

Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
May 27, 2004

WELL API NO. 30-015-35510
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name South Culebra Bluff 23
8. Well Number 017
9. OGRID Number 227588
10. Pool name or Wildcat Loving, Brushy Canyon East

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well. Oil Well ☐ Gas Well ☐ Other Water Injection

2. Name of Operator  
Range Operating New Mexico, Inc.

3. Address of Operator  
100 Throckmorton St., Ste. 1200, Fort Worth, TX 76102

4. Well Location  
Unit Letter K : 1883 feet from the North line and 1500 feet from the West line  
Section 23 Township 23S Range 28E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3001.5' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☒ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions. Attach wellbore diagram of proposed completion or recompletion.

- 8-01-07 - Spud well @ 0730 AM 8-1-07 and drill to 348'. Hole 12.25", Ran 8 jts, 345', 24#, J-55, New LTC, 8.675" csg. Cmt'd same to w/350 sx Class + 2% CaCl<sub>2</sub>. Tagged TOC at 30'.
- 8-02-07 - Test csg 1000 psi for 30 mins, OK. WOC 18.5 hrs. Drlg. 7 7/8" hole.
- 8-09-07 - Reached TD 8-09-07 @ 12:30 pm.
- 8-10-07 - Ran 150 jts, 6,341', 15.5#, J-55, new LTC, 5.5" csg. Set csg @ 6341' Cmt'd w/350 sx 35-65-6C+5%Salt+3/10%FL-52S+4# LCM (LEAD) & 100 sx. 15-61-11-C + 6/10%FL-25 + 6/10% FL-52A + 5/10%BA-1 (TAIL).
- 8-11-07 - Tested casing to 3000 psig for 30 mins, OK. Waited on cement 24 hrs.
- 8-20-07 - MIRU Test BOP Blind Rams to 1000 psig for 5 mins, OK. TIH. Test BOP Pipe Rams to 1000 psig. Tagged PBTD at 6231'. Circulate hole clean. Test casing to 1000 psi for 30 mins, OK.
- 8-21-07 - POOH. Attempting to correlate GR-CCL Log. After correlation, PBTD was confirmed at 6181'. TIH and drill out to 6255'. Circulate clean and POOH. Perforate 6192'-6203', 6181'-6188', 6150'-6165', and 6088'-6132' (Lower Brushy Canyon) w/4 JSPF, 90 DEG phasing, 0.35" EHD, 308 holes.
- 8-22-07 - Acidized perms with 3,850 Gallons 15% NEFE acid. POOH.
- 8-23-07 - RIH w/5-1/2" x 2-3/8" Nickel Coated Arrowset I-X pkr, 1.41" ID profile nipple w/on-off tool, Fiber Line Adaptor and 197 jts 2-3/8", 4.7#, J-55, 8R, EUE Fiber Lined tubing to 6021.04'. Set packer. Test casing to 500 psig, OK. Open by-pass & circulate packer fluid. Re-set packer. ND BOP, NU WH. Tested casing to 500 psig for 30 mins, OK. RDMO.
- 8-24-07 - Topped off annulus with 50 sx cement to surface

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Bill Frey for LCS TITLE Sr. Engineering Tech DATE 8/29/07

Type or print name Linda C. Stiles E-mail address: lstiles@rangeresources.com Telephone No. (817) 869-4208  
For State Use Only

FOR RECORDS ONLY

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE AUG 31 2007  
Conditions of Approval (if any): \_\_\_\_\_

