3-NHOCC

1-EFNG

2-Compass (Denver)

Form C-122 ed 12-1-55

	1-File		MULTI-	-POINT B	ACK PRES	SURE TES	T FOR GAS	WELLS		Revised 12-1-00	
Pool	Basin Dak	ota	F	ormation	Dako	ta		_County_ S	an Juan	3	
Init	cialX	Ann	_Annual		Special		Date of Test 8-9-62				
Comp	oany Compass	Exploration	n, Inc.	<u>, </u>	Lease	Butte		Wel	1 No	l - 19	
Unit	:s	ec. <u>19</u> T	wp. 301	I Rge	e. 13W	Purc	haser			·	
Casing4-1/2 Wt.10.5 I.D. Set at 6198 Perf. 5922 To 6040											
Tubing 1/2 Wt. 2.4 I.D. Set at 6044 Perf Open Ended To											
Gas Pay: From 5922 To 6040 L xG .680 _GL Bar.Press.											
Producing Thru: Casing Tubing X Type Well Single - Gas										2.5	
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 8/1/62 Packer Reservoir Temp.										.O. Dual	
					OBSERV	ED DATA					
Test	ed Through	(Stores)	(Choke)	(ures)				Type Tap	s		
	**************************************	Flow	Data			Tubing	Data	Casing D			
N				Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
	(Line) Size	Size	psig	h _w	o _{F•}	psig	o _F .	psig	[⊃] F•	of Flow Hr.	
SI						1891		1901			
1. 2. 3.											
<u>3.]</u>	2"	3/4"	191		68			921		3 Hours	
4. 5.			+						 		
				<u> </u>				<u>L</u>		<u> </u>	
	Coeffici	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow									
No.	/OL 11					tor	Factor	Factor		Q-MCFPD @ 15.025 psia	
-	(24-Hour) √ h		√ ^p f psia		Ft		Fg	F _{pv} @ 15.025			
2.											
1. 2. 3. 4. 5.	12.3650			203		•9924		1.022		2391	
5.											
				PRI	ESSURE C	ALCULATIO	ONS				
1 T			• _					<i>e:</i> - 0	C	makam Can	
Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separa Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing								ing Fluid			
			(1-e ^{-s})				Pc	1913	Pc 36	59.5	
No.	$P_{\mathbf{w}}$	P_{t}^{2}	F _C Q	$(F_cQ)^2$	٦) ا	ω) ²	P _w 2	$P_c^2 - P_w^2$	Ca	1. Pw	
- 1	Pt (psia)	*t	· c ·	(1 C&)	(i	$(c^{Q})^{2}$ $-e^{-s}$)	1 W~	l .c.m	1	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
1. 2. 3. 4.											
3.	933						870.5	2789		1.312	
<u>4.</u>									· · · · · · · · · · · · · · · · · · ·		
				-	MORPE	75	1 2058	<u> </u>			
	olute Potent PANY		2931			n <u>=.75</u>	1.2258				
COMPANY COMPASS EXPLORATION. INC. ADDRESS P. O. Box 1138, Farmington, New Mexico											
AGENT and TITLE E. C. Ellis. Production Supt. WITNESSED											
	PANY										
					REM	ARKS		Err	11/12		

SEP101962 OIL CUN. COM DIST. 3

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 T 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.
- P_c= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- F_g Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- Fpv 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_{+} .