ConocoPhillips Company
3401 E. 30th Street
Farmington, NM 87402

ConocoPhillips

Monica Kuehling
Oil Conservation Division
1000 Rio Brazos Rd
Aztec, NM 87410

April 11, 2011

RE: San Juan 28-6 Unit 155
API# 30-039-20397
Sec. 28, T28N, R6W
Lease #: SF-079050-C
Reference: RBDMS MPK1104755831

Dear Mrs. Kuehling:

On February 24, 2011 a letter was received from the NMOCD Aztec Office regarding the subject well having a bradenhead failure. A Notice of Intent has been filed to perform a tubing repair on the well, which is attached. Also attached is a copy of the last two BH tests, a current wellbore schematic and gas analysis for the casing strings. A cement bond log will be performed during the remedial activity and results will be submitted to the NMOCD Aztec Office.

If further detail or information is needed regarding the subject well please contact me at 326-9837.

Sincerely,

Crystal Tafoya

Crystal Tafoya
Staff Regulatory Technician

Notify NMOCD 24 hrs prior to beginning operations

RECEIVED
APR 2011
OIL CONS. DIV. DIST. 3

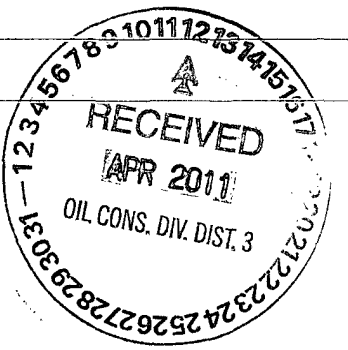
BP Approved

AC

submitted in lieu of Form 3160-5

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

Sundry Notices and Reports on Wells




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 L (NWSW), 1550' FSL & 1190' FWL, Section 28, T28N, R6W, NMPM**

5. **Lease Number**
**SF-079050-C**

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**
**San Juan 28-6 Unit**

8. **Well Name & Number**
**San Juan 28-6 Unit 155**

9. **API Well No.**
**30-039-20397**

10. **Field and Pool**
**Basin Dakota**

11. **County and State**
**Rio Arriba, NM**

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

| Type of Submission | Type of Action | | | |
|---|---|---|---|---|
| X Notice of Intent | Abandonment | Change of Plans | X Other – | Tubing Repair |
| | Recompletion | New Construction | | |
| Subsequent Report | Plugging | Non-Routine Fracturing | | |
| | Casing Repair | Water Shut off | | |
| Final Abandonment | Altering Casing | Conversion to Injection | | |

**13. Describe Proposed or Completed Operations**

Burlington Resources requests permission to perform a tubing repair on the subject well per the attached procedure and current wellbore schematic. This is a compliance well per the NMOCD Reference: RBDMS MPK 1104755831.

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

Signed Crystal Tafoya Crystal Tafoya Title: Staff Regulatory Technician Date 4/11/11

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
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.

# ConocoPhillips
## San Juan 28-6 Unit 155
### Expense - Repair Tubing

**Lat 36° 37' 45.372" N** **Long 107° 28' 36.624" W**

**PROCEDURE**

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.

2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview.

3. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCl, if necessary.

**Note: Secondary Seal Test indicated test port plug had pressure. There maybe pressure in the intermediate annulus from being charged.**

4. ND wellhead and NU BOPE. PU and remove tubing hanger and tag for fill, adding additional joints as needed (tubing currently landed @ 7806', PBTD @ 7895'). Record fill depth in Wellview.

5. TOOH with tubing (details below).

| Number | Description |
|---|---|
| 253 | 2-3/8" 4.7# J-55 EUE tubing joints (7,758.89') |
| 1 | 2-3/8" 4.7# J-55 EUE tubing pup joints (2.60') |
| 1 | 2-3/8" 4.7# J-55 EUE tubing joints (31.10') |
| 1 | 2-3/8"x1.780" ID F-Nipple (0.87') |
| 1 | Expendable Check Valve/Mule Shoe (0.87') |

Use Tuboscope Unit to inspect tubing and record findings in Wellview. **Make note of corrosion, scale, or paraffin and save a sample to give to the engineer for further analysis.** LD and replace any bad joints. If needed, contact Rig Superintendent or engineer for acid, volume, concentration, and displacement volume.

