

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

RECEIVED
JAN 28 1998
SANDIA

1. Type of Well
GAS

2. Name of Operator
OIL CON. DIV.
BURLINGTON DIST. 3
RESOURCES OIL & GAS COMPANY

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
900' FSL, 1605' FEL, Sec. 8, T-27-N, R-5-W, NMPM
DHC-1731

5. Lease Number
SF-079391
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
San Juan 27-5 Unit
8. Well Name & Number
San Juan 27-5 U #70M
9. API Well No.
30-039-25725
10. Field and Pool
Blanco MV/Basin DK
11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

| Type of Submission | Type of Action |
|---|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Recompletion |
| | <input type="checkbox"/> New Construction |
| | <input type="checkbox"/> Plugging Back |
| | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair |
| | <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing |
| | <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other - CBL |

13. Describe Proposed or Completed Operations

- 10-28-97 MIRU. TIH w/gauge ring to 7878'. Ran CBL-VDL-CCL-GR @ 2500-7878', TOC on 4 1/2" csg @ 2600'. Ran CNL @ 2000-7878'. Ran CCL-GR @ 0-2000'. TOOH. RD.
- 11-20-97 MIRU. ND WH. NU BOP. TIH w/4 1/2" chemical cutter. Chemical cut 4 1/2" csg @ 2473'. TOOH w/57 jts 4 1/2" csg & chemical cutter. TIH w/4 3/4" swedge to top of lnr @ 2473'. Work swedge on lnr top. TOOH w/swedge. Blow well & CO.
- 11-21-97 Blow well & CO. Tbg stuck. TIH w/freepoint. TOOH. TIH w/chemical cutter. Chemical cut tbg @ 5365'. TOOH w/chemical cutter.
- 11-22-97 TOOH w/173 jts 2 3/8" tbg. TIH w/fishing tools. Establish circ. Circ hole clean.
- 11-23/28-97 Fishing.
- 11-29-97 Fishing. (Verbal approval to change plans from Errol Becher, BLM). TOOH. TIH w/cmt retainer, set @ 5383'. Attempt to establish circ. (Larry Pixley, BLM on location). TOOH. TIH w/190 jts 2 3/8" 4.7# J-55 EUE tbg, landed @ 5372'. ND BOP. NU WH. RD. Rig released.

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Regulatory Administrator Date 1/16/98

ACCEPTED FOR RECORD

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date JAN 23 1998

CONDITION OF APPROVAL, if any:

NMOCD

FARMINGTON DISTRICT OFFICE
BY _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137

Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other

2. NAME OF OPERATOR
BURLINGTON RESOURCES OIL & GAS COMPANY

3. ADDRESS AND TELEPHONE NO.
PO BOX 4289, Farmington, NM 87499 (505) 326-9700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 900'FSL, 1605'FEL.
At top prod. interval reported below
At total depth DHC-1731

5. LEASE DESIGNATION AND SERIAL NO.
SF-079391

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 27-5 Unit

8. FARM OR LEASE NAME, WELL NO.
San Juan 27-5 U #70M

9. API WELL NO.
30-039-25725

10. FIELD AND POOL, OR WILDCAT
Blanco MV/Basin DK

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 8, T-27-N, R-5-W

14. PERMIT NO. OIL CON. DIV. DIST. 3

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

15. DATE SPUNDED 10-13-97

16. DATE T.D. REACHED 10-20-97

17. DATE COMPL. (Ready to prod.) 11-30-97

18. ELEVATIONS (OF, RKB, RT, BR, ETC.)*
6670 GR, 6682 KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7919

21. PLUG, BACK T.D., MD & TVD cmt retainer @ 5383

22. IF MULTIPLE COMPL., HOW MANY* 2

23. INTERVALS DRILLED BY 0-7919

ROTARY TOOLS

CABLE TOOLS

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)*
5125-6013 Mesaverde

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-ILD-CDL-CNL

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 9 5/8 | 32.3# | 241 | 12 1/4 | 224 cu.ft. | |
| 7 | 20# | 3640 | 8 3/4 | 1083 cu.ft. | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|-------|----------|-------------|---------------|-------------|
| 4 1/2 | 2473 | 7918 | 630 cu.ft. | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|-------|----------------|-----------------|
| 2 3/8 | 5372 | |

