NEW MEXICO OIL CONSERVATION COMMISSION CONTROL OF CONTR

					1	A Maria
MULTI-POINT	DIATE	nnmaarmet	2	200	~ . ~	Burkey at 15
MOPIT-BOTME	BACK	HWESPAKE	YEST.	FOR	GAS	
iddy UUN	3. 🗸	1111 3.45				

Revised 12-1-55

Poo	l Jalma	it	Fc	ormation	Yates	& 7 Rive	ers	_County		- 00		
Ini	tial	Annı	ual		Spec	ial	Χ	_Date of	Test_4	-2 9/5 - 3 1957		
Com	pany J. E	. Simon	ig 17. – Nilliähin nyo <u>miki y</u> yinn, sad		Lease	Smith_		Wel	1 No	3		
Unit I Sec. 4 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Co.												
Casing 5" 1 1 1 2												
Tubing 2 Wt. 4.7 I.D. Set at 3405 Perf. To												
Gas Pay: From 2920 To 3093 L 2920 xG 660 TGL 1927 Bar. Press. 13.2												
	Producing Thru: Casing Tubing x Type Well Single Single-Bradenhead-G. G. or G.O. Dual											
Date	e of Complet	ion: 5.4.2	7	Packe	r None	Sin	gle-Brade Reservo	nhead-G.	G. or G	.O. Dual		
Date of Completion: 5-4-37 Packer None Reservoir Temp. OBSERVED DATA												
Tect	ted Through	(Proven) (Chaka)	(Motor)		DD DAIR		Time Tan				
				(Metel)		<u> </u>	D. I.	Type Tap				
	(PXXXXr)	Flow D		Diff.	Temp.	Tubing Press.	Temp.	Casing D		Duration		
No.	(Line)	(Orifice)			•	71000	1			of Flow		
7	Size	Size	psig	h _w	°F•	psig	°F.	psig	[⊃] F•	Hr.		
SI						598	 		ļ	72		
1. 2. 3.	4	1.500	387		70	391	<u> </u>		 			
3.	<u>4</u>	1.500	305 238	14,44 21 16	69 72	308 244				24		
4. 5.	<u> </u>	1.500	222	23.04	71	226			 	24		
No.	Coeffici Glange (24-Hou	. /			Flow	tor	Gravity Factor Fg	Compre Facto Fpv	r	Rate of Flow Q-MCFPD @ 15.025 psia		
1.	13.99	56.0			.9905		.9535	1.038		768		
2.	13.99	67.7			.9915		.9535	1.031		896		
3.	13.99	72.8			.9887		.9535	1.023		983		
1. 2. 3. 4.	13.99	73.5	3		.9869)	.9535	1.022		990		
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 611.2 Pc 373.6												
No.	Pt (psia)		cQ	(F _c Q) ²	(1.	c ^{Q)²} -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca P	1. Pw Pc		
1. 2.	404.2		.631	58.22		22	170.6	203.0				
3.	321.2 257.2		767	79,26 95,39		83	113.0	260.6	 			
4.	239 2		837	96.77	1 .	99	78.0 69.2	295.6 304.4	 -			
Absolute Potential: 1-050 MCFPD; n 610 COMPANY J. F. Simon ADDRESS — Box 2076, Hobbs New Mexico												
AGEN	T and TITLE	tauf.	مه ک	Lito	X		Super	ntendent	of Proc	luction		
WITNESSED Clarence Armstrong H. H. Kerby COMPANY A.G.O. E.P.N.G.												

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 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- Pw 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
- P_{f} Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv 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} .

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