

Submit 3 Copies To Appropriate District 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

Form C-103
May 27, 2004

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

WELL API NO 30-015-35514
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name South Culebra Bluff 23
8. Well Number 021
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
AUG 29 2007
OCD-ARTESIA

4. Well Location
Unit Letter 1 : 2460 feet from the South line and 1160 feet from the East line
Section 23 Township 23S Range 28E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2997 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 ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

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

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

- 7-01-07 - Spud well @ 1300 PM 7-1-07 and drill to 347'. Hole 12 25", Ran 8 jts, 304', 24#, J-55, New LTC, 8.675" csg. Cmt'd same to surf w/220 sx Class + 2% CaCl₂. Circulated 17 sx. to surface
7-02-07 - Test csg 1000 psi - ok. WOC 19.5 hrs. Drlg. 7 7/8" hole.
7-15-07 - Reached TD 7-15-07 @ 2:30 pm.
7-16-07 - Ran 147 jts, 6,327', 15.5#, J-55, new LTC, 5.5" csg. Set csg @ 6327' Cmt'd w/805 sx. 15- 61-11-C+6/10% FL-25 6/10% fl-52a+5/10%BA-1 (LEAD) & cmt'd. 2nd stage through DV Tool @ 3453' w/1000 sx. 35-65-6C+5%Salt+3/10%FL-52S+LCM (LEAD) & 100 sx. Class C Neat (TAIL). Tagged TOC at 30'. Tested casing to 3000 psig. Waited on cement 24 hrs.
8-06-07 - MIRU. Test BOP Blind Rams to 1000 psig for 5 mins, OK. TIH. Test BOP Pipe Rams to 1000 psig. Drill out DV Tool @ 3458'. Drill out cement to 6238'. Circulate hole clean. Test casing to 1000 psi for 30 mins, OK.
8-07-07 - POOH. Attempting to correlate GR-CCL Log.
8-08-07 - RIH. DO cement to 6268'.
8-09-07 - Perforate 6140'-79' and 6210'-6218' (Lower Brushy Canyon) w/4 JSPF, 90 DEG phasing, 0.35" EHD, 188 holes. Acidized perfs with 2,350 Gallons 15% NEFF acid. POOH
8-10-07 - RIH w/5-1/2" x 2-3/8" Nickel Coated Arrowset 1-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 6087.97'. Set packer. Test casing to 500 psig, OK. ND BOP, NU WH. Open by-pass & circulate packer fluid. Re-set packer. Tested casing to 500 psig for 30 mins, OK. RDMO.
8-24-07 - Topped off annulus with 23 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 NMOCD 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
For State Use Only

E-mail address:

Telephone No.

FOR RECORDS ONLY

APPROVED BY: _____ TITLE _____

DATE AUG 29 2007

Conditions of Approval (if any):

08/06/07

SCB 23-21

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 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 / TAGED DV TOOL @ 3458 / RU POWER SWIVEL & DRLG OUT DV TOOL, CIRC HOLE CLEAN / RD POWER SWIVEL / TIH TAGGED UP @ 6220 RU POWER SWIVEL & DRLG OUT CMT TO 6238 / CIRC HOLE CLEAN / CLOSED IN BOP & TST CSG TO 1000# 30 MIN / OK / RD POWER SWIVEL / TOH W 10 STDS TBG / CWI SDFN

08/07/07

SCB 23-21

Eddy NM

Day 2

Purpose of Wk: Completion. OPENED WELL / TOH STANDING UP WS / LD DC'S / MI RU ENERTECH WL TRK / RIH W/ GR/CCL TOOL / DV TOOL @ 3455 / TAGGED BTM @ 6236 / ATT TO CORL W/ BAKER-ATLAS OPEN HOLE LOG DATED 7/14/07 / COMPUTER PROBLEMS / WO TEC TO REPAIR COMP. STILL COULD NOT CORL W/ OPEN HOLE LOG / PULLED GR CCL LOG TD BACK TO 4000FT, ALL MEASUREMENTS OFF 22FT, E-MAILED COPY TO ENG. CWI / SWIFN / WOO.