31. PERFORATION RECORD (Interval, size and number)

5125, 5132, 5140, 5162, 5170, 5176, 5193, 5207, 5215, 5228, 5234, 5267, 5272, 5283, 5316, 5326, 5343, 3555, 5361, 5368, 5436, 5439, 5500, 5505, 5515, 5535, 5642, 5658, 5675, 5679, 5691, 5702, 5706, 5719, 5725, 5737, 5750, 5761, 5771, 5782, 5787, 5793, 5804, 5818, 5858.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|---|
| 5125-5535 | 2460 bbl slk wtr, 106,000# 20/40 Brady sd |
| 5642-6013 | 2355 bbl slk wtr, 100,000# 20/40 Brady sd |

Perforations cont'd on back

33. PRODUCTION

DATE FIRST PRODUCTION 11-30-97

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) SI

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N FOR TEST PERIOD | OIL-BBL | GAS-MCF | WATER-BBL | GAS-OIL RATIO |
|--------------|--------------|------------|------------------------|---------|----------------|-----------|---------------|
| 11-30-97 | | | | | 50 Pitot Gauge | | |

| FLOW, TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL-BBL | GAS-MCF | WATER-BBL | OIL GRAVITY-API (CORR.) |
|---------------------|-----------------|-------------------------|---------|---------|-----------|-------------------------|
| SI 652 | SI 690 | | | | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Regulatory Administrator

ACCEPTED FOR RECORD
DATE 1-19-98

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

NMOCD

BY [Signature]
FARMINGTON DISTRICT OFFICE
JAN 26 1998

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
|-----------|-----|--------|-----------------------------|------|-------------|------------------|
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |

38. GEOLOGIC MARKERS

| | | | | | | |
|----------------------|-------|-------|--|-----------------|-------|--|
| Ojo Alamo | 2688' | 2727' | White, cr-gr ss. | Ojo Alamo | 2688' | |
| Kirtland | 2727' | 3007' | Gry sh interbedded w/light, gry, fine-gr ss. | Kirtland | 2727' | |
| Fruitland | 3007' | 3460' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 3007' | |
| Pictured Cliffs | 3460' | 3565' | Bn-Gry, fine grn, tight ss. | Pic. Cliffs | 3460' | |
| Lewis | 3565' | 3992' | Shale w/siltstone stringers | Lewis | 3565' | |
| Huerfanto Bentonite* | 3992' | 4050' | White, waxy chalky bentonite | Huerfanto Bent. | 3992' | |
| Chacra | 4050' | 5022' | Gry fn grn silty, glauconitic sd stone w/drk gry shale | Chacra | 4050' | |
| Cliff House | 5022' | 5285' | ss. Gry, fine-grn, dense sil ss. | Cliff House | 5022' | |
| Menefee | 5285' | 5635' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 5285' | |
| Point Lookout | 5635' | 5805' | Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation | Pt. Lookout | 5635' | |
| Mancos | 5805' | 7151' | Dark gry carb sh. | Mancos | 5805' | |
| Gallup | 7151' | 7585' | Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh | Gallup | 7151' | |
| Greenhorn | 7585' | 7647' | Highly calc gry sh w/thin lmst. | Greenhorn | 7585' | |
| Graneros | 7647' | 7773' | Dk gry shale, fossil & carb w/pyrite incl. | Graneros | 7647' | |
| Dakota | 7773' | 7919' | Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & shale breaks | Dakota | 7773' | |

Perforations continued
5871, 5891, 5937, 5963, 6001,
6013

*Huerfanto Bentonite is the legal top of Mesa Verde in New Mexico (North of the Chacra line)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137

Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other

5. LEASE DESIGNATION AND SERIAL NO.
SF-079391

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 27-5 Unit

8. FARM OR LEASE NAME, WELL NO.
San Juan 27-5 U #70M

2. NAME OF OPERATOR
BURLINGTON RESOURCES OIL & GAS COMPANY

9. API WELL NO.
30-039-25725

3. ADDRESS AND TELEPHONE NO.
PO BOX 4289, Farmington, NM 87499 (505) 326-9700

10. FIELD AND POOL, OR WLD/CAT
Blanco MV/Basin DK

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)
At surface 900'FSL, 1605'FEL.

