Initial Pest (To se

NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

P∞l	Tapacite E	ta	Formation	Picture	(Cliffe	_County	o Arriba	
Purchasing Pi	ipeline Baili	e Berthwest I	ipeline Co	speration.	Date Test I	Filed	-16-67	 ,
Operator	rthwest Fred	metica Corp.	Lease	"C"		Well N	4-89	
Jnit	Sec 	T wpT	Rge 47 _	Pay Zone	: From 3390	T	3376	
		Set /					_T. Perf	369
		Tu					_Estimated_	
Date of Flow	Test: From	7-84-57 To	8-1-57	* Date S.I.P.	Measured	6-6-67		
		Ori					Type Tops	
			•	ED DATA				
lowing casing	pressure (Dwt)				psig + 12 =		nsio	: (
lowing meter p	ressure (Dwt)	·			psig + 12 = _		psia	۱ (
	* * *	iding when Dwt. me						
	t reading) ² x spring	constant				psia psia	•
eter error (c) -		· x spiring	±	•			-	· (
• •	lowing column to	meter:	_		_	,		`
(b) - (c) Flow	w through tubing:	(a) - (c) Flow through	gh casing		= _		psi	(
-		essure (from meter	-	697		49		
Normal chart	t average reading	ing () ²			psig + 12 =_	63		•
		ter press. $(p_f)(g) +$		· · · · · · · · · · · · · · · · · · ·	=-		psic	
$\mathbf{r}_{+} = (\mathbf{h}) + (\mathbf{f})$	van aay avgavaa	er braces (bl) (4)	\- 7		=_	62		-
	shut-in pressure	(Dwt)	· ·		psig + 12 =_		. •	. (
_	shut-in pressure				psig + 12 =_		·	٠ (
_	hichever well flov	wed through		_	=_	95	•	•
Flowing Temp. (Pd = ½ Pc = ½ (•		°F + 46	U	=-	47	•Ab	•
=(integrated)	(<u>V(d)</u>	==	=		=	мс	F/da
	· -		IVERABILITY	CALCULAT	TON		<u> </u>	
= Q		$P_c^2 - P_d^2$ = -66 $P_c^2 - P_w^2$ = -69	8,567n	1.31	183	=	1 MCF	'/da.
SUMMA	LRY							
c =		520	psia Mcf/day	Company By		111m RAY	PHILLIPS	L
		652.5	psia		Asst M			
d =		477	psic		by	- •		
- -		781	Mcf/day	Company		· · ·		
This is date of Meter error con	completion test.	DEMAE	KS OR FRICTION	ON CALCIU A	TIONS			
GL	(1-e ⁻⁸)	(F _c Q)2	(FeQ)	2 (1-e ^{-s})	F		P _t ² + R ²	Pw
2106	0,148	176,003	125.	R ²	(Col	umn i)		682,
			XXX	~		/AFT	11	
			(/			/ KLLıl	17Fn 🚶	
			V			AUG 2	1 1957	
						OIL CO		
						DIS	ST. S 📝	

NM OCC-3 Truby-1 Peppin-1 File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo	Tapacito	PC Ret	B	Fo	rmation	Pietu	red Clif	fs .	_County_	Rio Ar	riba
Initial X Annual Special Date of Test 6-6-57											
Company Northwest Production Corp. Lease "C" Well No. 4-29											
Unit L Sec. 29 Twp. 26N Rge. 4W Purchaser Not connected											
Cas	ing 5 b	/t. <u>11.5</u>	I.D.		Se	t at_ 34	78 Pe	rf. 335	ю	То	376
Tub	ing 14 h	it. 2.3	I.D.		Se	t at	73 Pe	rf		То	
	Pay: From_										**
Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual											
Date	e of Complet	ion:	5-30-	57	Packe:	r	Sin	gle-Brade Reservo	enhead-G. oir Temp.	G. or	G.O. Dual
							ED DATA				
Test	ed Through	Prote	≠) (Cho)	ke)	(MdVd+1	,			Type Tap	s	
			ow Data				Tubing	Data	Casing D		Ţ
	(Prover)	(Chok	e) Pr		Diff.	Temp.		Temp.	Press.	Temp.	Duration
No.	(Line) Size	(#### Siz		sig	h _w	o _F .	psig	°F.	psig	°F∙	of Flow Hr.
SI							942		1014		SI
1. 2.		3/	4				125	46	851		3 hr
3. 4.		<u>'</u>									
5.									<u> </u>	<u> </u>	
	Coeffici	ent.		TPr			CULATION.	S Gravity	Compre	ss.	Rate of Flow
No.			/ h =	ŀ	-	Fac	tor	Factor	Facto	r	Q-MCFPD @ 15.025 psia
1.	(24-Hou	1) 1	/ wpf		psia	F	t	Fg	Fpv		e 1):02) psia
1. 2. 3. 4. 5.											
20 40	14.160	25		13	7	1.013	7	.9608	1.01	3	1,914
5.											
					PRI	ESSURE C	ALCUIATI	ONS			
as I	iquid Hydro	carbon 1	Ratio			cf/bbl.					rator Gas
	ty of Liqui	•	carbons (1-e	-81		deg.		Speci	fic Gravi	ty Flow	ring Fluid
c			(e				•	^г с——	1026	rc _	332.
$\neg \tau$	P _w		Τ	\overline{T}		- -			2 0	7	
No.	Pt (psia)	$P_{\mathbf{t}}^2$	F _c Q		$(F_cQ)^2$	(F	cQ) ² -e-s)	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	P _W P _C
1.	1 ((psia)										W
1. 2. 3. 4.				-		_		744.8	207	_	3.42
4.				土				144.0		133	
5 .]									· Ca	VL	<u> </u>
Absolute Potential: 5.445 MCFPD; n85/2.845 COMPANY Pacific Northwest Pineline Core.											
ADDRESS 485; W. Broadway, Parmington, N. M.											
	T and TITLE					est Engi			04		
	ESSED PANY									<u></u>	
J ()-11						REM	ARKS				

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_W) . MCF/da. @ 15.025 psia and 60° 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.
- FgI Gravity correction factor.
- F_t 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 $P_{\rm t}$.

g.

DRILLING DEPARTMENT

					COMPAN	Y Nor	thwest	Production	Corp.
					LEASE	нСн	1	WELL	NO. 4-29
					DATE C	F TEST _	6-6-5	57	
SHUT	IN PRESSURE	(PSIG): TUBIN	IG <u>942</u>	CASING	1014	S. I. PE	ERIOD	7	DAYS
SIZE	BLOW NIPPLE	3/4	<u> </u>		···				
FLOW	THROUGH	CK on t	ubing	·	WORKING P	RESSURES	FROM _	Casing	
HOURS	TIME MINUTES	PRESSURE	Q (N 15.025 E	MCFD) PSIA & 60°F	WELLI PRESS	EAD WORK	CING SIG)	TEMP	
	34.5								
-	41.5 50	141				920 912		45	
1	0	133			-	905		47	
	12 26.5	<u>135</u> <u>135</u>				897 888		<u>46</u>	
	44	134				880		46	
2		<u>133</u> 128				861 856		<u>46</u> 46	
3	30	125				851		46	
START	AT:	3:15 pm		E	IND TEST A	т	6.15		
		•					•	•	
KEMAK	K3:	Unloaded sku	or freezing	e min. Li	ght tog o	H ₂ O ER	rongho	it test.	
									





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