

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128  
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator <b>Bell Petroleum Company</b> ✓	Lease <b>Federal</b>	Well No. <b>1</b>		
Unit Letter <b>J</b>	Section <b>17</b>	Township <b>17-S</b>	Range <b>27-E</b>	County <b>Eddy</b>
Actual Footage Location of Well: <b>2310</b> feet from the <b>South</b> line and <b>1890</b> feet from the <b>East</b> line				
Ground Level Elev. <b>3365</b>	Producing Formation <b>Gilco</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>320</b> Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by common agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation \_\_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below:

NOV 24 1964

Owner	Land Description
	<b>B. G. E.</b> <b>ARTESIA, OFFICE</b>

SECTION B

		*	

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name  
*Robert Meyer*  
Position  
**Geologist**

Company  
**Bell Petroleum Company**

Date  
**November 20, 1964**

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

## INSTRUCTIONS FOR COMPLETION OF FORM C-128

1. Operator shall furnish and certify to the information called for in Section A.
2. Operator shall outline the dedicated acreage for *both* oil and gas wells on the plat in Section B.
3. A registered professional engineer or land surveyor registered in the State of New Mexico or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
4. All distances shown on the plat must be from the outer boundaries of the Section.
5. If additional space is needed for listing owners and their respective interests as required in question 3 of Section A, please use space below.

OIL CONSERVATION COMMISSION	
ARTIFICIAL LIFTING OFFICE	
No. Copies	4
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SANTA FE	/
PRODUCTION	
STATE LAND OFF	
U. S. G. S.	/
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FILE	/ -
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RECEIVED

## NEW MEXICO OIL CONSERVATION COMMISSION

NOV 24 1964

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

O. C. C. ARTESIA, NEW MEXICO  
Revised 12-1-55

Pool CIRCO CANYON Formation WOLF CAMP County EDDY  
Initial \_\_\_\_\_ Annual \_\_\_\_\_ Special X Date of Test NOV. 6, 1964  
Company BELL PETROLEUM COMPANY Lease GULF FEDERAL Well No. 1  
Unit 1 Sec. 17 Twp. 17 SOUTH Rge. 27 EAST Purchaser \_\_\_\_\_  
Casing 34 Wt. 13.5 I.D. \_\_\_\_\_ Set at 7609 Perf. 7520 To 7536  
Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 7486 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 7520 To 7536 L 7520 xG 0.752 -GL 5600 Bar. Press. 13.2  
Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well \_\_\_\_\_  
Date of Completion: OCT. 23, 1964 Packer NONE Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. 225°F

## OBSERVED DATA

Tested Through (X) 2 3/8 (Choke) (X) 2 3/8 6" THOMSON CRATER CHOKES Type Taps \_\_\_\_\_  
WERE USED

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI		1333	1333			1333	70	1333	70	81 72
1.		3/32	1205			1205	74	1210	72	4
2.		3/16	1162			1162	75	1173	72	4
3.		1/4	1035			1035	78	1066	72	4
4.		9/32	905			905	78	944	72	4
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>0.5133</u>		<u>1218</u>	<u>0.9868</u>	<u>0.8932</u>	<u>1.179</u>	<u>330</u>
2.	<u>0.7425</u>		<u>1175</u>	<u>0.9859</u>	<u>0.8932</u>	<u>1.167</u>	<u>893</u>
3.	<u>1.1309</u>		<u>1048</u>	<u>0.9831</u>	<u>0.8932</u>	<u>1.146</u>	<u>1418</u>
4.	<u>1.6967</u>		<u>918</u>	<u>0.9831</u>	<u>0.8932</u>	<u>1.125</u>	<u>1918</u>
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio DRY GAS cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
°C 957.2 (1-e<sup>-s</sup>) 0.324

Specific Gravity Separator Gas 0.752  
Specific Gravity Flowing Fluid 0.752  
P<sub>c</sub> 1368 P<sub>c</sub> 1871

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.	<u>1223.2</u>					<u>1493</u>	<u>648</u>		<u>0.859</u>
2.	<u>1186.2</u>					<u>1406</u>	<u>685</u>		<u>0.869</u>
3.	<u>1079.2</u>					<u>1164</u>	<u>792</u>		<u>0.790</u>
4.	<u>957.2</u>					<u>917</u>	<u>914</u>		<u>0.697</u>
5.									

Absolute Potential: \_\_\_\_\_ MCFPD; n \_\_\_\_\_

COMPANY JOHN WEST ENGR. CO.  
ADDRESS 612 NORTH DAL PASO, HOBBS, NEW MEXICO  
AGENT and TITLE R. E. JACOB, GAS ENGR.  
WITNESSED JOHN KELLY  
COMPANY BELL PETROLEUM CO.

## REMARKS

THERE WERE NO THREE POINTS OF THESE FOUR POINTS THAT FELL ON A STRAIGHT LINE, THEREFORE  
A ONE POINT 24 HOUR TEST WAS PERFORMED. RESULTS OF THE ONE POINT TEST ARE SUBMITTED ON  
A SEPARATE FORM.

## 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

$Q$  = 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

$P_w$  = 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.

$h_w$  = Differential meter pressure, inches water.

$F_g$  = Gravity correction factor.

$F_t$  = Flowing temperature correction factor.

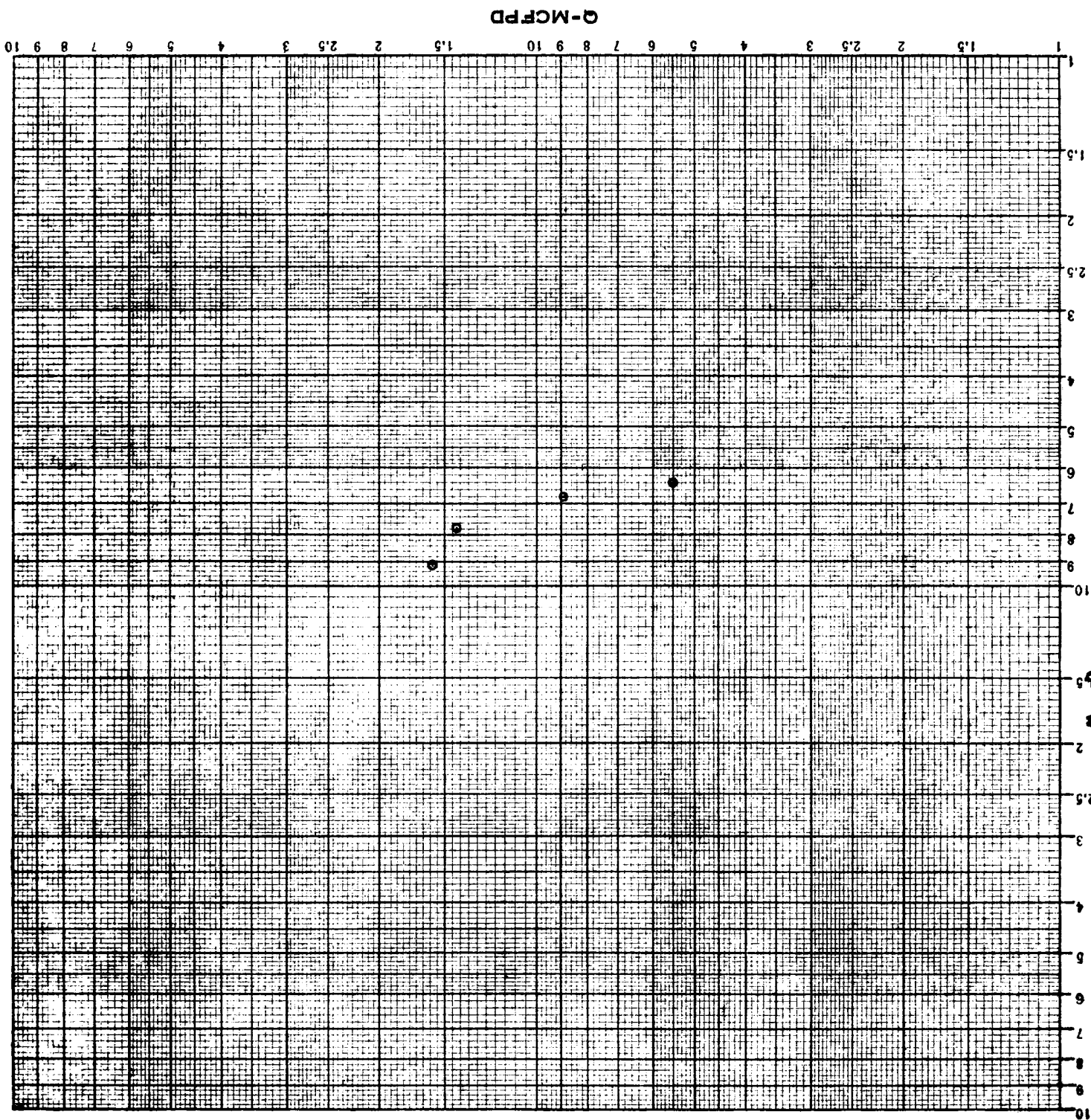
$F_{pv}$  = Supercompressability factor.

$n$  = 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  $P_t$ .

**K&E** LOGARITHMIC 359-110G  
KEUFFEL & ESSER CO. MADE IN U.S.A.  
2 X 2 CYCLES

$P_d - P_w$



COMPANY: BELL PETROLEUM COMPANY  
WELL: GULF FEDERAL NO. 1  
LOCATION: UNIT J, SEC. 17, TWP. 17 SOUTH, RANGE 27 EAST  
COUNTY: EDDY  
DATE: NOVEMBER 6, 1964

OIL CONSERVATION COMMISSION		
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