

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

RECEIVED

NOV 01 2007

Bureau of Land Management  
Farmington Field Office

1. Type of Well  
GAS

2. Name of Operator  
**BURLINGTON**  
RESOURCES OIL & GAS COMPANY LP

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

4. Location of Well, Footage, Sec., T, R, M

Unit M (SWSW), 990' FSL & 990' FWL, Sec. 23, T27N, R5W, NMPM

5. Lease Number  
NMSF-079492-B  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
San Juan 27-5 Unit  
8. Well Name & Number  
SJ 27-5 Unit #16  
9. API Well No.  
30-039-069640  
10. Field and Pool  
Blanco Mesaverde  
11. County and State  
Rio Arriba Co., NM

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

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging

☒ Casing Repair

☐ Altering Casing

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

☐ Other - Casing repair

RCUD NOV 6 '07

OIL CONS. DIV.

13. Describe Proposed or Completed Operations

DIST. 3

Burlington suspects the subject well has a casing leak and would like to proceed with the trying to isolate the leak and repairing as per the attached procedure.

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

Signed Patsy Clugston Patsy Clugston Title Regulatory Specialist Date 10-31-07

(This space for Federal or State Office use)

APPROVED BY Original Signed: Stephen Mason Title \_\_\_\_\_ Date NOV 02 2007  
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.

NMOC



**SAN JUAN 27-5 #16 MV  
CASING REPAIR**

Latitude : N 36 33.221, Longitude: W 107 20.057

Prepared by: Douglas Montoya      Production Engineering      10/09/2007  
Peer reviewed by:

**Scope of work:** Repair leak in casing. Behind the 5 1/2" production string, perforate squeeze-holes (approximately 4010') & cement-squeeze to repair bradenhead. Drill-out cement. Circulate wellbore clean. Test casing. Return well to production.

**Estimated cost:** \$84,399

**Estimated rig days:** 7

**Well data**

**API:** 30039069640000

**Location:** 990' FSL & 990' FWL, Unit M, Section 23, T27N, R005W

**PBTD:** 5595'

**TD:** 5639'

**Perforations:** 4270'-4888' (Lewis), 4998'-5087' (MV Cliff House), 5145'-5348' (MV Menefee), 5474'-5576' (MV Point Lookout).

**Well history:** The well was spud in 1956; in 2001 Lewis Shale and MV Menefee were perforated and fractured.

**B2 adapters are required on all wells other than pumping wells.**

**Artificial lift on well:** None

**Estimated reservoir pressure:** 723 psi

**Well fell below critical lift:**

**Current rate:** 0 mcf/d

**Estimated post-remedial rate:** 40 mcf/d

**Earthen pit required:** Yes

**Special requirements:** Several joints of 2-3/8" tubing for replacement of any scaled or worn joints.

**BAE production engineer:** Douglas Montoya, Office: 505-599-3425, Cell: 505-320-8523

**BAE backup engineer:** Karen Mead, Office 505-324-5158, Cell 505-320-3753

**MSO:** Dale McInnes, Cell: 505-320-1101, Pager: 505-949-1169

**Lead:** Mick Ferrari, Office: 505-324-5113, Cell: 505-320-2508

**Area foreman:** Richard Lopez, Office: 505-324-5135, Cell: 505-320-9539



**SAN JUAN 27-5 #16 MV  
CASING REPAIR**

Latitude : N 36 33.221, Longitude: W 107 20.057

**PBTD: 5595'  
KB: 10'**

**Project Scope: Repair leak in Intermediate.** Behind the 5 1/2" production string, perforate squeeze-holes (approximately 4010') & cement-squeeze to repair bradenhead. Drill-out cement. Circulate wellbore clean. Test casing. Return well to production.

