1755

EL PASO NATURAL GAS COMPANY

Memorandum

To: Mr. L. D. Galloway — Date: September 14, 1959

From: Gas-Production Engineering — Place: Farmington, New Mexico

A record of Dual Completions in the San Juan Basin is as follows:

EPNG Only

148	Duals Completed
17	Drilled and Not First Delivered
13	Drilling
23	To be Drilled by 12/31/59 (est.)
201	

Other Operators

74	Duals Tied In
2	Triple Completions
76	

277 Total

H. L. Kendrick
Gas Engineer

HLK/nb

EL PASO NATURAL GAS COMPANY

Memorandum

To: Mr. L. D. Galloway Date: September 14, 1959

From: Gas-Production Engineering Place: Farmington, New Mexico

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Listed below are the multiple completions producing one zone or all zones on the dates shown.

	EPNG	PNW
February 28, 1959	158	60

Total = 218

	EPNG	PNW
August 31, 1959	192	63

Total = 255

H. L. Kendrick
Gas Engineer

HLK/nb

Case 1755

III.

At present, Rule 112-A II(d) provides that dual completions may be granted administratively without notice and hearing by the Secretary-Director of the Commission if, among other things, "The packer used to segregate the separate producing zones of the dual completion will be a permanent type production packer." Said subsection should be revised and amended so that it will hereafter read:

> "The packer used to segregate the separate producing zones of the multiple completion shall be effective to prevent communication between all producing zones and may be either a permanent or a retrievable type production packer which shall be certified as adequate by the operator as provided in Subsection V(d) of this rule."

IV.

At present, Rule 112-A V(d) is as follows:

> "A packer setting affidavit shall accompany the report of the initial segregation test and packer leakage test."

This subsection should be revised and amended so that it will hereafter read:

> "A packer setting affidavit shall accompany the report of the initial segregation test and packer leakage test and shall include a certification by the operator that the type of production packer to be used is adequate to satisfy the provisions of this rule with regard to the proposed completion."

THE LAYNE & BOWLER CO.

THE LAYNE

Screens, Packers and Specialties

HOUSTON, TEXAS

November 5, 1959

rec'd late

Oil Conservation Commission of New Mexico
Box 871
Sante Fe, New Mexico

Gentlemen:

Enclosed find our packer questionaire and also one of our packer brochures, from which you will note our packers are primarily for use in setting screen, liner, and the only packer we can consider as a production packer is 208, Anchor Packer.

We trust that this gives you the information you desire.

Very truly yours,

THE LAYNE & BOWLER COMPANY

H.C. Block.

H. C. Block,
Plant Manager

HCB:ew
Encl. 2

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
202		Liner	No	1000 lbs. P.S.I.	Non-Critical
204		Liner	No	1000 lbs. P.S.I.	Non-Critical
205		Liner	No	1000 lbs. P.S.I.	Non-Critical
208		Anchor	No	Dependant	Non-Critical

HCB:ew
11-4-59

GOVERNOR

JOHN BURROUGHS
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
MURRAY E. MORGAN
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY DIRECTOR

P. O. BOX 871
SANTA FE

August 21, 1959

Wilson Supply Company
P. O. Drawer 19
Houston, Texas

Gentlemen:

Your attention is called to the enclosed questionnaire which the Oil Conservation Commission of New Mexico is sending to all manufacturers of oil and gas well packers.

The questionnaire is being sent out by the Commission in the hope that the information requested therein will enable us to more properly evaluate the various types of packers and their applicability to different types of completions.

Your cooperation in providing us with the desired information about the packers which you manufacture will be greatly appreciated. Please fill out and return the questionnaire by September 10, 1959, if possible.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/DSN/ig

OIL CONSERVATION COMMISSION OF NEW MEXICO
SANTA FE, NEW MEXICO

Instructions For Completion Of Packer Questionaire

Item 1: Basic Model Number. Show here the model number of each group, type, or family of packers which you manufacture.

Item 2: Variations of Basic Model. List here the model number of each of the different packers which you manufacture under the various groups. Do not consider different sizes of the same packer as a separate variation of the basic model unless the different sizes actually employ different mechanical design and/or setting/retrieving mechanisms.

Item 3: Type of Packer: Simply state how packer is generally described - hook-wall, tension, anchor, etc.

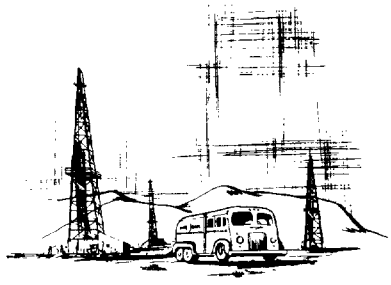
Item 4: This item is probably self explanatory, but may be clarified by asking, "Would this packer be recommended for zone separation in a one-packer dual completion?" If packer would be suitable under some conditions in dual completions, but unsuitable under other conditions, answer would be "Some."

Item 5: Show here the recommended maximum differential this packer should be able to sustain during the life of the well. If the differential is dependent upon other factors such as weight of tubing string, tension on tubing, etc, answer would be "Dependent."

Item 6: If temperature is a critical factor in this packer's ability to withstand presures, give approximate maximum temperature packer can sustain. If temperature is not critical, answer would be "Non-Critical."

LANE WELLS COMPANY

A DIVISION OF DRESSER INDUSTRIES, INC.



Please reply to:
P. O. Box 1407
Houston 1, Texas

September 2, 1959

Mr. A. L. Porter, Jr.
State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

Attached is the filled out copy of the packer questionnaire you requested. If there is any further question we will be happy to reply.

Very truly yours,

F. A. Taylor

F. A. Taylor
Merchandise Manager

FAT/sab

Lone

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer
BOC	BOCL (long stroke)	Hookwalls Valve type	Some	7000 p.s.i. from above. Can be used with Hydraulic Hold Down Anchor to hold pressure from below also.	300° F
BOCU		Anchor, Valve type	Some	As above	300° F
AO		Hookwall, Non-valve	Some	As above	300° F
TOP		Tension	Some	5000 p.s.i. from below only	300° F

BAKER OIL TOOLS, INC.
MAIL ADDRESS: POST OFFICE BOX 3048
HOUSTON 1, TEXAS
OFFICE AND FACTORY
6023 NAVIGATION BLVD.

June 17, 1959

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr., Sectional Director

Gentlemen:

In response to your request of recent date for copies of our current catalog and/or price lists, we are pleased to send you the following:

One 1959 Baker Catalog

Your name has been placed on our mailing list to receive the same quantity of new catalogs and/or price lists as they are issued in the future.

If any additional information concerning our products is desired, please do not hesitate to write us or to contact our nearest office.

Yours very truly,

BAKER OIL TOOLS, INC.

A. L. Lazzio
Staff Assistant

BAKER OIL TOOLS, INC.

MAIL ADDRESS: POST OFFICE BOX 2274 TERMINAL ANNEX

CABLE ADDRESS "BACASO"
MAIN OFFICE AND FACTORY:
7400 E. SLAUSON AVENUE

LOS ANGELES 54, CALIF.