6. RIH with a bit and string mill, cleanout to PBTD of 7895'. **Save a sample of the fill and contact engineer for further analysis.** TOOH. LD tubing bailer (if applicable). If fill could not be CO to PBTD, please call Production Engineer to inform how much fill was left and confirm/adjust landing depth.

7. PU packer and retrievable bridge plug for 4 1/2" 11.6# K-55 casing. RIH and set retrievable bridge plug at approximately **7582'KB (40' above top perforation)**. PU up one stand and set packer to test retrievable bridge plug.

8. Pressure test retrievable bridge plug with packer, if test fails unset retrievable bridge plug and reset/retest. POOH with packer and reload well with 2% KCl water.

9. Confirm two barriers have been established. **Remove tubing head and inspect secondary seals. If no seal is found, contact Cameron to repair wellhead and install secondary seal. (Confirm 4 1/2" casing sealing with casing hanger).** NU tubing head and close intermediate/bradenhead valves. Keep shut in and monitor pressure.

10. Rig up Weatherford Wireline Services and log well for **GR/CCL/CBL** to confirm production casing cement top. (TOC at 3190' TS 7/23/1971)

11. **Casing Pressure Test.** Load well with 2% KCl water. **Pressure test the 4 1/2" casing to 560 psi for 30 min on a chart recorder with a maximum two hour clock and maximum 1000 pound spring with the intermediate and bradenhead valves open.** (Chart recorder calibrated within the six months prior conducting casing integrity test) **If the casing does not test, contact the rig superintendent and production engineer for instruction.**

12. RIH with tubing and cleanout fluid to prevent fallback on to perforations/formations once retrievable bridge plug is removed. Equalize pressure across the retrievable bridge plug, then release retrievable bridge plug and POOH with retrievable bridge plug.

13. TIH with tubing using Tubing Drift Procedure. (detail below).

| **Recommended** | |
|---|---|
| Tubing Drift ID: | 1.901" |
| Land Tubing At: | 7806' |
| Land F-Nipple At: | 7804' |

| Number | Description |
|---|---|
| 1 | 2-3/8" Mule Shoe/Expendable Check |
| 1 | 2-3/8"x1.780" ID F-Nipple |
| 1 | 2-3/8" 4.7# J-55 EUE tubing joints (31.5') |
| 1 | 2-3/8" 4.7# J-55 EUE tubing pup joints (2') |
| 246 | 2-3/8" 4.7# J-55 EUE tubing joints (7739') |
| X | 2-3/8" 4.7# J-55 EUE tubing pup joints (Pup Joints as necessary to achieve proper landing depth) |
| 1 | 2-3/8" 4.7# J-55 EUE tubing joints (31.5') |

14. If there is an air package on location, skip to the next step. Run standing valve on shear tool, load tubing, and pressure test to 500#. Monitor pressure for 15 mins, and make a swab run to remove the fluid from the tubing. Retrieve standing valve.

15. Perform/Document a BH Test on location and contact the rig superintendent and production engineer with test results.

16. ND BOPE, NU Wellhead. Pressure test tubing slowly with an air package as follows: pump 3 bbls pad, drop steel ball, pressure tubing up to 500 psi, and bypass air. Monitor pressure for 15 mins., then complete the operation by pumping off the expendable check. Note in Wellview the pressure in which the check pumped off. Notify the MSO that the well is ready to be turned over to Production Operations. Make swab run to kick-off the well, if necessary, then RDMO.

## Tubing Drift Check

**Procedure**

1. Set flow control in tubing. With air, on location, use expendable check. With no air on location, use wire line plug.

2. RU drift tool to a minimum 70' line. Drift tool will have an OD of at least the API drift specification of 1.901" for the 2 3/8",4.7# tubing, and will be at least 15" long. The tool will not weigh more than 10# and will have an ID bore the length of the tool, so fluids may be pumped through the tool if it becomes stuck.