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 8, T-27-N, R-5-W

At top prod. interval reported below

At total depth DHC-1731

RECEIVED
JAN 28 1998
OIL CON. DIV.
DIST. 3

14. PERMIT NO. DATE ISSUED

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

15. DATE SPUDED 10-13-97

16. DATE T.D. REACHED 10-20-97

17. DATE COMPL. (Ready to prod.) 11-30-97

18. ELEVATIONS (DF, RKB, RT, BR, ETC.)*
6670 GR, 6682 KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7919

21. PLUG, BACK T.D., MD & TVD Cmt retainer @ 5383

22. IF MULTIPLE COMPL., HOW MANY* 2

23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
0-7919

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)*
7678-7874 Dakota

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-ILD-CDL-CNL

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 9 5/8 | 32.3# | 241 | 12 1/4 | 224 cu.ft. | |
| 7 | 20# | 3640 | 8 3/4 | 1063 cu.ft. | |

29. LINER RECORD 30. TUBING RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|-------|----------|-------------|---------------|-------------|------|----------------|-----------------|
| 4 1/2 | 2473 | 7918 | 630 cu.ft. | | | | |

31. PERFORATION RECORD (Interval, size and number)
7678, 7682, 7692, 7701, 7715, 7725, 7742, 7780, 7786, 7803, 7810, 7820, 7852, 7858, 7870, 7874

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
7678-7874 1081 bbl 20# x-link gel, 91,000# 20/40 tempred LC sd

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)
Zone temporary abandoned w/cement retainer @ 5383'

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N FOR TEST PERIOD OIL-BBL GAS-MCF WATER-BBL GAS-OIL RATIO

FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL GAS-MCF WATER-BBL OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY
To be sold

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Regulatory Administrator

ACCEPTED FOR RECORD
1/19/98

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

NMOCQ

JAN 26 1998
BY [Signature] FARMINGTON DISTRICT OFFICE

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals; and all drill-stem, tests, including depth interval tested, casing used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
|----------------------|-------|--------|--|-----------------|-------------|------------------|
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2688' | 2727' | White, cr-gr ss. | | | |
| Kirtland | 2727' | 3007' | Gry sh interbedded w/light, gry, fine-gr ss. | | | |
| Fruitland | 3007' | 3460' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Ojo Alamo | 2688' | |
| Pictured Cliffs | 3460' | 3565' | Bn-gry, fine grn, tight ss. | Kirtland | 2727' | |
| Lewis | 3565' | 3992' | Shale w/siltstone stringers | Fruitland | 3007' | |
| Huerfanto Bentonite* | 3992' | 4050' | White, waxy chalky bentonite | Pic.Cliffs | 3460' | |
| Chacra | 4050' | 5022' | Gry fn grn silty, glauconitic sd stone w/drk gry shale | Lewis | 3565' | |
| Cliff House | 5022' | 5285' | ss. Gry, fine-grn, dense sil ss. | Huerfanto Bent. | 3992' | |
| Menefee | 5285' | 5635' | Med-dark gry, fine gr ss, carb sh & coal | Chacra | 4050' | |
| Point Lookout | 5635' | 5805' | Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation | Cliff House | 5022' | |
| Mancos | 5805' | 7151' | Dark gry carb sh. | Menefee | 5285' | |
| Gallup | 7151' | 7585' | Lt-gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh | Pt. Lookout | 5635' | |
| Greenhorn | 7585' | 7647' | Highly calc gry sh w/thin lmst. | Mancos | 5805' | |
| Graneros | 7647' | 7773' | Dk gry shale, fossil & carb w/pyrite incl. | Gallup | 7151' | |
| Dakota | 7773' | 7919' | Lt to dk gry fose carb sil calc sil silty ss w/pyrite incl thin sh bands clay & shale breaks | Greenhorn | 7585' | |
| | | | | Graneros | 7647' | |
| | | | | Dakota | 7773' | |

38. GEOLOGIC MARKERS

*Huerfanto Bentonite is the legal top of Mesa Verde in New Mexico (North of the Chacra line)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on ~~WELLS~~

98 DEC -3 PM 1:11
070 FARMINGTON, NM

1. Type of Well
GAS

5. Lease Number
SF-079391
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES** OIL & GAS COMPANY

7. Unit Agreement Name

8. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505)

RECEIVED
DEC 11 1998

8. Well Name & Number
San Juan 27-5 Unit
San Juan 27-5 U #70M

4. Location of Well, Footage, Sec., T, R, M
900' FSL, 1605' FEL, Sec. 8, T-27-N, R-5-W, NMB
DHC-1731

OIL CON. DIV.
DIST. 3

9. API Well No.
30-039-25725
10. Field and Pool
Blanco MV/Basin CK
11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other - recover wellbore | |

13. Describe Proposed or Completed Operations

It is intended to fish for tubing left in the hole and complete the subject well according to the attached procedure and wellbore diagram.