September 16, 1959

Oil Conservation Commission of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

We have become aware of the petition Case No. 1755 now pending before the New Mexico Oil Conservation Commission. We are familiar with the contents of the amendment to Rule 112-A2D and 112-A5D proposed by El Paso Natural Gas Company. Originally, the Rule 112-A2D was proposed to be amended as follows:

> "The Packer used to segregate the separate producing zones of the Multiple Completion shall be effective to prevent communication between all producing zones and may either be a permanent or a retrievable type Production Packer which shall be certified as adequate by the manufacturer or representative thereof as provided in Sub-Section 5D of this rule."

This was subsequently revised to read as follows:

> "The Packer used to segregate the separate producing zones of the Multiple Completion shall be effective to prevent communication between all producing zones and may be either a permanent or a retrievable type Production Packer which will be certified as adequate by the operator as provided in Sub-Section 5D of this rule."

Rule 112-A5D was originally proposed to be amended as follows:

> "A Packer setting affidavit shall accompany the report of the initial segregation test and Packer leakage test and shall include a certification by the manufacturer of such Packer, or authorized representative thereof, that the type of Production Packer to be used is adequate to satisfy the provisions of this rule with regard to the proposed completion."

This was subsequently revised as follows:

> "A Packer setting affidavit shall accompany the report of the initial segregation test and Packer leakage test and shall include a certification by the operator that the type of Production Packer to be used is adequate to satisfy the provisions of this rule with regard to the proposed completion."

Baker Oil Tools, Inc. urges that the New Mexico Oil Conservation Commission consider favorably the application as revised, the revisions being felt by us to be a much more logical vesting of responsibility.

Our company manufactures both types of Production Packers with which this application is concerned. We have, in fact, returned to the Commission a Packer questionnaire completed in sufficient detail to illustrate the conditions under which our various types of Production Packers should perform satisfactorily.

We feel that there have been many technological advances made in recent years which have contributed to the successful performance of both types of Production Packers.

We feel that the effective exploitation of any area to attain the maximum benefit from mineral resources is dependent in part upon the facility of the operating companies to use the most suitable equipment available to accomplish the required job - zonal separation or otherwise. The lack of this facility by the operating companies could conceivably cause irrevocable loss of mineral wealth due to their inability to economically complete and produce certain formations.

We feel that it will be to the ultimate benefit of the State of New Mexico to grant the petition for the applicant.

Yours very truly,

BAKER OIL TOOLS, INC.

E. H. Clark, Jr.
Vice President and
Asst. General Manager

JFM:mg

EQUIPMENT ENGINEERS, INC.
Designers and Manufacturers of Oil Field Equipment
2039 AMELIA STREET • DALLAS 35, TEXAS, LAkeside 6-3873

September 14, 1959

Oil Conservation Commission of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

Enclosed is the "Packer Questionaire" covering packers of our manufacture.

Basically they are not classified as conventional as most of them were designed for special usages such as to seal off casing leaks without gas locking the pump or to permit use of a packer in a well being pumped by electric Reda Pump.

The Standard Packer consists of nothing more than two cups and a mandrel. The Production Packer, Type J, is a heavy duty hook-wall packer.

If we can be of assistance in anyway, we would be most happy to cooperate.

Very truly yours,

EQUIPMENT ENGINEERS, INC.

J. A. Wilson

JAW:R
encls:
Form 11-C
Form GL-1

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
STANDARD PACKER, Type D		CUP	Yes	6,000 psi - Dependent	300°F
GAS LINE PACKER Type D		CUP with Gas Line	Yes	6,000 psi - Dependent	300°F
REDA TYPE PACKER		CUP with provision for Reda cable	Yes	3,000 psi - Dependent	300°F
PRODUCTION PACKER, Type J		HOOKWAL	Yes	10,000 psi - Dependent	300°F Special "Rubber" Elements or Cups can be provided for temperatures to 400°F.

EQUIPMENT ENGINEERS, INC.
2039 Amelia Street
Dallas 35, Texas

J. A. Wilson

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
STANDARD PACKER, Type D		CUP	Yes	6,000 psi - Dependent	300°F
GAS LINE PACKER Type D		CUP with Gas Line	Yes	6,000 psi - Dependent	300°F
REDA TYPE PACKER		CUP with provision for Reda cable	Yes	3,000 psi - Dependent	300°F
PRODUCTION PACKER, Type J		HOOKWAL	Yes	10,000 psi - Dependent	300°F Special "Rubber" Elements or Cups can be provided for temperatures to 400°F.

EQUIPMENT ENGINEERS, INC.
2039 Amelia Street
Dallas 35, Texas

J. A. Wilson

HOMCO
HOUSTON OIL FIELD MATERIAL COMPANY, Inc.

THE OIL INDUSTRY'S MOST *Complete* SERVICE

P. O. DRAWER 2589. HOUSTON 1. TEXAS

September 14, 1959

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

In answer to your letter of August 21, 1959, the "Packer Questionnaire" is being returned as requested.

To help you to better evaluate and compare our Type "E" Packer to other packers being sold, two brochures are enclosed.

If you need any additional technical information, please contact me or the Engineering Department.

Very truly yours,

HOUSTON OIL FIELD MATERIAL COMPANY, INC.

W. E. Sanders

W. E. Sanders
Chief Project Engineer
Mechanical Research

WES:tad

Encls.

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
53-000-2-Type "E"	None	Hook-Wall	Yes	20,000 psi	450°

ESTABLISHED
1919

TELEPHONE
HAMILTON 1-4101

THE GUIBERSON CORPORATION

MANUFACTURERS OF OIL FIELD EQUIPMENT

P. O. BOX 1106 – 1000 FOREST AVENUE

DALLAS 21, TEXAS

September 1, 1959

State of New Mexico
Oil Conservation Committee
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.
Secretary-Director

Dear Sirs,

In accordance with your letter of August 21, 1959, we are attaching hereto information requested on your questionnaire concerning our manufacture of oil and gas well packers.

Should you require any additional information, please do not hesitate to call upon us.

Yours very truly,

THE GUIBERSON CORPORATION

Harry S. Zane, Jr.

Harry S. Zane, Jr.
Sales Manager

HSZ:hb

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
A Drillable Permanent	A,AG,AN,AT, AR,A2R,ANR, ACR	Drillable Tubing or Gun Set	Yes	6000 psi	300°F
W Drillable Permanent	W,WR	Drillable Gun Set	Yes	6000 psi	300°F
RD Dual String Retrievable	Large opening secondary Tension release Snap ring stinger Hydraulic anchor	Hookwall Compression Set	Yes	6000 psi	300°F
L Retrievable	L8,L8P,L30, L30P	Hookwall Compression Set	Yes	6000 psi	300°F
KVL Retrievable	KVL8,KVL8-P, KVL30,KVL30-P	Hookwall Compression Set	Yes	6000 psi	300°F

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer
KV Retrievable	KV8, KV8-P, KV30, KV30-P	Hookwall Compression Set	Yes	6000 psi	300°F
Shorty Production Retrievable	- -	Hookwall Compression Set	Yes	6000 psi	300°F
KAV Retrievable	- -	Anchor Compression Set	Some	6000 psi	300°F
Shorty Tension Retrievable	- -	Tension Set Hookwall	Some	6000 psi Dependent	300°F
AF Tension Retrievable	- -	Tension Set Hookwall	Some	6000 psi Dependent	300°F

TEXAS IRON WORKS

Manufacturing and Servicing Oil Field Equipment

GENERAL OFFICE & PLANT
1423 MAURY STREET
P. O. BOX 16068
HOUSTON 22, TEXAS
CAPITOL 4-0671

EXPORT OFFICE
30 ROCKEFELLER PLAZA
NEW YORK 20, N. Y.