**Procedure**

1. Hold safety meeting. Comply with all NMOCD, BLM and ConocoPhillips safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig.
2. MIRU. Record tubing, casing, and bradenhead pressures, and record in WellView. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCL if necessary. ND wellhead and NU BOP.
3. Release donut and remove. TIH with tubing to tag for fill, note depth of any fill in WellView (tbg landed @ 5481' KB w/ PBTD @ 5595' KB). TOOH with 5467' of 2-3/8" tubing and additional joints needed to reach PBTD. Visually inspect tubing out of hole. Report findings in WellView.
4. MU RBP for 5 1/2" casing and set to 4230' (Top perforation at 4270').
5. RIH w/ 5 1/2" packer on 2-3/8" work string and set 200' above squeeze hole (hole @ 3520'). Pressure test RBP (500 psi for 15 min). Release 5 1/2" packer and pressure test casing (500 psi for 15 min).
6. Record pressure and any leak off. If test fails, contact Superintendent and Production Engineer for further instructions.
7. NU wireline. Perforate 2 squeeze hole at +/-3520'. RDMO wireline.
8. Ensure 5 1/2" x 7 5/8" annulus is open to pit. Establish circulation rate. Notify Superintendent and Production Engineer if well does not circulate and wait on orders.
9. MIRU cementers. Ensure 5 1/2" x 7 5/8" annulus is open to pit. Tag pre-flush water w/ dye to ensure it is distinguishable from water flowing from bradenhead. Establish circulation rate. Pump 350 sx (50/50 cement) (1.3 cuft/sk, 13.5 ppg). Monitor rate and pressure. Once cement reaches surface displace cement to 50' above squeeze hole.
10. RDMO cementers. WOC.
11. Check intermediate pressure. If water flow and pressure is eliminated, continue per procedure. If pressure is present or water flow is continued, contact Superintendent and Production Engineer.
12. Release packer and TOOH.
13. PU 4-3/4" bit and drill out excess cement left in casing. TOOH.

14. Perform a charted pressure test on squeeze hole to 500 psi for 30 minutes. Call Superintendent and Production Engineer if pressure test fails.
15. PU 3-7/8" bit, drill out CIBP and clean out to PBTD @ 5595'. TOOH with tubing and bit.
16. PU and TIH with mule shoe/expendable check, 1.78" ID F-Nipple, 1 jt 2-3/8" tbg, 2' pup joint, and 2-3/8" tbg to surface. Broach tubing while TIH. Land tubing at 5481' +/-10'.
17. ND BOP, NU wellhead. Notify lease operator that well is ready to be returned to production. RDMO.

Recommended  
BAE Engineer  
Office  
Cell

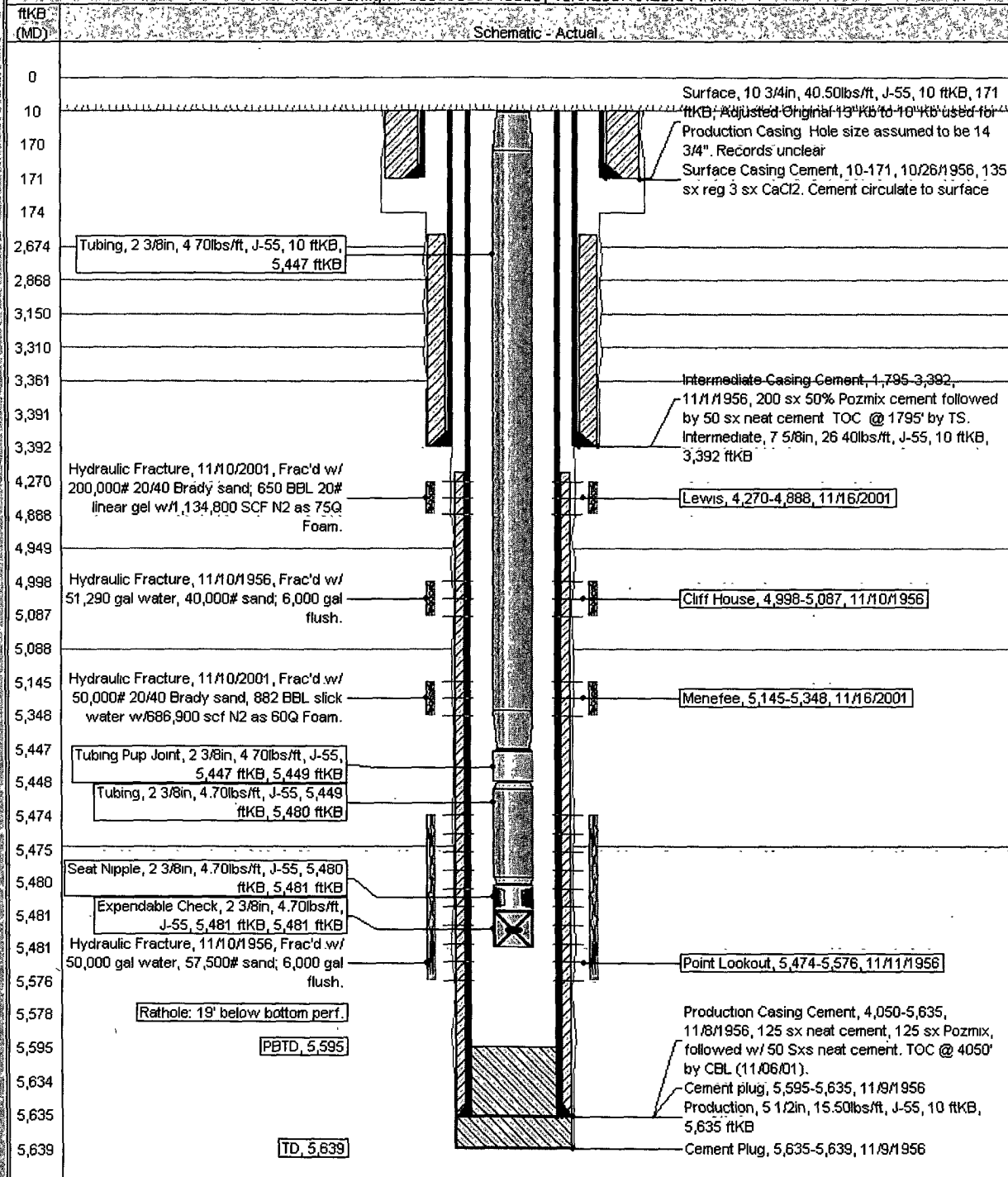
Douglas Montoya  
Douglas Montoya  
(505) 599-3425  
(505) 320-8523