3. Drop the tool into the tubing string and retrieve it after every 2 joints of tubing ran in hole. If any resistance to the tool movement is noticed, going in or out, that joint will be replaced.

4. In order to stimulate the plunger lift operation, all equipment must be kept clean and free of debris.

The drift tool should be measured with calipers before each job, to ensure the OD is the correct size for the tubing being checked. The maximum allowable wear of the tool is .003".

# Current Schematic

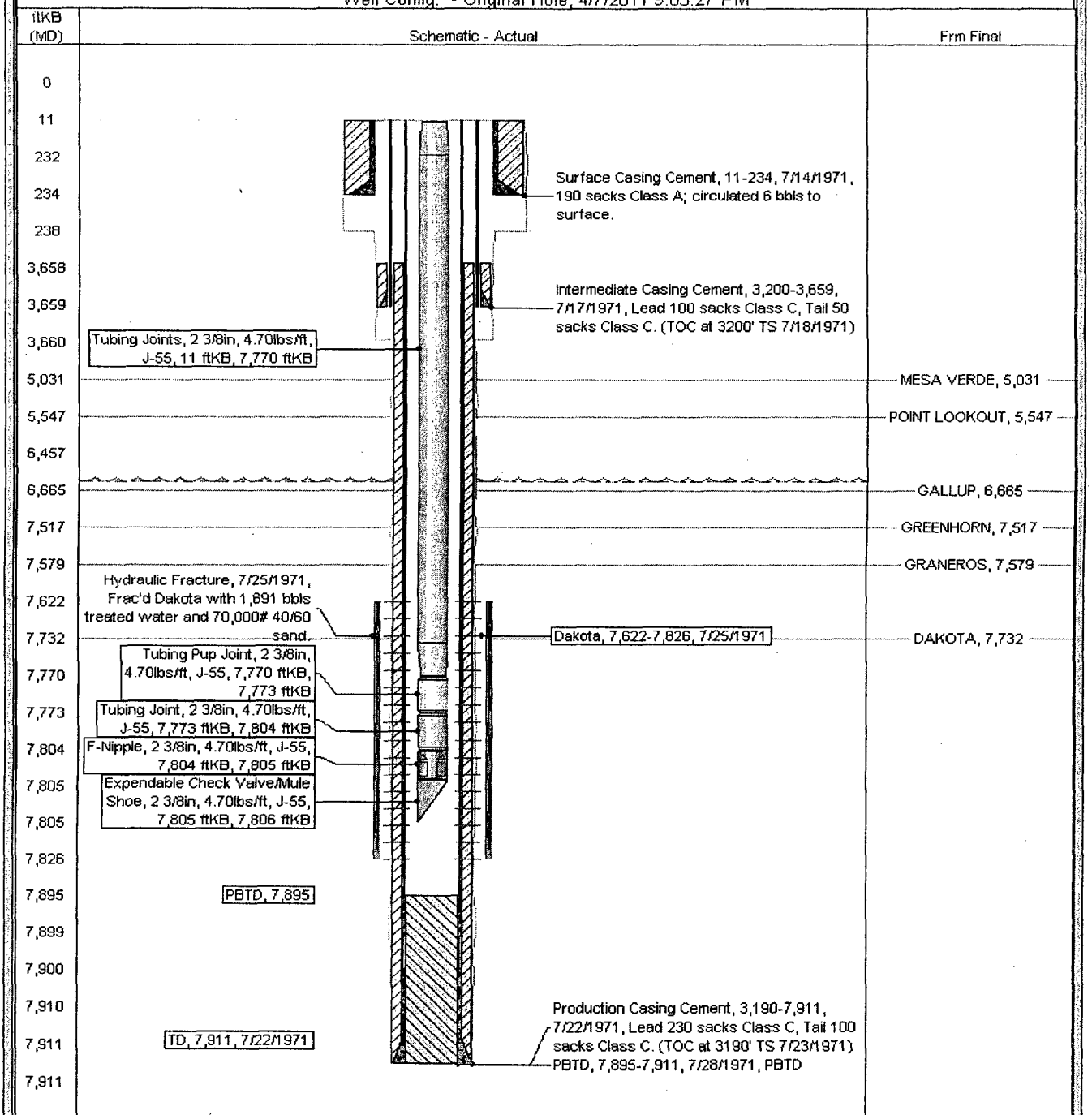
**ConocoPhillips**

**Well Name: SAN JUAN 28-6 UNIT #155**

| API / UWI | Surface Legal Location | Field Name | License No. | State/Province | Well Configuration Type |
|---|---|---|---|---|---|
| 3003920397 | NMPM,028-028N-006W | BASIN DAKOTA (PRORATED GAS) | | NEW MEXICO | Edit |

| Ground Elevation (ft) | Original KB/RT Elevation (ft) | KB-Ground Distance (ft) | KB-Casing Flange Distance (ft) | KB-Tubing Hanger Distance (ft) |
|---|---|---|---|---|
| 6,605.00 | 6,616.00 | 11.00 | 6,616.00 | 6,616.00 |

Well Config: - Original Hole, 4/7/2011 9:03:27 PM






Report Printed: 4/7/2011

**NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
http://emnrd.state.nm.us/ocd/District III/3distric.htm

# BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9/10/2007 Operator Burlington Resources API # 3003920397

Property Name SAN JUAN 28-6 UNIT Well No. 155 Location: Unit L Section 28 Township 028N Range 006W

Well Status Flowing Initial PSI: Tubing 280 Intermediate _____ Casing 300 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

**PRESSURE**

| Testing TIME | BRADENHEAD BH | BRADENHEAD Int | BRADENHEAD Csg | INTERM Int | INTERM Csg |
|---|---|---|---|---|---|
| 5 min | 0 | | 300 | | |
| 10 min | 0 | | 300 | | |
| 15 min | 0 | | 300 | | |
| 20 min | | | | | |
| 25 min | | | | | |
| 30 min | | | | | |

**FLOW CHARACTERISTICS**

| | BRADENHEAD | INTERMEDIATE |
|---|---|---|
| Steady Flow | | |