September 9, 1959

Mr. A. L. Porter, Jr.,
Secretary-Director
P. O. Box 871
Sante Fe, New Mexico

Dear Sir:

Enclosed are completed forms as requested in your letter of August 21, 1959.

Yours truly,

TEXAS IRON WORKS

J. W. Gibbs
Sales Manager

JWGIBBS:eb

enclosures: as noted

TEXAS IRON WORKS, INC.
P.O. BOX 16068
HOUSTON 22, TEXAS

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
JSA-C		Hookwall	Some	Dependent	250°F
	w/lead backup	"	"	"	325°F
	w/hyd. holddown	"	Yes	6000 psi	325°F w/lead backup
Hydraseal		"	Some	Dependent	250°F
	w/hyd. holddown	"	Yes	6000 psi	250°F
R		Screw Set	Yes	6000 psi	275°F
SD		Anchor	Some	Dependent	250°F
(Dual String)	HSDL	Anchor	Yes	6000 psi	325°F
C		Anchor	Some	Dependent	250°F
	w/hyd. holddown	Anchor	Yes	6000 psi	250°F

BAKER OIL TOOLS, INC.

MAIL ADDRESS: POST OFFICE BOX 2274 TERMINAL ANNEX

CABLE ADDRESS "BACASO"
MAIN OFFICE AND FACTORY
7400 E. SLAUSON AVENUE

LOS ANGELES 54, CALIF.

September 9, 1959

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: A. L. Porter, Jr.
Secretary-Director

Gentlemen:

In your letter of August 21, 1959 you enclosed a questionnaire with the request that we fill out the information on oil and gas well packers. We are enclosing the questionnaire filled out to the best of our ability.

We hope that you will understand that there are a great many variables involved including the size of packer, the size, weight and grade of casing, and many others over which we have no control. This makes it somewhat difficult to set forth maximum conditions on a broad basis such as you have requested.

We hope, however, that the information will be helpful to you, and that you will not hesitate to contact us further should you desire additional information.

Yours truly,

BAKER OIL TOOLS, INC.

W. S. Althouse
Manager of Research & Engineering

WSA:m
Encls.

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer
Retainer Production Packer - Product #415	-D	Permanent Drillable	Yes	Dependent upon strength of casing the Packer is set in (a)	Non-Critical (b)
	-DA	"	"	"	" "
	-DB	"	"	"	" "
	-DC	"	"	"	" "
	-DF	"	"	"	" "
	-F	"	"	"	" "
	-FA	"	"	"	" "
Retainer Production Packer - Single Trip - Product #416	-H	"	"	"	" "
	-N	"	"	"	" "
Snap Set Packer - Product #635	-M	Retrievable Compression Packer W/Slips	Yes	10,000 (c)	Non-Critical (c)
Snap Set Packer- Product #636	-MOA	"	"	"	" "
	-MOB	"	"	"	" "
	-MOE	"	"	"	" "
Dual Pumping Packer - Product #694	-	"	"	"	" "

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer
Snap Set Packer-Product #636	-MGO	Retrievable	Yes	10,000 psi (c)	Non-Critical (c)
	-MGC	Compression	"	"	" "
	-MGD	Packer W/Slips	"	"	" "
	-MGF	and Anchor	"	"	" "
Retrievable Casing Packer - Product #420	-E	Hookwall	Yes	"	" "
	-EB	"	"	"	" "
Retrievable Casing Packer W/Hold down and/or Unloader - Product #419	-EGJ	Hookwall W/ Anchor & Unloader	"	"	" "
	-EGO	Hookwall with Anchor only	"	"	" "
	-EOJ	Hookwall with Unloader Only	"	"	" "
Tension Packer-Product #739	-A	Tension	Yes	10,000 psi (c)	" "
Dual Snap Set Packer (Single Grip) Product #756	-J	Retrievable Parallel	"	"	" "
	-K	"	"	"	" "

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
Dual Snap Set Packer (Double Grip) Product #757	-J	Retrievable Parallel W/ Anchor	Yes	10,000 psi (c)	Non-Critical (c)
	-JB	"	"	"	" "
	-K	"	"	"	" "

Halliburton OIL WELL CEMENTING COMPANY
DUNCAN, OKLAHOMA

August 26, 1959

WM. D. OWSLEY
SENIOR VICE PRESIDENT

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Dear Sir:

Please find attached two copies of the Packer Questionaire submitted in your letter of August 21.

Under Item 5 in your instructions you have made the statement "Show here the recommended maximum differential this packer should be able to sustain during the life of the well." I am sure that you of course realize that no packer manufacturer will make any guarantee whatsoever as to the life expectancy against leakage and other break down of a packer. There are too many factors over which the packer manufacturer has no control for such guarantee to be given.

Yours very truly,

Wm. D. Owsley

WDO:eg

CC: Mr. R. G. Kelly
Mr. Harry Conroy
Mr. D. R. Yager
Mr. O. L. Stalcup
Mr. Frank Sharp

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

Submitted by: Halliburton Oil Well Cementing Company, Duncan, Oklahoma

Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer
C		Permanent	Yes	12,000 psi at 350°F. temperature for 5 1/2" Csg. size. (Dependent on casing size and temperature)	350°F. (Dependent on Casing size and Pressure)
C-3		Permanent	Yes	12,000 psi at 350°F. temperature for 5 1/2" Csg. size. (Dependent on casing size and temperature)	350°F. (Dependent on Casing size and Pressure)
CL		Permanent	Yes	12,000 psi at 350°F. temperature for 5 1/2" Csg. size. (Dependent on casing size and temperature)	350°F. (Dependent on Casing size and Pressure)
R-3		Tension and Hook Wall	Yes	5000 psi	300° F.
RTTS		Hook Wall with Integral Hydraulic Hold Down	Yes	10,000 psi	300° F.
HM		Hook Wall with Integral Hydraulic Hold Down	Yes	5000 psi	300° F.
HM Type H		Hook Wall with Integral Hydraulic Hold Down	Yes	10,000 psi	300° F.

OTIS ENGINEERING CORPORATION

PRESSURE CONTROL — SERVICE EQUIPMENT

6612 DENTON DRIVE — P. O. BOX 35206

DALLAS 35, TEXAS

September 11, 1959

State Geologist
State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.
Secretary-Director

Gentlemen:

In accordance with your request, dated August 21, 1959, we have filled out the packer information forms and are enclosing them.

Since the nipple packers are not like the conventional hookwall and permanent type packers, we are enclosing a brochure that briefly describes the packer and its operation.

Yours very truly,

OTIS ENGINEERING CORPORATION

L. M. Wilhoit
Vice President for Engineering

LMW:pb
Enclosures

OTIS ENGINEERING CORPORATION

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
12H	12HS	Anchor	Yes	5,000 psi Dependent	300°F
	12HO	Hookwall	Yes	5,000	200°F
	12JO	Hookwall	Yes	5,000	200°F
112A	112AO	Nipple*	Yes	10,000	300°F
	112BO	Nipple	Yes	10,000	300°F
	112SO	Nipple	Yes	10,000	300°F

*Uses Landing Nipple in Casing String

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer

August 24, 1959

Gentlemen:

Hayward Testing Service Manufactures none of the above type packers at the present time.

