

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

SF 079232

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NM

8. Well Name and No.

Bolack C LS #9

9. API Well No.

3004506152

10. Field and Pool, or Exploratory Area

S. Blanco Pictured Cliffs
Blanco Mesaverde

11. County or Parish, State

San Juan NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Cross Timbers Operating Company

3a. Address

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1,650' FNL & 990' FEL Sec 31, T27N, R08W

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>Approval for</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | <u>DHC Workover.</u> |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Cross Timbers is requesting approval to DHC the above mentioned well. Cross Timbers has received a copy of the approved DHC application from NMOC (DHC-2299). Enclosed is a copy of the procedure that will be used to complete the workover. Cross Timbers would like to begin as soon as approval is granted.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) Jim Patta

Title

Production Engineer

Date 5-7-99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Jim Patta

Title

Acting Team Lead

Date

5/17/99

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

NMOC



Bolack "C" LS #9

DHC the MV & PC WORKOVER PROCEDURE

WI – 100.0000%
NRI – 67.5000%

Casing: Surface: 10-3/4", 32.75# csg @ 171' KB.
Intermediate: 7 5/8", 26.4#, J-55 csg @ 4,245' KB.
Liner: 5 1/2", 15.50#, J-55 csg fr/4,693'-4,117' KB.
PBTD (drillers) 4,430' KB.

Perforations: Pictured Cliffs fr/2,018'-2,070' (2 JSPF).
Mesaverde fr/4,330'-82' & 4,410'-20' (2 JSPF).

Tubing: Dual Strings:
(LS) 132 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg, Baker model "G" pkr, 4 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg, SN & 1 jt 2-3/8" tbg. Landed EOT @ 4,384'. SN @ 4,353'. Pkr @ 4,221'.
(SS) 95 jts 1-1/4", grade "B" line pipe(?), 3 jts 2.4#, J-55, EUE, 10RD tbg & SN. Landed @ 2,093'. SN @ 2,092'.

Current Status: MV currently flwg @ 104 MCFPD, FTP 117 psig.
PC currently flwg @ 4 MCFPD, FTP152 psig, SICP 151 psig.

Objective: Remove 1-1/4" siphon string & 2-3/8" tbg & packer. CO well to PBTD. RWTP as a DHC.

1. Test anchors on location.
2. MIRU PU, pmp & pit. Fill pit w/2% KCl wtr. MI ±10 jts of inspected and press tstd yellow band 2-3/8" tbg. Check and record tubing, casing and bradenhead pressures. Record production & pit tank gauges, if possible.
3. Blow down well and kill w/2% KCl wtr if necessary.
4. ND WH. NU and pressure test BOP's.
5. TOH & LD 1-1/4" siphon string tbg. Return 1-1/4" tbg to CTOC yard for inventory & inspection. Notify Larry Babcock that tbg has come from the Pictured Cliffs reservoir.
6. RU to pull 2-3/8" tbg. The Baker "G" packer (@ 4,221' KB) is a compression set packer with a straight pull to release. Refer to the packer description for more information on releasing the pkr.
7. If pkr appears to be moving freely, PU & TIH w/tbg. Tag PBTD (4,430').
8. TOH w/tbg. Tally & visually inspect tbg while TOH. If pkr will not release. RU WL unit. RIH w/free point & chemical cutter. Cut tbg above pkr.
9. Fish for packer and remaining tbg if required. TOH & LD packer & bad 2-3/8" tbg. Replace bad tbg as needed. Return bad 2-3/8" tbg to CTOC yard. Notify



Larry Babcock that bad tbg is being returned from the Mesaverde side of the well.

10. If fill was found in step 7 or unable to complete step 7 then either PU & TIH w/4-3/4" cone bit, SN & 2-3/8" tbg and tag for fill or PU & TIH w/pmp bailer. CO fill (if any) w/pmp bailer to PBTD @ 4,430' KB.
11. TOH. LD BHA.
12. TIH w/mule shoe collar, SN & ± 141 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Tally tbg while TIH & tag for fill. Report to CTOC engineering if top of fill is higher than 4,425' KB. Land end of mule shoe @ $\pm 4,375'$ KB.
13. ND BOP. NU WH. RU swab. Swab well to pit. Gauge production. Once well can produce & stay unloaded, RWTP dwn sales. Sell gas through MV separator & mtr run (mtr #71980). Notify Vern Thomas that RTU & mtr will be used for both MV & PC production. Adjust orifice plate accordingly.
14. Install either Weatherford or PCS seating cup bmpr spring assy. Followed bmpr spring assy to btm w/swab line. Drop dual pad style plngr. Report type of plngr lift system installed for database tracking.
15. RDMO PU. RU SU if necessary.
16. Notify Vern Thomas & EPFS that the PC mtr run (mtr #71979) & RTU (#1598) can be removed and returned to CTOC for salvage.
17. Test well with screw compression. Est volume should be 250 MCFPD w/an average line pressure of 130 psig.