Approved

|                    |                |
|--------------------|----------------|
| Expense Supervisor | Kelly Kolb     |
| Office             | (505) 326-9582 |
| Cell               | (505) 320-4785 |

|                    |                                                  |                         |                      |                              |         |
|--------------------|--------------------------------------------------|-------------------------|----------------------|------------------------------|---------|
| District<br>SOUTH  | Field Name<br>BLANCO MESAVERDE (PRORATED)<br>GAS | API / UWI<br>3003906964 | County<br>RIO ARRIBA | State/Province<br>NEW MEXICO | Edit    |
| Original Spud Date | Surface Legal Location                           | E/W Dist (ft)           | E/W Ref              | N/S Dist (ft)                | N/S Ref |

Well Config: 30039069640000, 10/9/2007 9:28:34 AM



# Pertinent Data Sheet

ConocoPhillips

Well Name: SAN JUAN 27.5 UNIT #16

|                      |                            |                                |                                |                                |                         |      |
|----------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|------|
| API/UNIL             | Surface Legal Location     | Field Name                     | License No                     | State/Province                 | Well Configuration Type | Edit |
| 3003906964           | NMPM.023-027N-005W         | BLANCO MESA VERDE (PERFORATED) |                                | NEW MEXICO                     |                         |      |
| Gross Elevation (ft) | Original KB Elevation (ft) | KB-Gross Distance (ft)         | KB-Casing Flange Distance (ft) | KB-Tubing Hanger Distance (ft) |                         |      |
| 6,500.00             | 6,510.00                   | 10.00                          | 6,510.00                       | 6,510.00                       |                         |      |

|                    |                   |                   |
|--------------------|-------------------|-------------------|
| Well Attributes    |                   | Edit              |
| Original Spud Date | Latitude (DMS)    | Longitude (DMS)   |
| 10/24/1956         | 36° 33' 13.198" N | 107° 20' 3.599" W |

|            |         |
|------------|---------|
| PBTDs      | Edit    |
| Depth (ft) | 5,595.0 |

|                 |                   |
|-----------------|-------------------|
| Formations      | Edit              |
| Formation Name  | Final Top MD (ft) |
| OJO ALAMO       | 2,674.0           |
| KIRTLAND        | 2,668.0           |
| FRUITLAND       | 3,150.0           |
| PICTURED CLIFFS | 3,310.0           |
| LEWIS           | 3,361.0           |
| CLIFF HOUSE     | 4,949.0           |
| MENEFE          | 5,088.0           |
| POINT LOOKOUT   | 5,475.0           |