Very truly yours,

Landes H. Hayward

Landes H. Hayward

3316 Cherry Avenue
Long Beach 8, California.

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
HD100	No	Hookwall	Some	Dependent	400°
P100	No	Anchor	Some	Dependent	300°

Sweet Oil Well Equipment, Inc.
Box 1115
Hobbs, New Mexico

BAKER OIL TOOLS, INC.

MAIL ADDRESS: POST OFFICE BOX 2274 TERMINAL ANNEX

CABLE ADDRESS "BACASO"
MAIN OFFICE AND FACTORY:
7400 E. SLAUSON AVENUE

LOS ANGELES 54, CALIF.

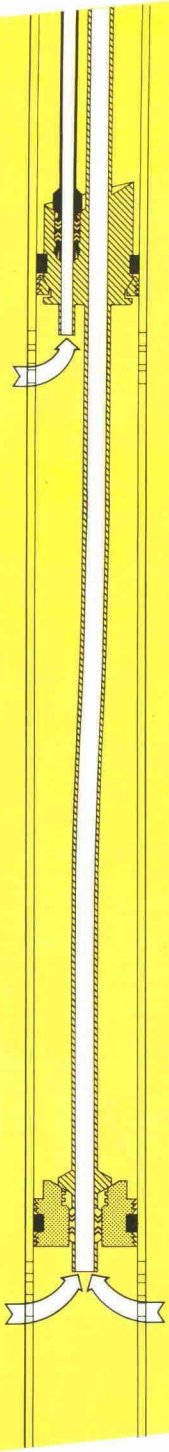
HAVE YOU SEEN BAKER'S NEW DUAL STRING PACKER?

Maybe you've heard about; maybe you saw it at the oil show in Tulsa or maybe you read about it in Baker's new Multiple Completion Guide. Could be you're one of the more than one hundred satisfied operators who have put this beauty to work in the last eight months. You might even be one of the operators who co-operated with us (following our intensive development and testing program) by helping us get field experience with this fine tool. In any case, whether you already know about it or not, the attached folder will give you some new facts about this packer and dual string completions.

Even after you've read the folder, however, you still won't have the complete story. For instance, we didn't have room to tell you how the use of three short packing elements of different but carefully balanced degrees of hardness provide dependable pack-off without the need for metalic back-up rings...rings that can defeat retrievability; or about the specially designed slips with a 15° angle cone which reduces stress both outward against the casing and inward against the bores; or about the multitude of minor design features that increase this packer's value and dependability.

We invite you to take a close look at this new Baker Snap-Set Dual String Packer. Compare it point for point with any competitive packer, then call your local Baker representative (he's a multiple completion specialist) to furnish you with further information or to help you plan a dual string completion.

BAKER OIL TOOLS, INC.



model "J"

model "K"

BAKER *snap-set dual packers*

BAKER

snap-set dual packers

...ARE DESIGNED TO PROVIDE DEPENDABLE PERFORMANCE PLUS COMPLETION CONVENIENCE

Baker Snap-Set Dual Packers can be depended upon to provide the required separation of all zones throughout their producing life as well as during the completion or initial flowing phase. This is because the pressure holding ability of these packers did not have to be compromised to provide operational convenience. Baker Snap-Set Dual Packers are easier to set and release than the simplest of hook-wall packers—just set down a slight amount of weight on the tubing to set—simply pick up to release; no rotation, no ball dropping, no pressuring required—and they can be set and released as many times as desired. They permit bringing in the well up under complete control or in any other way that may be desired for completion convenience.

Baker Snap-Set Dual Packers are designed to be used (1) as the upper packer in a practical two-packer parallel string hookup in which the lower packer is a Baker Retainer Production Packer or (2) as the upper packers in Selective Multiple string hookups that permit the economical production of several zones.

1 **ZONES CAN BE UNLOADED AND WASHED AFTER WELL HEAD IS FLANGED UP**

Through the use of side-door completion valves or sleeve valves (Models "J" and "K" Packers) or through use of wrap-around tubing hangers (Model "J" Packer only) that permit movement of the tubing while keeping it packed off, complete circulation can be established, both zones unloaded and cleaned prior to being placed on production.

2 **FULL-OPENING TUBING STRINGS**

Baker Snap-Set Dual Packers offer full-opening through both sides for two strings of 2⅜" tubing when run in the popular 7" casing size. This important feature may not be found in more elaborate, more expensive packers.

3 **NO ROTATION, NO BALL DROPPING, NO PRESSURE REQUIRED TO SET PACKERS**

The Model "J" Packer can be set by application of a slight amount of set-down weight against a lower Retainer Production Packer. The Model "K" is set by setting down weight on the short string against the resistance of the long string. A snap-latch release mechanism permits either packer to be set and released as many times as desired for measurement, spacing out, displacement, etc.

4 **DOUBLE-GRIP MODEL HOLDS HIGH DIFFERENTIAL PRESSURES FROM BELOW**

Both models of the Snap-Set Dual Packer are available with an integral hydraulic-actuated button-type hold down with directional wickers on the buttons. The greater the pressure differential across these packers from below, the tighter the grip of the anchor to keep the packers from unpacking and being pumped up the hole.

5 **LONG STRING CAN BE PLACED IN TENSION**

The Model "K" Snap-Set Dual Packer, which is set by applying setting down weight on the short string against the resistance of the long string, may be used to hold the long string in more than normal tension in order to permit the straight tubing necessary for any through-the-tubing operation that may be required below the packer.

6 **DYNAMIC PACK-OFF PROPORTIONAL TO PRESSURE DIFFERENTIAL**

The stored energy required to keep the packing element of these Baker packers securely packed off is contained in the tubing string which acts like a spring to take up any slack due to extrusion of the rubber. Packers that rely on a static type of pack off, provided by trapped pressure, cannot take up the slack of rubber pressure loss due to extrusion. Consequently, packers of this type are not as dependable in maintaining pack off except under very constant and carefully selected conditions.

7 **SIMPLICITY OF DESIGN MEANS DEPENDABLE OPERATION AND MINIMUM MAINTENANCE**

Baker Snap-Set Dual Packers contain no complicated internal seals, valves or other elaborate mechanisms. Their design is the essence of simplicity. The packers are easy to understand, operate and redress. Complete stocks of standard parts are readily available.

Fig. 1

Baker Snap Latch Seal Nipple
Product No. 707

Used to seal off short string in sealing bore of packer. Provides positive indication that seal is positioned in packer bore. Set-down weight (3,000 lbs.) snap latches seal nipple in sealing bore. Removed with a pull of 6,000 lbs.

Fig. 2

Baker Telescoping Swivel Sub
Product No. 758

Used to facilitate long tail pipe connection on short string side of dual packer or connection between a Model "K" and a "J" in Selective Multiple hook-ups.