Approvals:

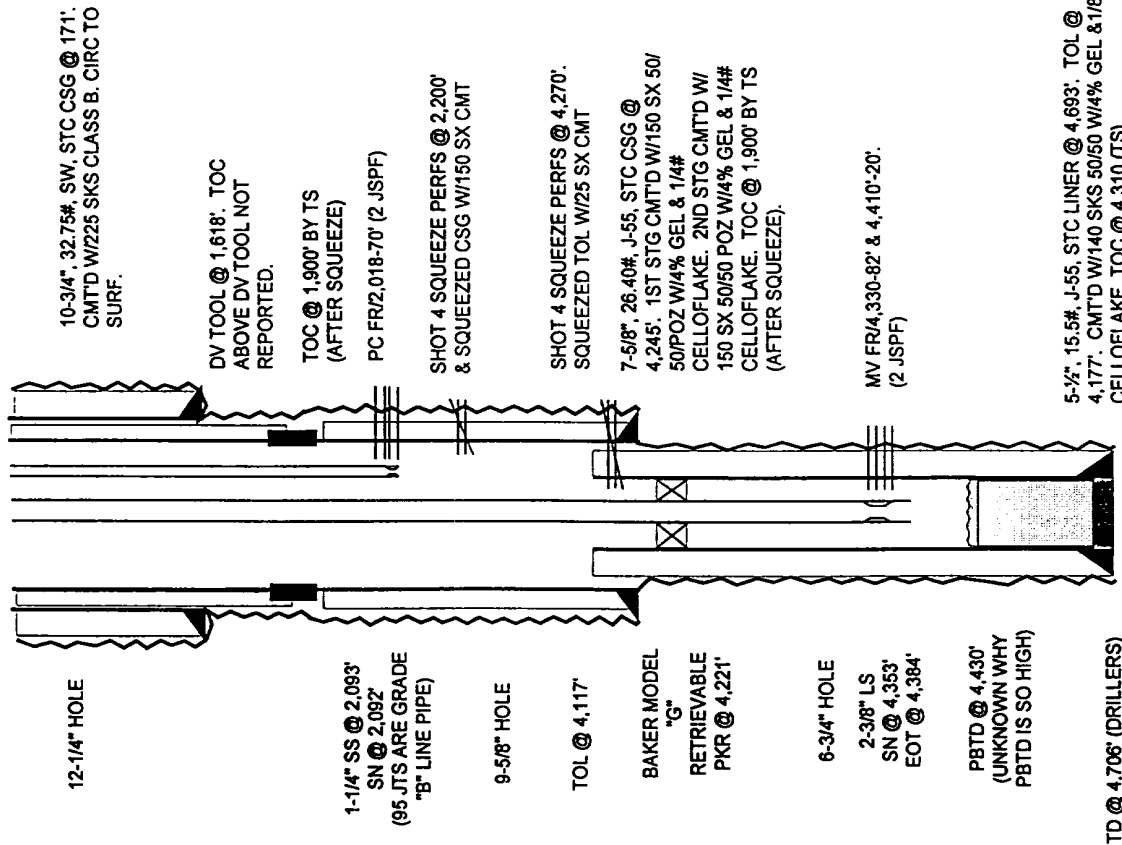
 3/29/99

BOLACK "C" LS #9 WELLBORE DIAGRAM

KB: 6,126'
GL: 6,116'
CORR: 10'

DATA

LOCATION: 1,650' FNL & 990' FEL, UNIT H, SEC 31, T27N, R08W
COUNTY/STATE: SAN JUAN COUNTY, NM
FIELD: BLANCO MESAVERDE / SOUTH BLANCO PICTURED CLIFFS
FORMATION: MESAVERDE / PICTURED CLIFFS
NM LEASE#: SF-079232 API#: 30-045-06152 CTOC WELL#: 70103 & 70104
SPUD DATE: 6/13/57 COMPLETION DATE: 8/28/57
IP: (MV) 2,830 MCFPD, 3/4" CK, 3 HRS.
(PC) 1,964 MCFPD, 3/4" CK, 3 HRS.
PRODUCTION METHOD: DUAL FLWG GAS WELL
TUBING STRING: (LS) 132 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, BAKER MODEL "G" PKR, 4 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, SN & 1 JT 2-3/8" TBG. LANDED EOT @ 4,384'. SN @ 4,353'. MODEL "G" PKR @ 4,221'.
(SS) 95 JTS 1-1/4", GRADE "B" LINE PIPE(?), 3 JTS 2.4#, J-55, EUE, 10RD TBG & SN. LANDED @ 2,093'. SN @ 2,092'.
PERFS: MESAVERDE (POINT LOOKOUT) 4,330'-82' & 4,410'-20' (2 JSPF).
PICTURED CLIFFS 2,018'-70' (2 JSPF).