AUG 30 2007  
OCD-ARTESIA

**Well Name: SCB 23-17**

Field: Loving

County Eddy

State: New Mexico

08/22/07

**SCB 23-17****AFE # 06-04-13-0435****Eddy NM****Day 3**

**PURPOSE OF WK: COMPLETION.** OPEN WELL / O PSI / FINISH TIH W/ TOOLS & SET RBP @ 6246 / PK @ 6244 / MIRU PETROPLEX ACID EQU / TST LINES TO 4000# / OK / ON TBG TST TBG PK & RBP TO 4000# / OK / UNSET PK & POH TO 6175 / OPEN BY-PASS / BREAK CIRC / SPOTTED 900 GAL 15% NEFE ACID TO PK / CLOSED BY-PASS EST INJ RATE @ 1/2 BPM @ 2300# / ACID ON FORM PSI 1800# / INCREASED RATE TO 5 BPM / W/ 21 BBL OF FLUSH PMP BACK SIDE COMMUTATED / SD / MOVED PK TO 6140 & RESET / ON TBG PSI TO 200# / BACK SIDE COMMUTATED / SD & MOVED PK TO 6022 / ON TBG STARTED ACID @ 5 BPM 1350 PSI / PMP 2950 GAL 15% NEFE / ACID ON FORMATION PSI 1250# @ 5 BPM / INCREASED RATE TO 7 BPM @ 2350 PSI / STARTED FLUSH @ 7 BPM 2500# & FLUSHED W/ 43 BBL PROD H2O. FINAL PMP PSI 2400# @ 7 BPM / ISIP 400# / 5 MIN 298# / 10 MIN 265# / 15 MIN 234# CWI / RDMO ACID EQU OPEN WELL TO PIT FLOWED BACK 5 BBL / WELL DEAD / TOTAL LAW TO RECOVER 179 BBL. UN SET PK / TIH RET RBP / POOH LD WS / LD TOOLS / TIH W/ 10 STDS KILL STRING / CWI SWIFN / WO INJ TBG.

**Daily Cost \$16,333****Cum Cmpl Cost \$0****Cum Well Cost \$53,620**

08/23/07

**SCB 23-17****AFE # 06-04-13-0435****Eddy NM****Day 4**

**PURPOSE OF WK: COMPLETION.** OPEN WELL / O PSI / TOH & LD KILL STRING / UNLOAD & TALLY INJ TBG / CHANGE OUT PIPE RAMS PU 2 3/8'S X 5 1/2 ARROW SET 1-X NICHOL PLATED PLASTIC COATED PK W/ WL ENTRY GUIDE ON BTM / O & O TOOL & 1.43 ID "F" PROFILE NIPPLE ON TOP / RIH ON 195 JTS OF 2 3/8'S 4.7# J-55 8RD EUE FIBER LINE TBG & SET @ 6021 / MIRU KILL TRK / PSI CSG & PK TO 500# / OK / OPEN BY-PASS & CIRC HOLE W/ 150 BBL PK FLUID / CLOSE BY-PASS / ND BOP / NUWH / PSI TST TO 500# FOR 30 MIN / OK / RDMO WO UNIT.

**TBG DETAIL:**

KB	17.5
2 3/8'S FIBER LINE TBG ADAPTER	.35
195 JTS 2 3/8'S 4.7# J-55 8RD FIBER LINE TBG	5993.36
2 3/8'S FIBER LINE ADAPTER	.70
O&O TOOL W/ 1.43 "F" PRO-FILE NIPPLE	1.48
2 3/8'S X 5 1/2 ARROW SET 1-X NICHOL PLATED PK	7.25
WL ENTRY GUIDE	.40
END OF TBG	6021.04
PK ELEMENT	6017.00

**Daily Cost \$19,889****Cum Cmpl Cost \$0****Cum Well Cost \$73,509****FINAL REPORT**

**Well Name: SCB 23-17**

Field: Loving

County Eddy

State: New Mexico

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08/20/07

**SCB 23-17**

**AFE # 06-04-13-0435**

**Eddy NM**

**Day 1**

**PURPOSE OF WK: COMPLETION.** MIRU I&J WS UNIT #4 / NU BOP / TALLIED TUB / RU GRACO REV RIG / TST BOP BLIND RAMS 1000# / 5 MIN / OK / PU 4 3/4 RR BIT BS 6 3 1/4 DC'S / XO SUB / TIH W/ 1 JT 2 7/8'S TBG / TST BOP PIPE RAMS 1000# 5 MIN / OK / FINISHED TIH PICKING UP TBG / TAGGED PBTD @ 6231 RU & CIRC HOLE CLEAN W/ PROD H2O / CLOSED PIPE RAMS & TST CSG TO 1000# / 30 MIN OK / TOH STANDING UP WS / LD DC'S & BIT / CWI SWIFN WO WL TRK.