MODEL
Snap-Set Dual Packers

Single-Grip Product No. 756-J

Fig. 3

Double-Grip Product No. 757-J

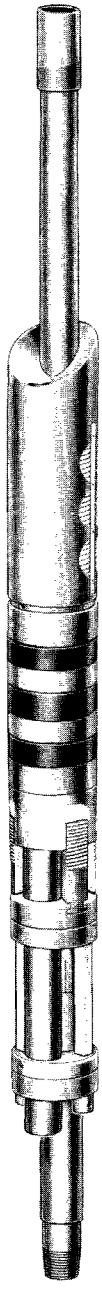


Fig. 4

Model "J" Snap-Set Dual Packers are "long string set." This means that the packer is set by the application of a small amount of "set-down" weight against the resistance provided by a stinger installed in the bore of a previously set lower Retainer Production Packer. Upward movement of the tubing releases and unpacks packer. Packer is available with hydraulic button-type hold-down (Double Grip).

MODEL
Snap-Set Dual Packers

Single-Grip Product No. 756-K

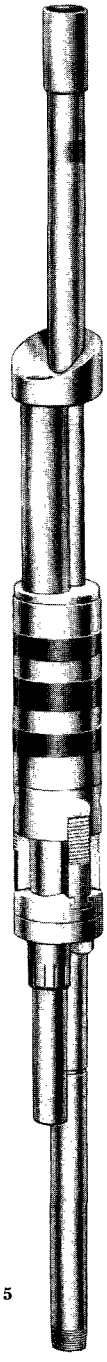


Fig. 5

Double-Grip Product No. 757-K

Fig. 6

Model "K" Snap-Set Dual Packers differ from the closely related Model "J" Packers principally in the method of setting. The Model "K" is "short string set." This means that weight set down on the short string against the long string sets and packs off the packer. Presence of a previously set lower packer is not required for setting. Packer is available with hydraulic button-type hold-down (Double Grip).

BAKER

Produce two zones with convenience, simple components and dependable separation of zones

dual zone

TWO PACKER
DUAL STRING COMPLETIONS

featuring: Baker Snap-Set Dual Packers
Baker Retainer Production Packers

THIS HOOKUP CATEGORY has become extremely popular principally because of the development of improved down-hole equipment including wire line actuated sleeve valves or side-door completion valves and new parallel retrievable packers such as the new Baker Snap-Set Dual Packers. Because there can be many combinations of zones with different characteristics, Baker offers several hookups that provide coverage from the severest of pressure and temperature conditions to the least demanding.

Each of these hookups permits displacement of both tubing strings with the well under complete control. This can be accomplished through use of wire line actuated sleeve valves or side-door completion valves. If the Model "J" Packer is used as the upper packer, the packer can be released, the tubing seal nipples in the lower packer unseated, well fluids displaced through use of a dual wrap-around tubing hanger that packs off both tubing strings at the surface. This cannot be done with the Model "K" Packer. Each hookup features equipment which is devoid of intricate parts and internal seals. All equipment has been thoroughly field tested and proved reliable.

Completion Practice "A" (Fig. 7)

The upper zone is confined to a separately retrievable full opening short string (full opening with some tubing combinations) that seats and seals off in head of Baker Model "J" Single-Grip Snap-Set Dual Packer (Fig. 3). Lower zone confined to full-opening long string that is attached to upper packer and seats and seals off in bore of the lower Retainer Production Packer (Fig. 11).

Lower Retainer Production Packer set on wire line, or tubing. Long string made up to contain seal and spacer nipples for lower packer and Model "J" Snap-Set Dual Packer. Long string run in until locator of tubing seal assembly "locates" on top of Retainer Production Packer. Short String made up to include Snap Latch Seal Nipple (Fig. 1). Short string run into well; Seal Nipple stabbed into sealing bore of Model "J" Packer. Strings can be displaced through sleeve valves, side-door completion valves or through use of wrap around hanger technique.

Completion Practice "B" (Fig. 8)

Should it be desired to complete this hookup with the long string in tension, the Model "K" Packer (Fig. 5), can be used in place of the Model "J" provided a combination of Baker Tubing Seal Nipples, Product No. 448-E1, and Baker Spacer Nipples, Product No. 470-E are run in place of the Locator Tubing Seal Assembly, Product No. 442-E2 to seal off in the bore of the lower packer (Fig. 11).

Completion Practice "C" (Fig. 9)

Should it be desirable and possible to use retrievable packers for both the upper and lower packers then a hookup involving the Baker Model "K" Single-Grip Snap-Set Dual Packer and the Model "E" Retrievable Casing Packer is possible.

Both upper and lower packers are made up on long string and run in to setting depth. Short string and Snap Latch Seal Nipple run in and stabbed into sealing bore of Model "K" Packer. Model "E" Packer is set by rotating ¼ turn to right and setting down weight on the long string. Model "K" Snap-Set Dual Packer is set by setting weight down on the short string against the long string.

Artificial Lift

GAS-LIFT—Both zones can be gas lifted using the casing as a gas reservoir. Pre-planned gas-lift installations can be made in which housings for wire line gas-lift mandrels are made up into initial tubing strings. When gas-lift is required, annular fluid is removed, and mandrels are run in on as instrument line and are installed in the housings.

PUMPING—Either or both zones can be pumped, however, it is difficult to vent either zone.

Advantages

Permits complete isolation of each zone at all times, loading of annulus and gas-lift of both zones using annulus as a reservoir. Prime disadvantage is inability to vent either zone for pumping.