HISTORY

06/13/57 SPUNDED 12-1/4" HOLE WITH COX CABLE TOOL RIG #1.
06/14/57 RAN 4 JTS 10-3/4", 32.75', SW, CSG @ 171'. CMTD W/225 SX REG CMT. CIRC CMT TO SURFACE. RD CABLE TOOL RIG.
08/01/57 MIRU CM CARROLL ROTARY DRILLING RIG #8. STD MAKING HOLE.
08/12/57 RIH W/SCHLUMBERGER ES & ML LOG. LOGGED FR4,252'.
08/13/57 RAN 104 JTS 7-5/8", 26.4', J-55 CSG @ 4,245'. DV TOOL @ 1,618'. 1ST STG CMTD W/150 SX 50/50 POZ W/4% GEL & 1/4# CELLOFLAKE. 2ND STG CMTD W/150 SX 50/50 POZ W/4% GEL & 1/4# CELLOFLAKE. RAN TS. DID NOT RECORD TOC (1ST STG). DID NOT RECORD TOC ABOVE DV TOOL (2ND STG).
08/15/57 PERF'D CSG W/4 HOLES @ 2,200' & SQUEEZED W/150 SX NEAT CMT. FINAL SQUEEZE PRESSURE 2,600 PSIG. TOC @ 1,900' BY TS.
08/17/57 SET RETAINER TO SQUEEZE SHOE. UNABLE TO EIR. DID NOT SQUEEZE.
08/19/57 REACHED TD OF 6-3/4" HOLE @ 4,706'.
08/20/57 RAN 17 JTS 5-1/2", 15.5', J-55 LINER FR4,177' - 4,693'. CMTD W/140 SX 50/50 POZ & 4% GEL. TOC 4,310' BY TEMP SUR. TOL LEAKING.
08/21/57 PERF'D CSG W/4 HOLES @ 4,270'. SET BAKER MODEL "K" RETAINER @ 4,214'. SQUEEZED TOL W/25 SX NEAT CMT. FINAL SQUEEZE PRESSURE 2,000 PSIG.
08/22/57 DO SQUEEZE CMT TO PBTD @ 4,430'(?). UNKNOWN WHY PBTD IS SO HIGH.
08/23/57 PERF'D PT LOOKOUT FR4,330'-82' & 4,410'-20' (2 JSPF). WATER FRAC'D THE PT LOOKOUT W/60,000 GALS WTR & 60,000# 20/40 MESH SD. FLUSHED W/11,150 GALS WTR. BD @ 1,800 PSIG. ATP 1,500 PSIG. AIR 58.5 BPM. RIH W/2ND TEMPORARY BRIDGE PLUG TO 4,275'. PLUG FAILED TO SET & FELL TO BTM. RIH W/2ND TEMPORARY BRIDGE PLUG & SET @ 4,275'. PLUG HELD OK. PERF'D PC FR2,018'-70' (2 JSPF). WATER FRAC'D THE PC W/37,800 GALS WTR & 40,000# 10/20 MESH SD. FLUSHED W/8,820 GALS WTR. BD @ 1,800 PSIG. ATP 1,500 PSIG. AIR 57.7 BPM.
08/24/57 DO TEMPORARY BP @ 4,275'. CO TO PBTD (4,430').
08/28/57 TIH W/133 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, BAKER "EGJ" PKR & 5 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG. LANDED EOT @ 4,383'. (SS) 96 JTS 1-1/4" GRADE "B" LINE PIPE. LANDED EOT 2,080'.



RETRIEVABLE PACKER SYSTEMS



Model "S"
Unloading Sub



Model "G"
Retrievable
Casing Packer

MODEL "G"™ RETRIEVABLE CASING PACKER

Product No. 420-03

The Baker Model "G" is a compact, economical set-down packer that can be used by itself for production applications, or with a companion unloader and hold down it can be used for well stimulation, testing and other pressuring operations and then left in the well as a production packer.