| Casing Strings     |         |            |            |                |      |                                                                                                                 |          |      |  |
|--------------------|---------|------------|------------|----------------|------|-----------------------------------------------------------------------------------------------------------------|----------|------|--|
| Casing Description |         | Rin Date   |            | Set Depth (ft) |      | Comment                                                                                                         |          | Edit |  |
| Surface            |         | 10/24/1956 |            | 171.3          |      | Adjusted Original 13' Kb to 10' Kb used for Production Casing. Hole size assumed to be 14 3/4". Records unclear |          |      |  |
| Item Description   | OD (in) | ID (in)    | WT (lb/ft) | Grade          | Jt   | Le (ft)                                                                                                         | Top (ft) | Edit |  |
| Casing Joints      | 10 3/4  |            | 10.050     | 40.50          | J-55 | 4                                                                                                               | 160.27   |      |  |
| Guide Shoe         | 10 3/4  |            | 10.050     |                |      | 1                                                                                                               | 1.00     |      |  |
| Casing Description |         | Rin Date   |            | Set Depth (ft) |      | Comment                                                                                                         |          | Edit |  |
| Intermediate       |         | 10/31/1956 |            | 3,392.0        |      |                                                                                                                 |          |      |  |
| Item Description   | OD (in) | ID (in)    | WT (lb/ft) | Grade          | Jt   | Le (ft)                                                                                                         | Top (ft) | Edit |  |
| Casing Joints      | 7 5/8   |            | 6.969      | 26.40          | J-55 | 108                                                                                                             | 3,381.00 |      |  |
| Guide Shoe         | 7 5/8   |            | 6.969      |                |      | 1                                                                                                               | 1.00     |      |  |
| Casing Description |         | Rin Date   |            | Set Depth (ft) |      | Comment                                                                                                         |          | Edit |  |
| Production         |         |            |            | 5,635.0        |      |                                                                                                                 |          |      |  |
| Item Description   | OD (in) | ID (in)    | WT (lb/ft) | Grade          | Jt   | Le (ft)                                                                                                         | Top (ft) | Edit |  |
| Casing Joints      | 5 1/2   |            | 4.950      | 15.50          | J-55 | 139                                                                                                             | 5,624.00 |      |  |
| Guide Shoe         | 5 1/2   |            | 4.950      |                |      | 1                                                                                                               | 1.00     |      |  |

| Cement                     |            |          |                                                                                                   | Edit |
|----------------------------|------------|----------|---------------------------------------------------------------------------------------------------|------|
| Description                | Start Date | End Date | Comment                                                                                           |      |
| Surface Casing Cement      | 10/26/1956 |          | 135 sx reg 3 sx CaCl2. Cement circulate to surface                                                |      |
| Intermediate Casing Cement | 11/1/1956  |          | 200 sx 50% Pozmix cement followed by 50 sx neat cement. TOC @ 1795' by TS                         |      |
| Production Casing Cement   | 11/8/1956  |          | 125 sx neat cement, 125 sx Pozmix, followed w/ 50 Sxs neat cement. TOC @ 4050' by CBL (11/06/01). |      |
| Cement Plug                | 11/9/1956  |          |                                                                                                   |      |

| TUBING - PRODUCTION set at 5,481.3ftKB on 11/16/2001,00:00 |            |                |                                                             |       |     |          |          |      |  | Edit |
|------------------------------------------------------------|------------|----------------|-------------------------------------------------------------|-------|-----|----------|----------|------|--|------|
| Tubing Description                                         | Ris Date   | Set Depth (ft) | Comment                                                     |       |     |          |          |      |  |      |
| TUBING - PRODUCTION                                        | 11/16/2001 | 5,481.3        | Adjust Original 13' Kb to 10' Kb used for Production Casing |       |     |          |          |      |  |      |
| Item Description                                           | OD (in)    | ID (in)        | WT (lb/ft)                                                  | Grade | Jt  | Le (ft)  | Top (ft) | Edit |  |      |
| Tubing                                                     | 2 3/8      | 1.995          | 4.70                                                        | J-55  | 177 | 5,436.55 | 5,481.3  | 10.0 |  |      |
| Tubing Pup Joint                                           | 2 3/8      | 1.995          | 4.70                                                        | J-55  | 1   | 2.10     | 5,446.6  |      |  |      |
| Tubing                                                     | 2 3/8      | 1.995          | 4.70                                                        | J-55  | 1   | 31.05    | 5,448.7  |      |  |      |
| Seat Nipple                                                | 2 3/8      | 1.780          | 4.70                                                        | J-55  | 1   | 0.85     | 5,479.7  |      |  |      |
| Expendable Check                                           | 2 3/8      | 1.995          | 4.70                                                        | J-55  | 1   | 0.75     | 5,480.6  |      |  |      |

