## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Pool Northwest Monament Formation Queen				Revised 12-1-55
	····	_County	Lee,	New Mexico
Initial X Annual Special		_Date of	Test	0-25 to 11-2-196
Company Shell 011 Company Lease State 18	WA.	Wel	l No	1
Unit Sec14 Twp188 Rge368 Purc				
Casing 5 1/2" Wt. 15.5# I.D. 4.976 Set at 4785 Pe			То	hhio.
Tubing 2" Wt. 4.7 I.D. 1.995 Set at 4415 Pe				
Gas Pay: From 4434 To 4440 L 4415 xG .710				
Producing Thru: Casing Tubing X Sin Date of Completion: 11-2-60 Packer None	ngle-Brade	nhead-G.	G. or	G.O. Dual
	neservo	orr. temb.		
OBSERVED DATA				
Tested Through (Prever) (Cheke) (Meter)		Type Tap	s_ FL	<b>10</b> •
المساور والمراجع		Casing Da		
No. (Line) (Crifice) Press. Diff. Temp. Press.	Temp.	Press.	Temp.	Duration of Flow
Size Size psig h <sub>w</sub> o <sub>F</sub> . psig	o <sub>F</sub> .	psig	°F∙	Hr.
1570		1601	ł	72 hrs.
. 4 1.750 303 8.0 79 1523 . 4 1.750 311 40.0 80 1456		1511		3 25.
		1535	<b></b> _	3 20.
. 4 1.750 416 52.0 73 1393 . 4 1.750 549 72.0 74 1287		1431	<b></b>	3 825.
. 4 1.750 549 72.0 74 1207 . 4 1.750 310 22.0 80 1445		1505		24 kms.
	10	·		
FLOW CALCULATION  Coefficient   Pressure   Flow Temp.	Gravity	Compre	ss.	Rate of Flow
o. Factor	Factor	Facto		Q-MCFPD
$(24-Hour)$ $\sqrt{h_w p_f}$ psia $F_t$	$^{\mathtt{F}}_{\mathtt{g}}$	Fpv		@ 15.025 psia
. 19.27 50.29 316.2 .9822	.9193	1.0		905.6
10.27 113.80 324.2 .9813	.9193	1.0	34	8047
. 19.27 149.40 429.2 .9877	.9193	1.0		2746
. 19.27 201.19 562.2 .9868 . 19.27 84.32 323.2 .9813	.9193 .9193	1.0		37*9 1516
PRESSURE CALCULATI			<b></b>	
s Liquid Hydrocarbon Ratio cf/bbl.	Speci	fic Gravi	ty Sepa	arator Gas .710
ravity of Liquid Hydrocarbons deg.	Speci	fic Gravi	ty Flo	wing Fluid
(1-e <sup>-5</sup> )	P <sub>c</sub>	1614.2	_Pc <b>2</b>	605.6
P <sub>w</sub> 222		<u> </u>	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$P_{w}^{2}$	$P_c^2 - P_w^2$	C	al. Pw
	_			$ \begin{array}{c c} P_{W} & P_{C} \\ P_{W} & P_{C} \end{array} $
. 1590.2	2528.7	75.9		70.7
15-8.2	2396.9 2265.6	208.7 340.0	+	95.9 93.2
· 1505.2	2085.7	519.9	<del> </del>	89.5
1990.2 1548.2 1505.2 1444.2	2304.9	300.7		94.0
absolute Potential: 12,500 MCFPD; n				
COMPANY Shell Oil Company				
ADDRESS P. O. Box 845, Roswell, New Mexico	10 pm	<del>, , , , , , , , , , , , , , , , , , , </del>		
AGENT and TITLE A. L. Rilerd - Gas Tester	U.L. ble	de y		
VITNESSED Joe B. Murrey COMPANY El Pago Hatural Gog Company		ucy.		
REMARKS			<del></del>	1/

## 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
- 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.
- $h_{\mbox{W}}\mbox{{\fontfamily{\fontfamily{1.5}{l}}}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .