Intitle Deliveredility

## 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)

Pool <b>So</b>	uth Blanco		Formation	Pictured	Cliffe	County_	io Arriba	
	Pipeline <b>Pacific</b>							
Operator	orthwest Produ	ction Corp.	Lease	"C"		Well	No. 13-32	
	Sec <b>32</b>				rom3	335	To 3372	
								353
Droduced Th	nrough: Casing	Tubi	ng X	Gas Gravity:	Measured	0.647	Estimated	
Data of Elas	w Test: From 1-3	1-58 To	2-8-58	*Date SIP Me	aggurad	10-9-57		
Meter Run Si	ize4"	Orifi	ice Size	1**	Type Chart	t	Type Taps_	
				ED DATA				
Flowing casin	ng pressure (Dwt)				psig + 12 =		ps	ia (a)
Flowing tubin	g pressure (Dwt)				psig + 12 =	:	ps	ia (b)
	r pressure (Dwt)							
	r pressure (meter readi							
Normal cho	art reading				psig + 12 =			
	t chart reading (	$\frac{1}{2}$ x spring c			=		ps	٠.
• •	) - (d) or (d) - (c)		±		=		ps	i (e)
-	Flowing column to me				_	=	ps	i (f)
• • • • •	low through tubing: (a) erage static meter pres				_		,	- (-)
-	art average reading			676	psig + 12 =	688	ps	sia (g)
Square roo	ot chart average reading	g () <sup>2</sup> x	sp. const		=		ps	sia (g)
	seven day avge, meter				2	688	ps	sia (h)
$P_{\dagger} = (h) + (f)$	•	•			=	- <u>688</u>	ps	sia (i)
Wellhead casi	ing shut-in pressure (D					<u> 1064</u>	ps	sia (j)
Wellhead tubi	ng shut-in pressure (D	wt)		1052	_psig + 12 =	1064	ps	sia (k)
$P_c = (j) \text{ or } (k)$	whichever well flower	d through			=	=1064_	ps	
Flowing Temp	o. (Meter Run)	54_	°F + 40	60	=	=51 <b>4</b>	°/	
$P_d = \frac{1}{2} P_c = \frac{1}{2}$	<b>4</b> (1)				2	532	ps	sia (n)
Q =(integrat	X	\( \lambda_{\text{(q)}} \)	W RATE CAL =	=		=	h	ЛСF/da
	Г	<u>DELI</u> P2 - P2 <b>\</b> =	VERABILIT 7	Y CALCULATIO	<u> </u>			
D = Q	659	$p_{c}^{2} - p_{w}^{2} = \frac{849}{620}$	320	1.3060 (1.3688)		=86	<u>1</u> М	CF/da.
SUM	MARY					_		
P <sub>c</sub> =	106		psia	Company			duction of	Tp.
Q =	65		Mcf/day	Ву		Jones	10-7	002
Pw=		<u>5.4</u>	psia	Title			o upr	
P <sub>d</sub> =	<u>53</u> 86		psia	Witnessed by				
D =		4	Mcf/day	Company				
	of completion test.							
* Meter error	correction factor	DEMAD	KS OR FRICT	ION CALCULATI	IONS			
	T	NEWAN	(F <sub>©</sub> Q		1	Pt <sup>2</sup>		
GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q)2	(1-00)			i	Pt2+R2	Pw
			ļ	R 2	- (0	Column i)		
2169	0.146	263,237	3	8,432	473,	344	511,776	715.4

Fc = 24,62





# NM OCC-6 Peppin-1 Truby-1 Fowler-1 File-1

### NEW MEXICO OIL CONSERVATION COMMISSION

		Form C-122						
	Rev	vised 12-1-55						
Rio	Ar	riba						
t	10-	·9 <b>-</b> 57						
·•								
ted								
33	72							
·								
.Pre								
ingl		•						
		• Dual						
_								
	Ī	Dunation						
mp•		Duration of Flow						
F.	  -	Hr.						
		hrs						
		e of Flow						
	@ ]	15.025 psia						
-	_2	151						
7								
士								
Sepa	rat	or Gas						
Flowing Fluid								
Ca	1.	P.						
P	W_	P <sub>C</sub>						
		2.236						

	1716-1		MU.	LTI-	POINT B	ACK PRES	SUFE TES	ST FOR GAS	S WELLS		Revised 12-1-55
Poo	l ₩ <b>ildc</b> a	t								Rio	Arriba
	tialX										
Com	pany North	west Prod	uction	Cor	' <b>p</b> •	Lease	ii4324		Wel	l No.	13-32
	t <u>I</u>										
											172
Casing       5"       Wt. 11.5       I.D.       Set at 3441.55       Perf. 3335       To 3372         Tubing       1½"       Wt. 2.3       I.D.       Set at 3332.85       Perf.       To											
	Gas Pay: From 3335 To 3372 L xG • 550 -GL Bar. Press.										
	Producing Thru: Casing Tubing X Type Well Single  Single-Bradenhead-G. G. or G.O. Dual										
Date	e of Complet	ion:	0-1-57		Packe	r	Sir	gle-Brade	enhead-G.	G. or (	G.O. Dual
									c.mp.		
	_						ED DATA				
Test	ed Through	Prover	(Chok	<u>(e)</u>	(Meter)	/			Type Tap	s	
	(Prover)		V Data	988	Diff	Temp		Data	Casing D	ata	Duration
No.	(Line) Size	(OFIELD	b/)/					o <sub>F</sub> .			of Flow
SI	2176	Size	ps	P.TR	W <sup>11</sup>	Γ •	1052		psig 1052	r.	Hr.
1.		3/4" T.	c.				165		779		3 hrs
2. 3.											
4. 5.											
<u>5. l</u>								<u> </u>		l	
	<del> </del>					FLOW CAL					
No.	Coeffici	ent		Pre	essure	Flow Fac		Gravity Factor	Compre Facto		Rate of Flow Q-MCFPD
	(24-Hou	r)	hwpf	F	sia	F.		Fg	Fpv		@ 15.025 psia
1.	12,3650			17	7	1.00	058	. 960			2151
1. 2. 3. 4. 5.				-		<del></del>		<del></del>			
4.											
201				L							
					PRI	ESSURE C	ALCULATI	ONS			
	iquid Hydro					cf/bbl.		Speci	fic Gravit	ty Sepa	rator Gas
	ty of Liqui	-	rbons_ (1-e	sì		deg.		Speci	fic Gravit	ty Flow	ring Fluid
C			_(1-6					r c	064	_rc	132.096
	$P_{\mathbf{w}}$				<del> </del>			<del></del>	<del></del>	<del></del>	
No.		$P_{\mathbf{t}}^{2}$	$F_{\mathbf{c}}^{\mathbf{Q}}$		$(F_cQ)^2$	(F	cQ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	1	Pw Pc
-	Pt (psia) 791			_	<del></del>	(1.	-e <sup>-3</sup> )	638 691	506 115	F	M .
1. 2. 3. 4.	731							625.681	506.415		2.236
<del>3. j</del>											
5.										<del> </del>	
	lute Potent	ial:_	4	. 263		_MCFPD;	n .85	/1.982		<del></del>	
COMP.		Northwe	st Pro	duct	ion Cor	poration	1				
	T and TITLE	204 N. La Es G	<u>vecnar</u> ilbert	a. F	armingt st. Drl	on New	Mexico			<del>- 1</del>	
MT.T.N	ESSED										
COMP.	MIN I					REM	ARKS	<del></del>			*

#### 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 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
- $P_t$  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.
- $F_{t}$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n \_ 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  $P_{\mathbf{t}}$ .

#### DRILLING DEPARTMENT

				COMPAN	PANY ACTUMENT PRODUCTION COPP.				
				LEASE	<sup>н</sup> С <sup>н</sup>	WELL NO	), <b>13-32</b>		
				DATE O	OF TEST10-	9-57			
SHUT	IN PRESSURE	(PSIG): TUBIN	NG <b>1052</b> CASING	1052	S. I. PERIOD _	8	DAYS		
SIZE	BLOW NIPPLE	2"							
FLOW	THROUGH	3/4" T.C.	lk" tbg	WORKING P	RESSURES FROM	Casing	· · · · · · · · · · · · · · · · · ·		
HOUR	TIME S MINUTES	PRESSURE	<b>Q (MCFD)</b> 15.025 PSIA & 60°		HEAD WORKING SURE (PSIG)	TEMP			
3		165			779	54			
START		1:00 PH		PID TEGIN A	- A.00 mu	<del></del>			
REMAI		Aivo FR		END TEST A	T 4:00 PM				
				Andrewson and the second secon					
						, in the same			
						711. CON			
				TESTED BY	<sub>y:</sub> L. B. Gili				
				WITNESS:	1.	·			