FEATURES/BENEFITS

- Rugged rocker-type slips and one-piece packing element.
- Full-opening bore through the packer.
- Economical to buy and maintain.
- Easy to set and release.
- Safety joint for emergency disconnection.
- Can be run upside down as a tension packer (without the emergency release feature).
- System functions above 250°F. (120°C) with an alternate packing element system.
- Short and compact for ease of storage, shipping and handling.

TO SET THE PACKER: Run the packer to a position about one foot below the setting depth, then pick up to the setting point. Rotate the tubing to the right 1/4 turn at the tool. Apply set-down weight to set and pack-off the tool.

TO RELEASE THE PACKER: Simply pick up the tubing to release. If the packer is to be moved downhole and reset, rotate the tubing to the left 1/4 turn at the tool after release.

MODEL "C-1"™ SINGLE-GRIP INVERTIBLE PACKER

Product No. 739-30

The Model "C-1", Single-Grip Invertible Packer, is designed for use either as a conventional tension packer or, when run upside down, as a set-down packer for testing, pressuring or production.

FEATURES/BENEFITS

- Easy to set and release.
- Emergency releases are provided for both tension and set-down operations.
- A shear-type bottom sub is available for use with the tension packer, in sizes 2 1/2 and 4 1/2

TO SET AS A TENSION PACKER: Run the packer to the setting depth, making sure the last movement of the tubing string is down in order to position the J-pin in the top of the J-slot before trying to set the packer. Rotate the tubing 1/4 turn to the left at the tool and pick up the tubing string. About 1,500 lb (0,68t) of tension is needed to set and pack-off the tool.

TO RELEASE AS A TENSION PACKER: Lower the tubing at least one foot more than is necessary to remove the applied tension to move the J-pin to the top of the J-slot. Rotate 1/4 turn to the right at the tool.

TO SET AS A SET-DOWN PACKER: Run the packer about one foot below setting depth. Raise the tubing one foot to position the J-pin. Rotate the string to the right 1/4 turn at the tool and set-down on the tubing string. About 1,500 lb (0,68t) is required to set and pack-off the tool.

TO RELEASE AS A SET-DOWN PACKER: Simply pick up the tubing to release the packer. If the packer is to be moved downhole and reset, rotate the tubing 1/4 turn to the left at the tool.

TO RELEASE PACKER IN EMERGENCY: Apply tension and rotate to the right at least seven turns. The bottom or top sub will unscrew from the body allowing the tubing to be pulled.

MODEL "S"™ UNLOADING SUB

Product No. 671-11

The Model "S" Unloading Sub provides a means of equalizing tubing and annulus pressures. It is designed for use above a set-down packer and is a simple but effective device that uses a shear screw arrangement to hold the sub in either the open or closed position. Set-down weight is needed to close the unloader or, if it is run closed, upstrain is required to open it.

ORDERING EXAMPLE:

PRODUCT NO. 420-03

SIZE: 4 1/2" (5-1/2" OD 15.5-20 lb/ft casing)
MODEL "G" RETRIEVABLE CASING PACKER w/2-3/8"
OD EU 8 RD Box x Pin, for J-55, 4.7 lb/ft tubing

PRODUCT NO. 739-30

SIZE: 3 1/2" (3-1/2" OD 7.7-9.3 lb/ft tubing)
MODEL "C-1" SINGLE-GRIP INVERTIBLE PACKER
w/1.900" OD EU 10 RD Box x Pin, for J-55, 2.9 lb/ft tubing

PRODUCT NO. 671-11

SIZE: 2-7/8" MODEL "S" UNLOADING SUB
w/2-7/8" OD EU 8 RD Box x Pin, J-55, 6.5 lb/ft tubing

