1 - PNG (Rill Parrish) NEW MEXICO OIL CONSERVATION COMMISSION

1 - Compass (Denver)

1 - File

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Company Compass Exploration, Inc. Lease NW Lindrith Well No. 2-9

10.50 Casing 4_1/2" Wt. 11.60 I.D. Set at 6956 Perf. 6518 To 6666

Producing Thru: Casing Tubing Tubing Type Well Single - Gas

Single-Bradenhead-G. G. or G.O. Dual

Pool Basin Dakota Formation Dakota County Ric Arriva

Initial Annual Special Date of Test 6/8/63

Unit ___ Sec. __ Twp. __ 26x Rge. __ 7u Purchaser____

Gas Pay: From 6518 To 6666 L xG .650 -GL

Tubing 1-1/2# Wt. 2.75 I.D. Set at 6520 Perf. Open Ended To

Form C-122

Revised 12-1-55

Bar.Press._____

ate (of Complet	ion:_	5/25	/63	Packer	r		Reservo	ir Temp			
						OBSERV	ED DATA					
ste	d Through	Pro	(E) (Choke) (Medeck)				Туре Тар	s		
		I	low D	ata			Tubing	Data	Casing D	ata		
Τ_	(Pagesax)		ke)	Pres	s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
	(Line)		agg)	÷		•		0-		1 2-	of Flo	
	Size	S	ze	psi	g h _w	°F.	psig	°F.	psig	°F.	Hr.	
							2280		2282			
				<u> </u>						 	7 17	
+	2 n	3/	411	102				67	550	-	3 Hours	
+				+						<u> </u>		
<u>.</u>							<u> </u>		<u> </u>			
							CULATION		Compre	1	Rate of Flow	
	Coefficient			Pressure		Flow Temp. Factor		Gravity Factor	Compress.		Q-MCFPD	
•	(24-Hour) 7/		- / h	h _w p _f psia		Factor Ft		Fg	Fpv	-	@ 15.025 psi	
_	(24-1100		V ''W	Pf	hora	·	t		- pv			
╀												
	12.365				114	.9933		.9608	1.0	11	1360	
+-												
1				i_								
Li	quid Hydro	carbo	n Rati	.o		cf/bbl.	ALCUIATIO	Speci	fic Gravi	ty Sepa	rator Gas_	
Li vit	quid Hydro y of Liqui	d Hyd:	rocarb	ooons_ l-e-s		cf/bbl.		Speci Speci	fic Gravi	ty Flow	erator Gas ving Fluid 5.262.436	
Li	y of Liqui 	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.	-	Speci Speci ^P c	fic Gravi	ty Flow	ring Fluid	
Li vit	y of Liqui	d Hyd:	rocarb	ons		cf/bbl.	-	Speci Speci	fic Gravi	ty Flow	ring Fluid	
Li vit	y of Liqui 	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.		Speci Speci ^P c	fic Gravi	ty Flow	ring Fluid 5.262.436	
Li vit	y of Liqui	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.	-	Speci Speci ^P c	fic Gravi	ty Flow	ring Fluid	
Li vit	y of Liqui P _w P _t (psia)	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.	(cQ) ² -e-s)	Speci Speci ^P c	fic Gravi	ty Flow	ring Fluid	
Li	y of Liqui	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.	(cQ) ² -e-s)	Speci Speci P _c P _w 2	fic Gravi 2294 P _c -P _w	ty Flow	oing Fluid 5.262.436	
Li	y of Liqui P _w P _t (psia)	d Hyd:	rocarb	oons 1-e ^{-s}	2)	cf/bbl.	(cQ) ² -e-s)	Speci Speci P _c P _w 2	fic Gravi 2294 P _c -P _w	ty Flow	oing Fluid	
Li	y of Liqui P _w P _t (psia)	d Hyd:	cocarb 2 t F	oons_ l-e ^{-s}	2)	cf/bbl.deg.	(cQ) ² -e-s)	Speci Speci P _c P _w 2	P _c -P _w	ty Flow	oing Fluid	
Li vit	Pw Pt (psia) 562 ute Potent	d Hyd:	comp	1-e-s	(F _c Q) ²	cf/bbl.deg. (F (1) MCFPD:	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	ty Flow	ring Fluid	
Li vit	Pw Pt (psia) 562 ute Potent	P:	COMP.	l-e-s	(F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD:	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can Day	ring Fluid	
Li vit sol MPA DRE	Pw Pt (psia) 562 ute Potent NY SS and TITLE	P:	COMP.	l-e-s	(F _c Q) ² (F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD:	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can Day	ring Fluid 5.262.436	
Li vit	Pw Pt (psia) 562 ute Potent NY SS and TITLE	P:	COMP.	l-e-s	(F _c Q) ² (F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD:	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can Day	ring Fluid 5.262.436	
Li vit	Pw Pt (psia) 562 ute Potent NY SS and TITLE	P:	COMP.	l-e-s	(F _c Q) ² (F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD: INC.	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can Day	ring Fluid 5.262.436	
osol DOMPA DDRE GENT	Pw Pt (psia) 562 ute Potent NY SS and TITLE	P:	COMP.	l-e-s	(F _c Q) ² (F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD: INC.	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can Day	ring Fluid 5.262.436	
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Li vit sol MPA ENT	Pw Pt (psia) 562 ute Potent NY SS and TITLE	P:	COMP.	l-e-s	(F _c Q) ² (F _c Q) ²	cf/bbl.deg. (F) (I) MCFPD: INC.	(cQ) ² -e ^{-s})	Speci Speci Pc	P _c -P _w	Can I	ring Fluid 5.262.436	

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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c 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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.