(Verbal approval from Jim Lovato, BLM 12-2-98).

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (DTVPUD) Title Regulatory Administrator Date 12/2/98

(This space for Federal or State Office use)
APPROVED BY [Signature] Title Petroleum Engineer Date 12/2/98
CONDITION OF APPROVAL, if any:

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

NMOCD

BURLINGTON RESOURCES

San Juan 27-5 Unit # 70M

**900' FSL, 1605' FEL
Unit O, Section 8, T27N, R5W
Rio Arriba County, New Mexico
LAT: 36° 35' LONG: 107° 22.7'
Blanco Mesaverde / Basin Dakota**

Fishing/Completion Procedure

Directions to Location:

Take Hwy. 64 east out of Bloomfield to Gobernador school, turn right, stay straight on General American Road, proceed 9 miles through Twin Peaks. location on left approx. 1 mile past Twin Peaks.

Project Objective:

The PUD Team recommends moving back onto the subject well and attempt to recover the abandoned portion of the wellbore. The Dakota and Point Lookout portion of the wellbore was abandoned when fishing operations failed to recover stuck tubing. Attempts to recover the fish were terminated when it was determined a down hole fire occurred. A cement retainer was placed above the fish with the intention of producing the Cliffhouse. Currently the well is not producing from the Cliffhouse; failed attempts have been made to get the zone flowing.

Well History:

The well was fracture stimulated in three stages November 1997. The three stages consisted of the Dakota, Point Lookout / Lower Menefee and Cliffhouse / Upper Menefee. A completion rig was moved on to clean the wellbore and land tubing. After making a connection during cleanup operations in the Cliffhouse formation the tubing became stuck in sand. Eight days were spent attempting to recover the fish of which only five were actually spent fishing. The remaining 3 days were spent blowing the well cleaning sand. The reason for abandoning the fishing operation was because of the interpretation of a down hole fire from a down hole video. This means that there would have been an intense concentration of heat in a small area of the wellbore. This heat would cause the metal in the casing to change properties and possibly become brittle and/or change shape. Since the area of the down hole fire is in the perforated zone the damage to the casing may not be a major concern if the wellbore is recovered. The major concern would be if the wellbore were unstable and we were not able to get past the bad spot with tubing and tools (i.e. bits, packers, bridge plugs, etc.).

Brief Fishing Summary:

After the tubing became stuck, a free point was run and the tubing cut at 5365'. We washed over the fish from 5365' to a hard spot at 5404'. Tripped in the hole with an overshot and recover the 39' of tubing we washed over. Tripped in the hole with a concave mill and milled 6 hours and made 5.5' (Note: Using this penetration rate we could possibly mill the entire fish (+/- 90') in 90 hours). Ran in the hole with a video camera and viewed the fish. The interpretation was that there was a fire and 3'- 4' of 4-1/2" casing gone and/or twisted. The 2-3/8" tubing was twisted and partially gone also. The BR superintendent decided to terminate the operation at this point. The remaining fish consists of 3 joints of tubing, a bit sub and bit. Even with the down hole fire damage the chances of recovering such a simple fish is relatively high. I would like to reference a well were BR had similar problems. BR moved on the SJ 27-5 #97M in April 1998 to pluck a Model D packer. The packer plucker became stuck in the packer and the fishing operation began. They eventually recovered the packer plucker, milled the Model D packer, identified indication of a down hole fire and recovered the wellbore. The total time on this well was 23 days but they had a much more difficult situation. The point being that just because there has been a down hole fire does not mean we need to abandon the wellbore.