A

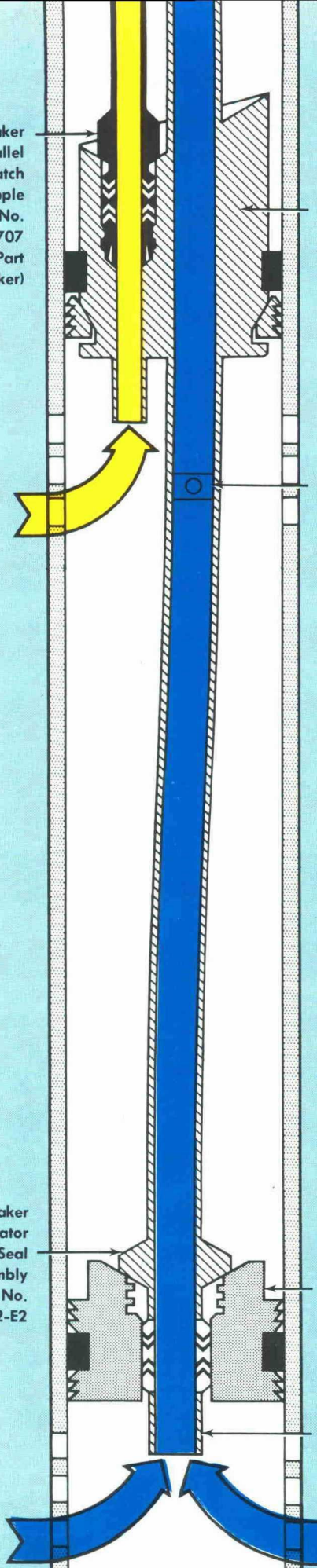


Fig. 7

B

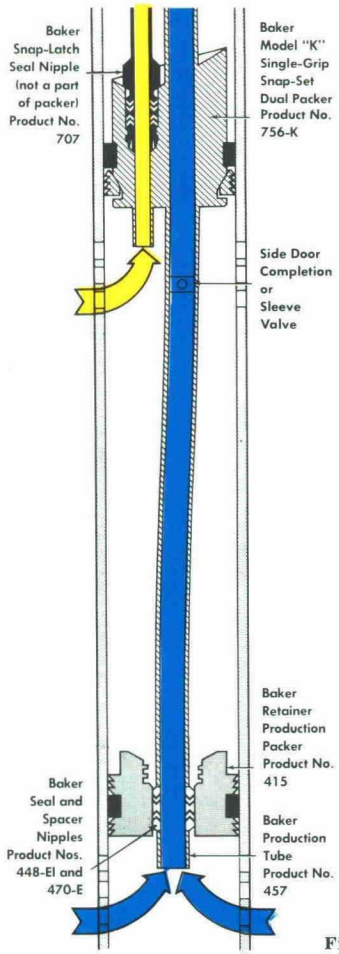


Fig. 8

C

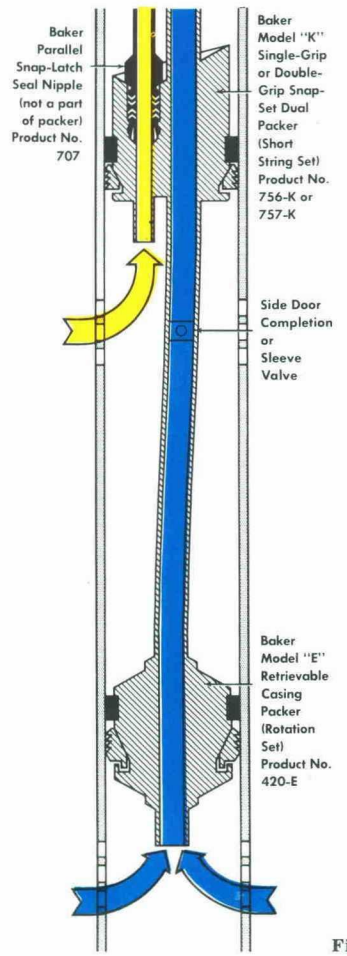


Fig. 9

BAKER

Produce three, four, five or more zones through one well bore with the simplicity and convenience of a dual completion

selective multiple zone

MULTIPLE PACKER
DUAL STRING COMPLETIONS

featuring: Baker Snap-Set Dual Packers
Baker Retainer Production Packers

DUAL STRING HOOKUPS with alternate zones isolated by additional packers (Fig. 10) may be the answer to the expense and exacting requirements of complex and mechanically difficult triples and quads. By this method, one or more zones can be selectively opened to the tubing string (s) through use of piano-wire-actuated sleeve valves, non-ported nipples and blank mandrels or ported nipples. This technique is particularly applicable in areas where zones can only be produced a few days out of each month (limited allowable). Under these conditions alternate production from several zones would be economical.

Advantages

This type of hookup is more economical because no more than two strings of tubing are ever used. Four or five zones can be produced in 7" casing using two strings of 2⅜" tubing. Normally four-string quads must be made in 9⅝" casing in order to accommodate four strings of tubing. Hookup is comprised of readily available competitively priced components. No premium need be paid for special equipment. Hookup is easier to install and requires less installation time.

Completion Practice

Installation features Baker Model "K" and Model "J" Single-Grip Snap-Set Dual Packers (Figs. 3 and 5) and two or more Retainer Production Packers (Fig. 11). The hookup illustrated shows production from an alternate zone to the lower zone, and production from the upper zone. By blanking-off the long string, through the installation of a blank mandrel in the proper non-ported nipple and opening the corresponding sleeve valve, production from the lower zone, alternate to the lower zone or alternate to the upper zone can be produced through the long string. The upper zone or the alternate to the upper zone can be produced through the short string by closing or opening the ported nipple.

The Retainer Production Packers are first run and set on a wire line or tubing. The long string is made up to include all seal nipples for the lower packers, required number of ported nipples and corresponding sleeve valves, and the lower Snap-Set Dual Packer. This string is run into the well to a depth equal to the spacing required between the two upper packers. The short string is made up with the lower Snap Latch Seal Nipple (Fig. 1) and the properly positioned blanked off ported nipple. The lower portion of the short string is then run in and is stabbed into the sealing bore of the lower dual packer. It is then connected to the tailpipe on the short string side of the upper dual packer. A special Telescoping Swivel Sub (Fig. 2) is available to facilitate this connection. When this swivel sub is used, it is necessary to remove the top guide, receptacle and short string tubing seal nipple from the top packer. The short string will then be directly connected to the packer. This entire assembly is then run into the hole on the long string to the desired depth. The short string containing the Snap Latch Seal Nipple is run into the well and is stabbed into the sealing bore of the upper packer.

The upper packers are set by the application of set-down weight. No rotation is required. Both Baker Models "J" and "K" Snap-Set Dual Packers can be set, released and re-set repeatedly as desired. Well fluids can be displaced as individual tubing strings are run and landed, by swabbing, or by actuating the wire line operated valves as illustrated.

Artificial Lift

GAS-LIFT—Single or dual string installations can be gas-lifted using casing as gas reservoir.

PUMPING—Each zone can be pumped as it is opened to the tubing string, but cannot be vented.

