

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

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

Form C-103  
Revised March 25, 1999

WELL API NO.  
30-025-34808

5. Indicate Type of Lease  
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Shirley Boyd

8. Well No. 1

9. Pool name or Wildcat  
South McCormack Silurian

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 ☐

2. Name of Operator

Cortez Operating Company

3. Address of Operator

PO Box 4011, Midland, Texas 70704

4. Well Location

Unit Letter D : 400 feet from the North line and 450 feet from the West line

Section 26 Township 22S Range 37E NMPM Lea County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

3351' DF, 3335' GL, 3352' KB

11. 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 COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. 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.

See attached



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

SIGNATURE RL Robertson TITLE West Texas Production Supt. DATE 04/07/03

Type or print name R. L. Robertson

Telephone No. 915/664-9416

(This space for State use)

APPROVED BY Larry W. Wink TITLE OG FIELD REPRESENTATIVE II / STAFF MANAGER DATE APR 11 2003

Conditions of approval, if any:

# **Cortez Operating Company**

**Shirley Boyd #1  
Lea County, NM**

## **Remedial Procedure**

**Objective:** Repair casing leak in 8-5/8" casing to pass NMOCD bradenhead pressure test.

### **Current Wellbore:**

TD/PBTD: 7400' / 7310'

RKB: 17'

Surf Csg: Surf – 440' 13-3/8" 48# H-40 440 sx (circ'd)

Int Csg : Surf – 3450' 8-5/8 32# J-55 600 Sx 35 :65 Poz & 200 Cl C Neat  
(1408 ft<sup>3</sup> total cmt volume)

Prod Csg : Surf – 7400' 5-1/2" 15.5# J-55 LTC 400 sx Cl C (circ'd to DV tool)  
DV @ 5610' w/ 350 sx 35 :65 Poz  
(TOC 1300' CBL)

Min ID:	4.950"	Min Burst:	4810 psi
Min Drift:	4.825"	Min Collapse:	4040 psi
Capacity:	0.0238 bbl/ft	Ann Cap w/2-7/8":	0.0158 bbl/ft

Prod Tbg: 225 jts 2-7/8" 6.5# J-55 w/ TAC 7110'.

ID:	2.441"	Burst:	7,260 psi
Drift:	2.347"	Collapse:	7,680 psi
Capacity:	.0058 bbl/ft	Yield:	72,580 lb

Rods:

Tubing head: 11" 3M x 7-1/16" 3 M (J&W wellhead)

Perfs: 7140-60, 7164-75, 7177-81, 7183-89' (Fusselman)

**PROCEDURE**

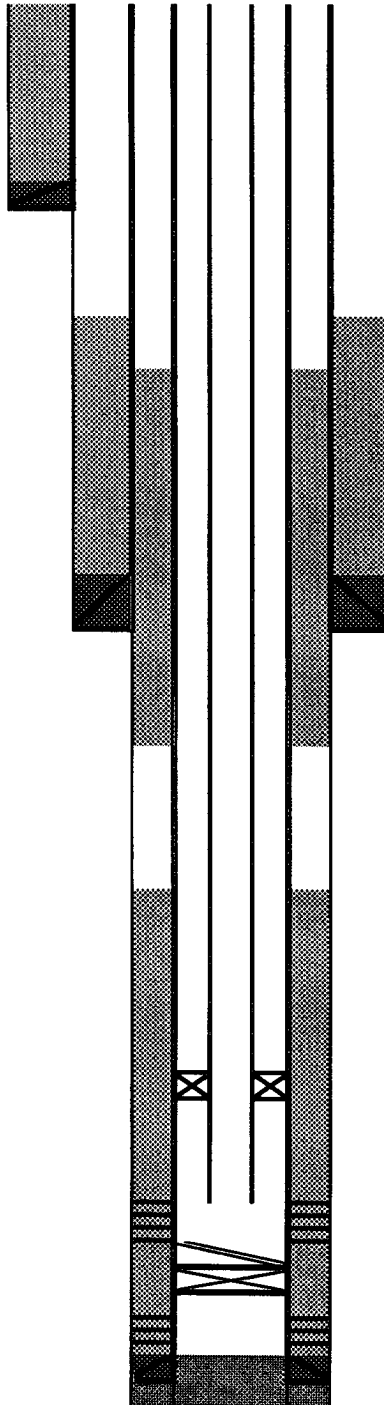
1. MIRU workover unit. ND tree. NU BOP's. POH w/ rods & tubing.
2. TIH & set RBP w/ ball catcher @ 5000' w/ 2 sx sd. Load well w/ 2% KCL wtr.
3. RU wireline unit. Run noise/temp log f/3450' to surface. Flow casing strings while running logs. Report results to Plano ASAP.
4. Open both casing valves (i.e. both strings). Perforate 2' w/ 4 spf 90 deg phasing per Plano (probably +/- 3000'). Observe any changes in pressure/flow/etc on casing strings. RU Pump truck. Close blind rams & attempt to circulate down 5-1/2" & up 8-5/8" x 13-3/8" or 5-1/2" x 8-5/8" annulus. Report results to Plano ASAP.