| Perforations |          |          |                                      |                                                                       | Edit |
|--------------|----------|----------|--------------------------------------|-----------------------------------------------------------------------|------|
| Date         | Top (ft) | Bot (ft) | Zone                                 | Comment                                                               |      |
| 11/16/2001   | 4,270.0  | 4,888.0  | LEWIS SHALE,<br>30039069640000       | Perf from 4,270' to 4,888' w/1 SPF. 40 HOLES                          |      |
| 11/10/1956   | 4,998.0  | 5,087.0  | CLIFF HOUSE,<br>30039069640000       | Perf. from 4998'-5010', 5042'-5056', 5067'-5087' w/4 SPF              |      |
| 11/16/2001   | 5,145.0  | 5,348.0  | MESA VERDE MENEFE,<br>30039069640000 | PERF from 5145' to 5348' w/2 SPF. 26 HOLES                            |      |
| 11/11/1956   | 5,474.0  | 5,576.0  | POINT LOOKOUT,<br>30039069640000     | Perf. from 5474'-5490', 5508'-5516', 5526'-5542', 5566'-5576' w/4 SPF |      |

# Pertinent Data Sheet



Well Name: SAN JUAN 27-5 UNIT #16

|                                     |                                             |                                               |                                            |                                            |                         |      |
|-------------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------|------|
| API / UWI<br>3003906964             | Strace Legal Location<br>NMPM,023-027N-005W | Field Name<br>BLANCO MESAVERDE (PRODUCED ...) | License No                                 | State / Province<br>NEW MEXICO             | Well Configuration Type | Edit |
| Ground Elevation (ft)<br>6,500.00 - | Original KB Elevation (ft)<br>6,510.00      | KB-Gravel Distance (ft)<br>10.00              | KB-Casing Flange Distance (ft)<br>6,510.00 | KB-Tubing Hanger Distance (ft)<br>6,510.00 |                         |      |

## Stimulations & Treatments

| Hydraulic Fracture on 11/10/1956 11:30 |                                      |                                                                                            | Edit |
|----------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------|------|
| Type                                   | Zone                                 | Comment                                                                                    |      |
| Hydraulic Fracture                     | POINT LOOKOUT,<br>30039069640000     | Frac'd w/ 51,290 gal water, 40,000# sand, 6,000 gal flush.                                 |      |
| Hydraulic Fracture on 11/10/1956 14:15 |                                      |                                                                                            | Edit |
| Type                                   | Zone                                 | Comment                                                                                    |      |
| Hydraulic Fracture                     | CLIFF HOUSE,<br>30039069640000       | Frac'd w/ 50,000 gal water; 57,500# sand, 6,000 gal flush.                                 |      |
| Hydraulic Fracture on 11/10/2001 10:30 |                                      |                                                                                            | Edit |
| Type                                   | Zone                                 | Comment                                                                                    |      |
| Hydraulic Fracture                     | MESAVERDE MENELEE,<br>30039069640000 | Frac'd w/ 50,000# 20/40 Brady sand, 882 BBL slick water w/686,900 scf N2 as 60Q Foam.      |      |
| Hydraulic Fracture on 11/10/2001 15:15 |                                      |                                                                                            | Edit |
| Type                                   | Zone                                 | Comment                                                                                    |      |
| Hydraulic Fracture                     | LEWIS SHALE,<br>30039069640000       | Frac'd w/ 200,000# 20/40 Brady sand; 650 BBL 20# linear gel w/1,134,800 SCF N2 as 75Q Foam |      |