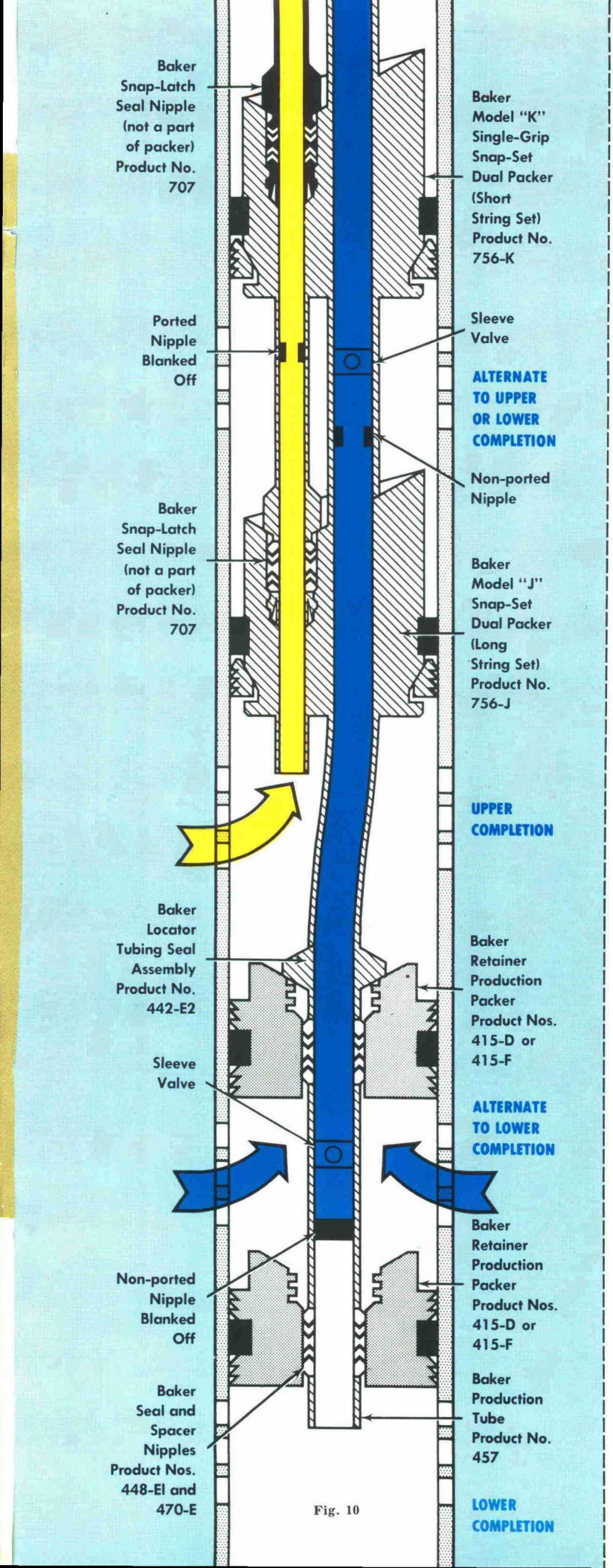


Fig. 10

WHY USE A DRILLABLE PACKER FOR THE LOWER PACKER?

Experience has shown that many of the difficulties that have been experienced with dual zone, dual string, two-packer installations have been in connection with the lower packer.

This packer is the packer that performs the vital separation of zones—a job that it must do continuously throughout the life of the well. It is safe to say that the packer selected for the lower packer must, above all else, be a packer that offers dependable, long-lasting performance under the greatest variety of conditions.

In the selective multiple hook-ups where several zones may be isolated by packers, this same performance requirement also exists. It may be several years before each zone has been fully depleted, yet throughout this entire period these packers must provide absolute separation of zones.

The Baker Retainer Production Packer (Fig. 11), without question, offers the most reliable, longest-lasting pack off under the greatest variety of conditions, which include the highest of pressure differentials even under temperatures in excess of 300°.

An additional advantage stems from the fact that the Retainer Production Packer is designed to be removed by drilling out. Under many conditions where an operator might be concerned over the amount of steel in the hole, known drillability might easily outweigh questionable retrievability.

The recent development of the Baker Packer Milling Tool has reduced the time required to mill up a Retainer Production Packer by as much as 75%.

Fig. 11

Baker Retainer Production Packer

Fig. 12

Baker Locator Tubing Seal Assembly

BAKER OIL TOOLS, INC.

HOUSTON
LOS ANGELES
NEW YORK

MODEL "J"
Single-Grip
Snap-Set
Dual Packer
Product No.
756-J

MODEL "J"
Double-Grip
Snap-Set
Dual Packer
Product No.
757-J

MODEL "K"
Single-Grip
Snap-Set
Dual Packer
Product No.
756-K

MODEL "K"
Double-Grip
Snap-Set
Dual Packer
Product No.
757-K

15M-5-59

LITHO IN USA

PAGE OIL TOOLS, INC.

Production Specialties

MAIN OFFICE AND PLANT: 3356 LIME AVENUE · P.O. BOX 7097
LONG BEACH 7, CALIFORNIA

TELEPHONE GARFIELD 4-3546
NEVADA 6-4429
CABLE ADDRESS: "PAGOIL"

September 18, 1959

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: A. L. Porter, Jr.
Secretary-Director

Gentlemen:

In reference to your letter of August 21, 1959, enclosed please find packer questionnaire.

Yours very truly,

PAGE OIL TOOLS, INC.

John S. Page
President

JSP:vr
Enclosures

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
VP 725-E	None	Hookwall with Valve operated by wire line to by-pass fluid in casing annulus.	Yes	7,000# minimum 8,800# maximum	350°
MP 725-A	None	Cup type Pressure seal multiple selective zone packer.	Yes	6,000#	150-180°

OIL CONSERVATION COMMISSION OF NEW MEXICO
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SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

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Wilson "LB" Packer	LBSB (Automatic bottom) w/orw/o- Hyd. H.D.	Hook wall Production Packer	NO.	Dependent	300De Frn.
Wilson "MB" Packer	MBSB-w/ automatic btm. w/orw/o Hyd H.D.	DO	NO.	do	350 De. Frn
Wilson Latch Type "MB" Packer	With or w/o Hyd. Hold down.	Fracturing, Acidizing and Dual comp- letion.	SOME	do	350 De. Frn.

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

McGAFFEY-TAYLOR CORP.
2877 CHERRY AVE.
LONG BEACH 6, CALIF.

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
		NONE			

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

McGAFFEY-TAYLOR CORP.
2877 CHERRY AVE.
LONG BEACH 6, CALIF.

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

McGAFFEY-TAYLOR CORP.
2877 CHERRY AVE.
LONG BEACH 6, CALIF.

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer

ESTABLISHED
1919

TELEPHONE
HAMILTON 1-4101

THE GUIBERSON CORPORATION

MANUFACTURERS OF OIL FIELD EQUIPMENT

SAFE THAN SORRY — BETTER BE ®

P. O. BOX 1106 – 1000 FOREST AVENUE

DALLAS 21, TEXAS

September 14, 1959

State of New Mexico
Oil Conservation Commission
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.,
Secretary Director

Gentlemen:

This Corporation, a manufacturer of retrievable hookwall packers concurs with the application as amended and submitted to the State of New Mexico Oil Conservation Commission by El Paso Natural Gas Company, relating to the usage of such type packers.

Further, this is to introduce Mr. Earl W. Davis, our Assistant Sales Manager, who is qualified to testify in our behalf as to the use of retrievable hookwall packers in dually completed wells.

Very truly yours,

THE GUIBERSON CORPORATION

C. W. Smith

Executive Vice President

APS/dm

ATLANTIC

THE ATLANTIC REFINING COMPANY
INCORPORATED 1870
PETROLEUM PRODUCTS
ATLANTIC BUILDING
DALLAS, TEXAS

DOMESTIC PRODUCING DEPARTMENT
PRODUCTION DIVISION
F. W. TURNER, MANAGER
V. E. STEPP, CHIEF PET. ENGR.
R. O. CHILDERS, GEN'L. DRILLING SUPT.
W. L. BOWSER, SUPT. OF NATURAL GAS
H. D. ROBINSON, SUPT. OF MATERIALS
D. W. BUCHANAN, SUPV. OF CLERICAL AND RECORDS

September 14, 1959

MAILING ADDRESS
P. O. BOX 2819
DALLAS 21, TEXAS

Mr. A. L. Porter
Secretary Director
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

The Atlantic Refining Company would like to go on record as concurring with El Paso Natural Gas Company's application, as amended, to revise Subsections II(d) and V(d) of Rule 112-A of the Rules and Regulations, New Mexico Oil Conservation Commission. The application relates to the type of production packer required for administrative approval of multiple completions.

Our experience, gained through shop testing and field usage, indicates that retrievable production packers presently available from all major packer manufacturers are just as effective as permanent type drillable packers for isolating production zones at pressure differentials up to 6000 psi and at temperatures up to 300°F.

Very truly yours,

V. E. Stepp

V. E. Stepp

Brown Oil Tools, Inc.