**Daily Cost \$12,508**

**Cum Cmpl Cost \$0**

**Cum Well Cost \$12,508**

08/21/07

**SCB 23-17**

**AFE # 06-04-13-0435**

**Eddy NM**

**Day 2**

**PURPOSE OF WK: COMPLETION.** MIRU ENERTECH WL TRK / RU & RIH W/ GR CCL TOOL / TAG UP @ 6223 LOGGED BACK TO 4000FT / CORRELATED W/ BAKER ATLAS OH LOG DATED 8/9/07 / AFTER CORRELATION / TD WAS 6181 / POH LD GR CCL TOOLS / RD MO WL TRK / PU 4 3/4 BIT BS 6 3 1/4 DC'S TIH ON 2 7/8'S WS / RU POWER SWIVEL & DRLG 60 FT OF CMT / DRLG RUBBER PLUG & FC @ 6213 / DRLG OUT TO 6255 TBG TALLY / CIRC HOLE CLEAN / TOH / LD DC'S & BIT / MIRU ENERTECH WL TRK / PU 3 3/8'S EXP GUN LOADED 4 JSPF W 32 GR CHARGES 90DG PHASED RIH / CORRELATED W/ GR CCL LOG & PERF 6192-6203, 6194-6188, 6150-6165 / POOH / LD SPENT GUNS / ALL SHOTS FIRED / PU 3 3/8'S EXP GUN LOADED 4 JSPF 32 GR CHARGES 90DG PHASED / RIH RE-CORRELATED W GR CCL LOG & PERF 6150-6160, 6112-6132 / POOH / LD SPENT GUNS / ALL SHOTS FIRED / PU 3RD 3 3/8'S EXP GUN LOADED 4 JSPF 32 GR CHARGES 90DG PHASED / RIH & RE-CORRELATED W/ GR CCL LOG & PERF 6092-6112, 6088-6092 / POOH LD SPENT GUNS ALL SHOTS FIRED / FINAL PERFS 6088-6132 44FT - 176 HOLES , 6150-6165 15FT 60 HOLES 6181-6188 7FT 28 HOLES 6192-6203 11FT 44 HOLES / RD MO WL TRK / PU 2 7/8'S X 5 1/2 ARROW SET HD PK & TS BP / RIH ON 10 STDS OF 2 7/8'S TBG / CWI SWIFN.

