co	RIGRATIO		EYAS					
	EN	T and TITLE					G. B.	EVANS, 1	DIVISION O	AS ENG	
MPANY											

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 (Pw). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.

OIL CONSE	4.13.	1 (2) (7)	OFF	105	
No. Copies	Regu		2	102	
<u> </u>		· · · · · · · · · · · · · · · · · · ·	"		Z 277
Andrew Commencer of the Commencer of			বৈত্য প্ৰস্থান্ত		****
Ciparito			+ . · · · · · · · · · · · · · · · · · ·		~
Berta Ca			1		
Frommer (18)			•	* ****	
State to the second					
9. C. X			j –		140
Fransporter			er ja Arriagi.		
Transporter File		eman range of	Frankrika Samu		
and the second s	Same of		i Camanana		-
The second secon	Marine L.				*** * **