08/08/07

SCB 23-21

Eddy NM

Day 3

Purpose of wk: Completion. OPEN WELL / PU 4 3/4 RR BIT 6 3 1/4 DC'S / TIH ON 2 7/8'S WS / TAGED UP @ 6238 / RU POWER SWEVIAL / DRLG OUT TO 6268 / CIRC HOLE CLEAN / RD SWEVIAL / TOH STANDING UP / LD DC'S CWI SDFN WO WL TRK

08/09/07

SCB 23-21

Eddy NM

Day 4

Purpose of Wk: Completion. OPEN WELL / MIRU ENERTECH WL TRK / PU GR CCL TOOL / RIH TAGGED UP @ 6270 / LOGGED BACK TO 4000FT / CORLATED W/ BAKER-ATLAS COMP-NET GR LOG DATED 7/14/07 / POOH / PU 3 3/8'S EXP GUN / TIH CORL W/ GR CCL LOG & PERF 6210-6218 W/ 4 JSPF 90dg PHASED .35 gr SHOTS TOTAL 32 SHOTS / POOH / ALL SHOTS FIRED / PU 2nd 3 3/8'S EXP GUN / TIH CORL W/ GR CCL LOG & PERF 6140 TO 6179 W/ 4 JSPF 90dg PHASED .35 gr CHARGES / TOTAL 156 HOLES / POOH / ALL SHOTS FIRED / RDMO ENERTECH. PU 5 1/2 X 2 7/8 ARROW SET 1-X PK & 5 1/2 MODEL G RBP / TIH TAGGED BTM / PU & SET RBP @ 6252 / PU & SET PK @ 6249 / MIRU PETROPLEX ACIDIZER / PSI TST LINES TO 4000# / OK / ON TBG PSI TST PK TBG & RBP TO 4000# / OK / RELEASED PSI / PULLED PK UP HOLE TO 6197 & RESET PK / OPENED BY-PASS & PMP 500gal 15% NEFE HCL TO BY PASS / CLOSED BY-PASS & PSI TBG TO 1041 PSI FORMATION TAKING FLUID @ 2 BPM / ACID ON FORMATION PSI DROPPED TO 800# / INCREASED TO 6 BPM @ 3000 # / PMP 6 BPM 2100# / W/ 33 BBL OF 42 BBLs OF FLUSH PMP / PSI 1800# 6 BPM / BACK SIDE COMMUCATED SD / ISIP VAC / UNSET PK / PULLED UP HOLE TO 6100 & RESET / OPENED BY-PASS & PMP ACID TO BY-PASS / CLOSED BY-PASS & PSI TBG / EST INJ RATE @ 1099 PSI 1.2 BPM / INCREASED RATE TO 6 BPM @ 2100# / ACID ON FORMATION @ 6 BPM 1900# / PMP TOTAL 1850 GAL 15% NEFE HCL & FLUSHED W/ 42 BBL PROD H2O / FINAL PMP PSI 1800# @ 6 BPM / ISIP 230# / 5 MIN 144# 10 MIN 110 / 15 MIN VAC / TL & AWTR 129 BBL / RDMO ACID PMP / UNSET PK / TOH & LD WS & TOOLS / CWI SWIFN.

AUG 29 2007

OCD-ARTESIA

08/10/07

SCB 23-21

Eddy NM

Day 5

Purpose of Wk: Completion. UNLOADED & TALLIED TBG / OPEN WELL NO PSI / CHANGE PIPE RAMS IN BOP / PU 5 1/2 X 2 3/8 NICKEL COATED ARROWSET 1-X PK / 1.41 ID PRO FILE NIPPLE W/ O&O TOOL / FIBER LINE ADAPTER / TIH ON 197 JTS 2 3/8'S 4.7# J-55 8rd EUE FIBER LINED TBG TO 6087.97 / SET PK / MI RU KILL TRK / PSI TST CSG TBG & PK TO 500# / OK / ND BOP / NU WH / OPENED BY PASS ON PK & CIRC HOLE W/ PK FLUID / RESET PK / FLANGED UP WH & TST CSG & PK TO 500# FOR 30 MIN / OK / RELEASED PSI / CWI / RD MO WO UNIT / WO INJ LINE.

TBG DETAIL:

KB	18.00
2 3/8'S X 2 7/8 SS XO	.35
197 JTS OF 2 3/8'S 4.7# J-55 8rd EUE TBG	6059.64
FIBER LINE ADAPTER	.70
O & O TOOL W/ 1.41 ID "F" PROFILE NIPPLE	1.68
2 & 3/8'S X 5 1/2 ARROW SET 1-X NICKLE PL PK	7.35
2 3/8'S WL ENTRY GUIDE	.35
END OF TBG	6087.97
PK ELEMENT	6082.15