Deliver to location:

1. 2700' 2-3/8", 4.7#, J-55, EUE workstring / production tubing
2. Six 3-1/8" drill collars
3. Assorted Fishing Tools

1. Hold safety meeting. MIRU completion rig. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM, and NMOCD rules and regulations. NDWH and NU BOP's.
2. POOH w/ tbg, RIH w/ Wilson Type "M" J-Joint tool and pluck the cement retainer ^{from} ~~form~~ the wellbore (note: we will run hydraulic jars with all fishing assemblies). 5283'
3. RIH w/ Metal Muncher Junk Mill w/ stabilization to stay aligned with the wellbore and start milling fish with high RPM and low WOB. (The mills have been used to mill cemented tubing, in some cases, at rates of 30 ft per hour. However, these mills are designed to mill the metal much like a machinist's lathe. The mill does not handle junk very well; the inserts tend to break off.)
4. During fishing operations the situation changes rapidly. For this reason I am not continuing with the fishing procedure at this point. A more effective approach is prior to moving on the well we have a pre-job meeting with the superintendent, rig supervisor, tool pusher, fishing company and engineer. This type of pre-job planning will provide the remainder of the fishing procedure. During the meeting we will brain storm the proposed fishing operation and add to the following table:


| Possible Problems | Possible Solutions |
|---|--|
| No progress recovering the cement retainer. | Mill the retainer and chase it to the top of the fish and finish milling the retainer on the fish. |
| No progress milling on fish | Change cutting structure and mill type |
| Mill outside the casing and are in open hole. | Cement and attempt to regain alignment with the cased hole. |
| Fish spinning in the hole. | RIH w/ overshot to catch tubing. Spot cement to hold fish from turning. |
| Stick fishing tools. | Run fishing economics, make a call to fish or terminate operation. |

By preparing this table we will be able to maximize our efforts attempting to recover the wellbore. If after several days we are not making the progress we anticipate then the wellbore should again be plugged back to the Cliffhouse and a replacement wellbore planned. The success of the fishing job depends on whether we stay in the wellbore or get outside the casing. If we get outside the casing our chances for success will be limited.

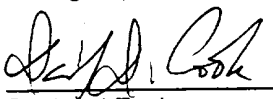
Recess wellbore with string mill

5. Once the fish has been recovered and the wellbore integrity confirmed continue RIH and drill CIBP above Point Lookout at 5570'.
6. Call for test unit/separator and pit to be delivered to location to test Mesaverde Gas/Oil/Water rates. (Lary Byars @ 326-9865)
7. Continue to TIH with 3-7/8" bit on tubing and clean out to CIBP (covering DK) set at 6110'. When water rates are less than 5 BPH and sand volumes are acceptable, pull 200' above top perforation. Obtain stabilized pitot gauge and record on DFW report.

8. RU test unit and pit. Flow test MV up annulus with 200 psi backpressure on unit. Run a minimum 3 hour test and record results on DFW report.
9. RD test unit lines but do not RD unit (needed for later test).
10. Check for fill on CIBP at 6110 '. Drill out CIBP at 6110 '.
11. Clean out to PBTD of 7902 '. (12' above float collar, note: no shoe joint ran in well) Clean up to less then 5 BPH water and trace of sand. Obtain stabilized pitot gauge and record on DFW report. When water rates are less than 5 BPH and sand volumes are acceptable, TOOH & LD bit.
12. PU 4-1/2" pkr & TIH. Set pkr +/- 7580 '. (100' above top Dakota perforation at 7678 '). Set pkr. RU test unit and pit. Flow test DK up tubing with 200 psi backpressure on unit. Run a minimum 3 hour test and record results on WIMS report and the attached test sheet. RD test unit. Release pkr and TOOH.
13. TIH with one joint of 2-3/8", 4.7# J-55 tubing with expendable check, SN and the remaining 2-3/8" tubing. Broach tubing while RIH. Clean out to PBTD at 7902 '. Land tubing at 7850 '.
14. ND BOP's. NU Tree and manifold assembly. Pump off expendable check. Make swab run to kick well off if needed. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min for the entire well. Record on WIMS report. SI well. RD and MOL.

Compiled By:  11/23/98
 Dan T. Voecks
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Approval:  12/2/98
 Drilling Superintendent

Approval:  11/24/98
 Regional Engineer

Engineers -

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San Juan 27-5 Unit #70M

Blanco Mesaverde / Basin Dakota

Unit O, Section 8, T27N, R5W

Rio Arriba County, NM

Elevation: 6670' GL, 6682' KB

LAT: 36° 35' / LONG: 107° 22.7'

date spud: 10/13/97