8490 KATY ROAD • HOUSTON 24, TEXAS

September 8, 1959

DOS 3009-59

Subject: Packer Questionaire

Oil Conservation Commission of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

We are attaching the completed Packer Questionaire as requested in your letter of August 21, 1959. Although this is a complete listing of our packers which would conceivably be used for multiple completions in New Mexico at this time, we are constantly developing new ideas and concepts in packer materials and designs. As each tool is perfected, an addition would be necessary to keep this list current.

We trust that the information supplied is sufficient, but if you need additional data, we will be glad to furnish it.

Very truly yours,

BROWN OIL TOOLS, INC.

John B. Davis, Jr.

JBD:jac
Enclosure

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

Brown Oil Tools, Inc.
P. O. Box 19236
Houston 24, Texas
Page 2

PACKER QUESTIONAIRE

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
Brown Duo-Pak		Hookwall	Yes	Dependent	300° F
	PS-3	Hookwall	Yes	Dependent	300° F
	PS-4	Hookwall	Yes	Dependent	300° F
Brown Cam-Lok		Hookwall Tension or Weight-Set	Yes	Dependent	300° F
Brown RS-1			Yes	Dependent	Over 300° F
	RS-2		Yes	In excess of 5,000 psi	Over 300° F
Brown SOS J-7		Hookwall	Yes	In excess of 5,000 psi	250° F
Brown DS-4		Anchor, Dual String	Yes	Dependent	Over 300° F
	DS-3	Anchor, Dual String w/Hyd. Hold-Down	Yes	In excess of 5,000 psi	Over 300° F
Brown DS-8	DS-8-2	Hookwall Triple String	Yes	In excess of 5,000 psi	250° F
	DS-8-3	Hookwall Triple String	Yes	In excess of 5,000 psi	250° F
Brown DS-9-2		Anchor, Dual String	Yes	Dependent	Over 300° F
	DS-9-2H	Anchor, Dual Strings w/Hyd. Hold-Down	Yes	In excess of 5,000 psi	Over 300° F

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

Brown Oil Tools, Inc.
P. O. Box 19236
Houston, Texas

(1) Basic Model No.	(2) Variations of Basic Model	(3) Type of Packer	(4) Is this Packer Recommended for Permanent Zone Separation in Dual Completions	(5) Maximum Pressure Differential for which you would Recommend this Packer	(6) Maximum Temperature for which you would Recommend this Packer
Brown HS-16-1		Hydraulic Set Hookwall	Yes	Unlimited	Over 300° F
Brown HS-8	HS-8-1	Hydraulic Set Hookwall	Yes	Dependent	Over 300° F
	HS-8-2 HS-8-3 HS-8-4 HS-8-5	Same as above except for multiple tbg. strings dual, triple, quadruple and Quintuple	Yes	Dependent	Over 300° F
	HS-8-1C	Hyd. Set Hookwall w/Hyd. Hold-Down	Yes	In excess of 5,000 psi	Over 300° F
	HS-8-2C HS-8-3C HS-8-4C	Same as above except for multiple tubing strings	Yes	In excess of 5,000 psi	Over 300° F
Brown Boll-Weevil		Hookwall	Yes	In excess of 5,000 psi	300° F
	BW-1	Anchor	Yes	In excess of 5,000 psi	300° F
	BW-2	Anchor	Yes	In excess of 5,000 psi	300° F
	Boll-Weevil By-Pass	Hookwall	Yes	Dependent	300° F
Brown BP-4		Hookwall	Yes	In excess of 5,000 psi	300° F
	4-A	Hookwall	Yes	In excess of 5,000 psi	300° F
Brown B-4		Hookwall	Yes	In excess of 5,000 psi	300° F

CLASS OF SERVICE
This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION
TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS
DL=Day Letter
NL=Night Letter
LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

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A L PORTER, NEW MEXICO OIL CONSERVATION COMMISSION=

CAPITOL ANNEX BLDG SANTA FE NMEX=

CASE 1755 OF THE NEW MEXICO OIL CONSERVATION COMMISSIONVS DOCKET FOR THE REGULAR HEARING SEPTEMBER 16 1959 IS EL PASO NATURAL GAS COMPANY VS APPLICATION TO AMEND RULE 112=A OF THE COMMISSION RULES AND REGULATIONS. WE UNDERSTAND THE PROPOSED AMENDMENT WILL PROVIDE FOR ADMINISTRATIVE APPROVAL OF DUAL COMPLETIONS UTILIZING RETRIEVABLE=TYPE PACKERS. PAN AMERICAN PETROLEUM

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

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CORPORATION SUPPORTS THIS APPLICATION AS WE BELIEVE DUAL COMPLETIONS UTILIZING RETRIEVABLE=TYPE PACKER PROVIDE AN EFFECTIVE METHOD OF SEGREGATING THE SEPARATE PRODUCING ZONES OF A DUAL COMPLETION=

ALEX CLARKE JR PAN AMERICAN PETROLEUM CORP==

1959 SEP 14 PM 1:42

MAIN OFFICE OCC

1755 16 1959 112=A

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

GOVERNOR
JOHN BURROUGHS
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
MURRAY E. MORGAN
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY DIRECTOR

File Packer Case File

P. O. BOX 871
SANTA FE

August 21, 1959

Gentlemen:

Your attention is called to the enclosed questionnaire which the Oil Conservation Commission of New Mexico is sending to all manufacturers of oil and gas well packers.

The questionnaire is being sent out by the Commission in the hope that the information requested therein will enable us to more properly evaluate the various types of packers and their applicability to different types of completions.

Your cooperation in providing us with the desired information about the packers which you manufacture will be greatly appreciated. Please fill out and return the questionnaire by September 10, 1959, if possible.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/DSN/ig

OIL CONSERVATION COMMISSION OF NEW MEXICO
SANTA FE, NEW MEXICO

Instructions For Completion Of Packer Questionaire

Item 1: Basic Model Number. Show here the model number of each group, type, or family of packers which you manufacture.

Item 2: Variations of Basic Model. List here the model number of each of the different packers which you manufacture under the various groups. Do not consider different sizes of the same packer as a separate variation of the basic model unless the different sizes actually employ different mechanical design and/or setting/retrieving mechanisms.

Item 3: Type of Packer: Simply state how packer is generally described - hook-wall, tension, anchor, etc.

Item 4: This item is probably self explanatory, but may be clarified by asking, "Would this packer be recommended for zone separation in a one-packer dual completion?" If packer would be suitable under some conditions in dual completions, but unsuitable under other conditions, answer would be "Some."

Item 5: Show here the recommended maximum differential this packer should be able to sustain during the life of the well. If the differential is dependent upon other factors such as weight of tubing string, tension on tubing, etc, answer would be "Dependent."

Item 6: If temperature is a critical factor in this packer's ability to withstand presures, give approximate maximum temperature packer can sustain. If temperature is not critical, answer would be "Non-Critical."

OIL CONSERVATION COMMISSION OF NEW MEXICO
BOX 871
SANTA FE, NEW MEXICO

PACKER QUESTIONAIRE

(1)	(2)	(3)	(4)	(5)	(6)
Basic Model No.	Variations of Basic Model	Type of Packer	Is this Packer Recommended for Permanent Zone Separation in Dual Completions	Maximum Pressure Differential for which you would Recommend this Packer	Maximum Temperature for which you would Recommend this Packer