Well on Injection

FINAL REPORT



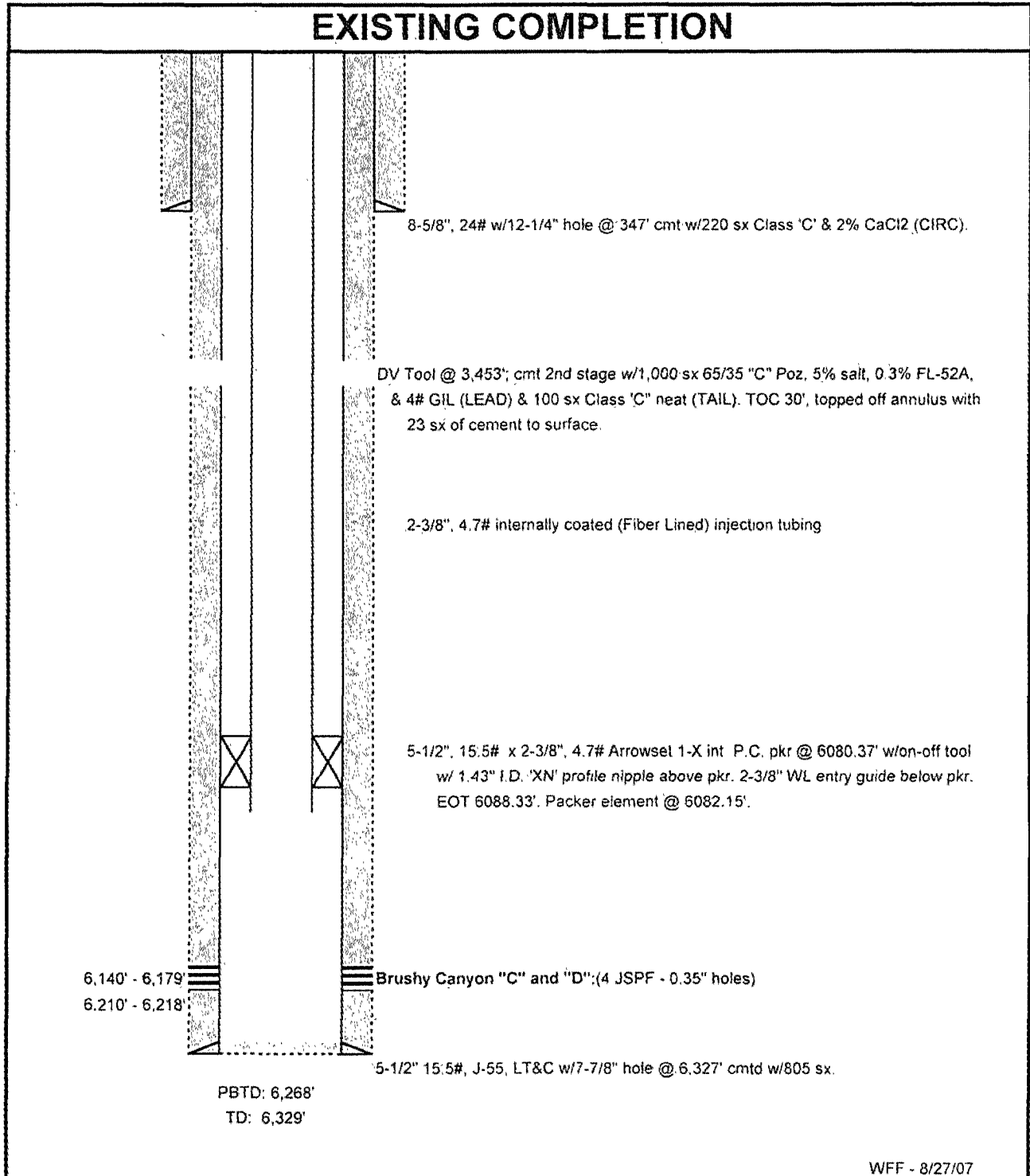
RANGE RESOURCES

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

WELL #: 23-21
COUNTY: Eddy
LEGAL: 2460' FSL & 1160' FEL

API#: 30-015-35514
STATE: New Mexico
KB: 3015' (KB 18')

EXISTING COMPLETION



Tubing Detail

SCB 23-21 Tbg Detail :

	Length (ft)	Depth (ft)
KB	18.00	
2-3/8" SS x 2-7/8" SS X-O	0.35	18.00
197 Jts. Fiber Lined Tbg, 2-3/8", 4.7#, J-55, 8R, EUE tbg, 1.73 I.D.	6059.64	18.35
Fiber Line Adapter	0.70	6077.99
On-Off Tool w/1.41" ID 'F' Profile Nipple	1.68	6078.69
2-3/8" x 5-1/2" Arrow set 1-X Pkr, Nickle plated w/ Internal Plastic Coating	7.35	6080.37
2 3/8 WL Entry Guide	0.35	6087.72
2 3/8 WL Entry Guide	0.26	6088.07
END OF TUBING		6088.33
Packer Element		6082.15