W 'XICO OIL CONSERVATION COM BICTOR One-point Back Pressure Test for Gas Wells (Deliverability)

Form C-122-C 4-1-54

Pool Initial	#	ro	T III a () T O II	Special		100	unty	. 241	KA	···	
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ubing	Wt	W LFT. I.D	2	Set at 379	יני	Per	^f		To	******	
as Pay: F	rom	То_	150	Lynu	_ x G 💁		= GL	5(D)		ess. 13	
roducing	Thru: Ca	Twp. I.D. To	Tubing_	ж Тур	e Well_		ingle				
					Sing	le- Br	radenhead	i-G.G. or	c G.O. Du	al	
				FLOW D	ATT A			<u></u>			
Started		Taken		Duration		Type Line Orfice		Static	Static Differ- Flow		
Date	time	Date	time	Hours	Taps	Size		Press.		Temp.	
	30 AV		10							1	
1-17-58	AM AM	2-18-68	AM	Si bre	Flames	1200	1.25	1 pate	AN U.A	10597	
	Th/		704			-	***	T hard	T WEN	2007	
	PM	1	PM						<u> </u>		
]	FLOW CALCU	LATIONS						
Static	Differ-	Meter	24-Hour			Temp. Compress- Rate of		e of Flo	W		
Pressure	ential	Extension	1	Factor		. ,	ability		. 9 15.0		
$\mathtt{p}_{\mathbf{f}}$	h _w	$\sqrt{p_f} h_w$	icient	Fg	F _t	Ft Fpv		Q			
.2 pele	21*	26.80	9.781	0.9359	0.9592	1	005	236	236.49		
•											
			SHUT-IN						LOW DATA		
Shut-in		Press. Taken		Duration		Wellhead Pressure			W.H. Working Pressure		
Date	Time	Date	Time	Hours	(Pc) psia Tubing Casing			(Pw)and(Pt)psia			
-		+			Tubli	ng	Casing	Tubing	Ca	asing	
-11- 58	10 AM	7-14-58	MA OIL	72 tura.		ļ.					
					523.2			235.2 pa	da		
	PM PM		PM	1	pet						
P. 6	(p, 2 \$ (F	DIGREON ON		G(if necess	sary)				SUMMARY	7	
w (5h+3/19 ≠5-518 x 0-165)									523,2	psi	
A CANTON & CANTAL WATER DESIGNATION OF THE PROPERTY OF THE PRO									36.19		
										_MCF/Da	
DELIVERABILITY CALCULATIONS									235.0	psi	
235 p 523.2 p. 0.11.91								P _w =	118.56	r -	
P _w + P _c								_ P _d =_		psi	
P _W		Pw w s.a.	1-	$P_{\mathbf{W}} \setminus \int_{2+} \mathbf{F}$	w = w				127.95	MOR /D-	
P-0-550	Name .	1+ - Lik	91 1-	· -+ -	- = M	3.7935		D = _	· · · · · · · · · · · · · · · · · · ·	_MCF/Da	
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COMPANY The Atlantic Refining Company Log									2.373830		
		Denver Cit	y, Texas					_	2.107019		
	TITLE 🥒	Man	M. A. Car	r, Dist. S	Superin	tenden	t Lo	g D =			
TNESSED _									127.95		
MPANY							Antilo	g =		R	

This form is to be used for reporting deliverability tests in the designated Dry Gas Pools of Lea County as ordered by New Mexico Oil Conservation Commission Directive dated March 15, 1954, which directive was provided for by Orders R-365-A through R-376-A. For details regarding this test please refer to the above mentioned Directive.

NOMENCLATURE

Q = Actual 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_d = Deliverability pressure; 80 % of 72 hour individual wellhead shutin pressure (P_c). psia

P = 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

D = Deliverability at Deliverability pressure (P_d) MCF/da. @ 15.025 psia and 60° F.

p. = Static meter pressure, psia.

h = Differential meter pressure, inches water.

F = Gravity correction factor.

 $F_{t} =$ Flowing temperature correction factor.

F = Supercompressability factor.

n = Slope of back pressure curve.

DELIVERABILITY FORMULA

$$D = Q$$

$$\left(1 - \frac{P_{w}}{P_{c}} \left(1 + \frac{P_{w}}{P_{c}}\right)\right)^{n}$$

Note: If P, cannot be taken because of manner of completion or condition of well, then P, must be calculated by adding the pressure drop due to friction within the flow string to P.