**Daily Cost \$24,779**

**Cum Cmpl Cost \$0**

**Cum Well Cost \$37,287**

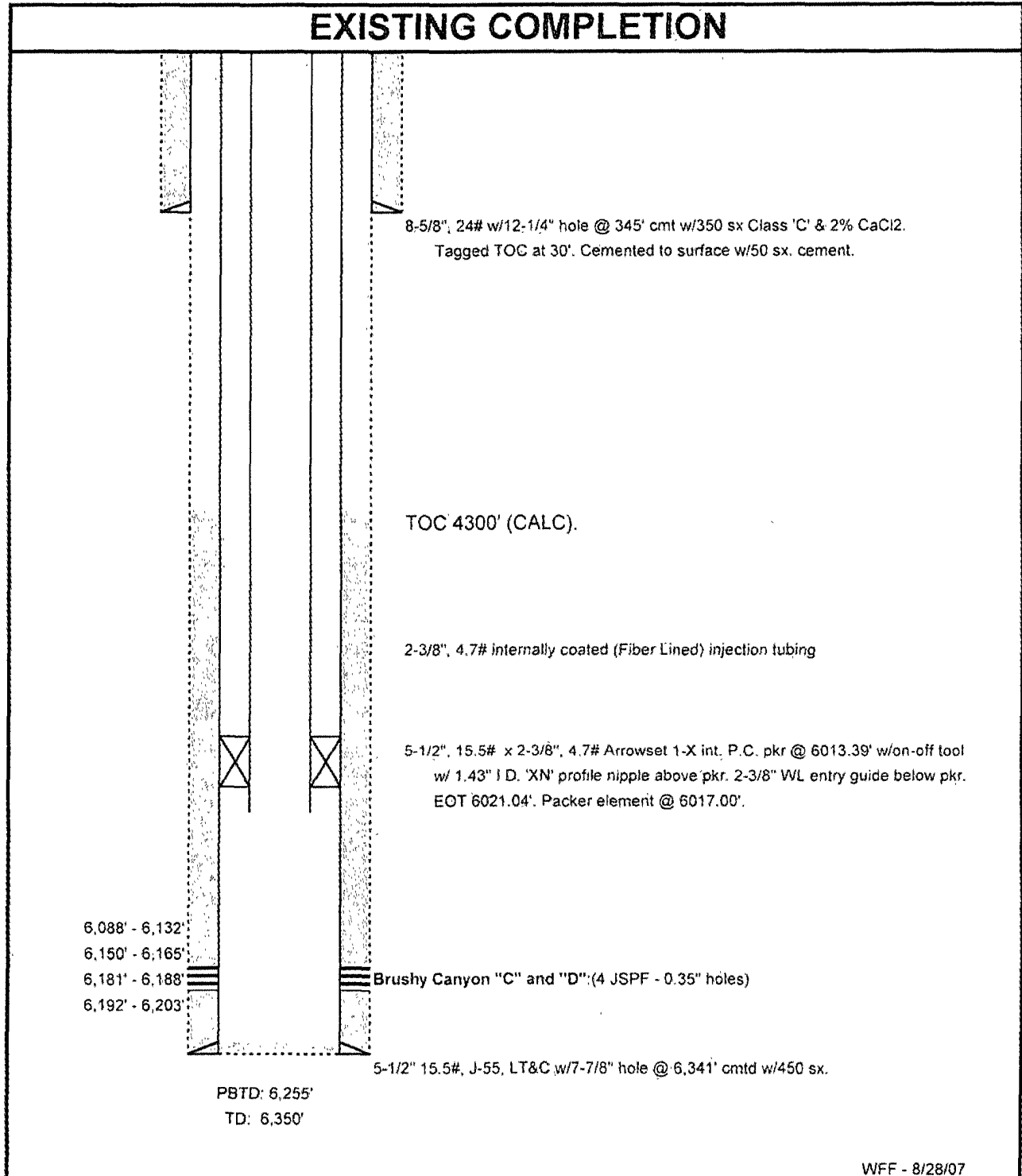
## RANGE RESOURCES

LEASE: SCB  
FIELD: Loving East  
LOCATION: Sec 23, T23S, R28E

WELL #: 23-17  
COUNTY: Eddy  
LEGAL: 1883' FNL & 1500' FWL

API#: 30-015-35510  
STATE: New Mexico  
KB: 3019' (KB 17.5')

## EXISTING COMPLETION



# Tubing Detail

## SCB 23-17 Tbg Detail :

	Length (ft)	Depth (ft)
KB	17.50	
2-3/8" SS x 2-7/8" SS X-O	0.35	17.50
195 Jts. Fiber Lined Tbg, 2-3/8", 4.7#, J-55, 8R, EUE tbg, 1.73 I.D.	5993.36	17.85
Fiber Line Adapter	0.70	6011.21
On-Off Tool w/1.43" ID 'F' Profile Nipple	1.48	6011.91
2-3/8" x 5-1/2" Arrow set 1-X Pkr, Nickle plated w/ Internal Plastic Coating	7.25	6013.39
2 3/8 WL Entry Guide	0.40	6020.64
<b>END OF TUBING</b>		6021.04
Packer Element		6017.00