*Note: May require perforating uphole multiple times to establish circulation.*

5. When circulation is established, circulate 8-5/8" x 13-3/8" annulus clean. Close bradenhead valve & circulate 5-1/2" x 8-5/8" annulus clean. With wireline truck on location, wireline set CR 100' above top perforation.
6. TIH w/ CR stinger on 2-7/8" tbg.
7. Notify NMOCD of intent to cement.
8. MIRU BJ w/ approximately 1000 sx Cl C neat cement. Mix & pump cement until cement circulation is established on both annuli. Close csg valves and sqz into formation. Collect good surface samples of slurry.
9. Sting out of CR & reverse circulate tbg clean. POH. Run kill string & WOC 24 hrs.
10. TIH w/ 4-3/4" bit & 3-1/2" DC's on 2-7/8" tbg. Tag cement & circ samples to surface. Complete cleanout after cement set. CO to RBP.
11. Pressure test csg and sqz to 600 psi. If OK, POH. TIH w/ pkr set above perfs. Swab fluid down to SN on top of pkr. Differential test. Monitor any feed in. POH w/ pkr.
12. TIH w/ RBP retrieving tool. Wash sand & POH w/ same.
13. Re-run completion assy and return well to production.
14. RD RR.

**Cortez Operating Company  
Shirley Boyd # 1  
South McCormack Silurian Field, Lea County, New Mexico  
Wellbore Schematic**

**API # 30.025.34808**



GL-3,335', KB-3,352'

Location: Unit D, 400' FNL, & 450' FWL, Sec. 26, T 22 S, R 37 E

**drilled 17 1/2" hole**

13 3/8" 48# H-40 csg @ 440' w/ 440 sxs. Cis C Circ.

**drilled 11" hole**

8 5/8" 32# J-55 csg @ 3,450' w/600 sxs. 35:65 Poz/CI C & 200 sxs.  
CI C - did not circ - TOC unknown

DV Tool @ 5,610' - Pump 2 nd stage @ 350 sxs 36:65 Poz/ CLs C -  
TOC unknown

8', 6', 4', 2' X 7/8" pony rods - 115 7/8" Gr D; 155 3/4" Gr D; 12 7/8"  
Gr D - Pump 2-1/2" X 1-1/4" X 20' pump w/ 8' gas anchor

225 jts 2 7/8" 6.5# J-55 set on Baker TAC @ 7,110' - SN @ 7,112'  
MA 2-7/8" X 25' - EOT @ 7,138'

**drilled 7 7/8" hole**

Perf @ 7,140-60; 7,164-75; 7,177-81; 7,183-89 - acidize w/ 2,500  
gal 15% HCl - Acid-Frac w/ 35,000 gal 65Q foamed acid & 30,000  
gal 65Q foamed WF G40 pad & flush

Junk in the hole @ 7,176 - 7,200 - 4" perf gun

CIBP @ 7,200'

Perf 7,210 - 30 w/ 2 spf - acidize w/ 2,500 gal HCl - very small show

5 1/2" 15.5# K-55 csg @ 7,400' w/ 400 sxs. CI C (1 st stage)

TD @ 7,400'. PBD @ 7,310'.

data as found in well file as of October, 2000