MODEL "G" RETRIEVABLE CASING PACKER, PROD. NO. 420-03 SPECIFICATION GUIDE

Casing				Packer			
OD	In.	Lb/M	ID Range in Which Packer May Be Run		Nom ID	Size	Thread Specifications ⁽¹⁾ Box Up & Pin Down
			Min	Max			
4-1/2	114.30	9.5-13.5	3.910	4.090	3.771	43A	2-3/8 OD EU 8 RD 60.33
5	127.00	15-19	4.250	4.408	4.125	43B	
		11.5-15	4.408	4.560	4.250	43C	
		26	4.625	4.776	4.500	45A2	
5-1/2	139.70	20-23	4.776	4.950	4.641	45A4	2-3/8 OD EU 8 RD 60.33
		13-15.5	4.950	5.100	4.781	45B	
		22.5	5.191	5.390	5.062	45C	
		28	5.391	5.580	5.156	45D	
6	152.40	15-18	5.580	5.791	5.400	45E2	2-7/8 OD EU 8 RD 73.03
		34	5.791	5.991	5.600	45E4	
		20-22	5.991	6.191	5.800	47A2	
		24	6.191	6.391	6.000	47A4	
6-5/8	168.28	17-20	6.391	6.591	6.200	47A4	2-7/8 OD EU 8 RD 73.03
		38	6.591	6.791	6.400	47B2	
		32-35	6.791	6.991	6.600	47C2	
		20-26	6.991	7.191	6.800	47C4	
7	177.80	20-26	7.191	7.391	7.000	47D2	2-7/8 OD EU 8 RD 73.03
		17-20	7.391	7.591	7.200	47D4	
		33.7-39	7.591	7.791	7.400	49A2	
		24-29.7	7.791	7.991	7.600	49A4	
7-5/8	193.68	20-24	7.991	8.191	7.800	49B	2-7/8 OD EU 8 RD 73.03
		40-48	8.191	8.391	7.991	49C2	
		32-40	8.391	8.591	8.191	49C4	
		20-28	8.591	8.791	8.391	49D2	
8-5/8	219.08	20-28	8.791	8.991	8.600	49D4	2-7/8 OD EU 8 RD 73.03
		40-48	8.991	9.191	8.791	49E2	
		32-40	9.191	9.391	8.991	49E4	
		20-28	9.391	9.591	9.191	49F2	

MODEL "G" RETRIEVABLE CASING PACKER, PROD. NO. 420-03 SPECIFICATION GUIDE (CONT'D)

Casing				Packer			
OD	In.	Lb/M	ID Range in Which Packer May Be Run		Nom ID	Size	Standard Thread Specifications ⁽¹⁾ Box Up & Pin Down
			Min	Max			
9-5/8	244.48	47-53.5	8.300	8.581	8.126	51A2	4-1/2 OD 8 RD LG CSG BOX x 114.30 SHT CSG PIN
		40-47	8.581	8.835	8.437	51A4	
		29.3-36	8.835	9.083	8.583	51B	
		32.75-55.5	9.083	9.335	8.835	53A	
10-3/4	273.05	32.75-55.5	9.335	9.583	9.083	53A	4-1/2 OD 8 RD LG CSG BOX x 114.30 SHT CSG PIN
		11-3/4	9.583	9.835	9.335	53B	
		39-60	9.835	10.083	9.583	55A	
		43-53	10.083	10.335	9.835	55B	
12-3/4	323.85	43-53	10.335	10.583	10.083	55A	4-1/2 OD 8 RD LG CSG BOX x 114.30 SHT CSG PIN
		13-3/8	10.583	10.835	10.335	55B	
		48-72	10.835	11.083	10.583	55B	
		53-73	11.083	11.335	10.835	55B	

⁽¹⁾ When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: For 5-1/2" OD 20 Lb/M casing use packer size 45A4. Under certain circumstances the other packer size may be run, such as when running-in mixed casing strings.

⁽²⁾ Thread shown below are "standard" for the respective packer size. Other threads are available upon request. Please specify threads when ordering.

Repair Kits, including such items as packing elements, seal rings, etc. are available for redressing Baker retrievable packers. Contact your Baker Representative. Use only Baker repair kits.

MODEL "C-1" SINGLE-GRIP INVERTIBLE PACKER, PROD. NO. 739-30 SPECIFICATION GUIDE

Tubing/Casing				Packer			
OD	In.	Weight	ID Range in Which Packer May Be Run		Nom ID	Size	Standard Thread Specifications ⁽¹⁾ Box Up & Pin Down
			Min	Max			
2-3/8	60.33	4.8-5.3	1.846	1.995	.62	23	1.315 OD NU 10 RD 33.40
2-7/8	73.03	6.4-6.5	2.347	2.441	1.00	28A	1.315 OD EU 10 RD 33.40
3-1/2	88.90	7.7-9.3	2.923	3.088	1.53	35B	1.900 OD EU 10 RD 48.26
4	101.60	9.5-11.6	3.428	3.548	1.97	41A	2-3/8 OD EU 8 RD 60.33
4-1/2	114.30	12.6-15.1 ⁽¹⁾	3.937	3.958	50.04	41B	

⁽¹⁾ Plain End: 14.69 lb

⁽²⁾ Plain End: 12.24 — 14.98 lb

⁽³⁾ Threads shown below are "standard" for the respective packer size. Other threads are available upon request. Please specify threads when ordering.

Repair Kits including such items as packing element, seal rings, etc. are available for redressing Baker retrievable packers. Contact your Baker Representative. Use only Baker repair parts.

RETRIEVABLE PACKER SYSTEMS