| Surges | | |
| Down to Nothing | | |
| Nothing | Y | |
| Gas | | |
| Gas & Water | | |
| Water | | |

**If Bradenhead flowed water, check all of the descriptions that apply below:**

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

**If Intermediate flowed water, check all of the descriptions that apply below:**

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

**5 MINUTE SHUT-IN PRESSURE** Bradenhead 0 Intermediate _____

REMARKS:

Tested By chenada Witness _____

**NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
http://emnrd.state.nm.us/ocd/District III/3distric.htm

# BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9/2/2010 Operator Burlington Resources API # 3003920397

Property Name SAN JUAN 28-6 UNIT Well No. 155 Location: Unit L Section 28 Township 028N Range 006W

Well Status Flowing Initial PSI: Tubing 189 Intermediate 212 Casing 213 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

**PRESSURE**

| Testing TIME | BRADENHEAD BH | BRADENHEAD Int | BRADENHEAD Csg | INTERM Int | INTERM Csg |
|---|---|---|---|---|---|
| 5 min | | 212 | 213 | | 151 |
| 10 min | | 212 | 213 | | 104 |
| 15 min | | 212 | 213 | | 80 |
| 20 min | | | | | 55 |
| 25 min | | | | | 28 |
| 30 min | | | | | 13 |

**FLOW CHARACTERISTICS**

| | BRADENHEAD | INTERMEDIATE |
|---|---|---|
| Steady Flow | | |
| Surges | | Y |
| Down to Nothing | | |
| Nothing | Y | |
| Gas | | Y |
| Gas & Water | | |
| Water | | |

**If Bradenhead flowed water, check all of the descriptions that apply below:**

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

**If Intermediate flowed water, check all of the descriptions that apply below:**

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

**5 MINUTE SHUT-IN PRESSURE** Bradenhead 0 Intermediate 59

REMARKS:

BH had 0 thru 1" bv and INTER blew intire 30 minutes thru 2" bv. INTER and casing blew down in sync with each other.

Tested By ulibaav Witness No

ConocoPhillips

# Schematic - Current

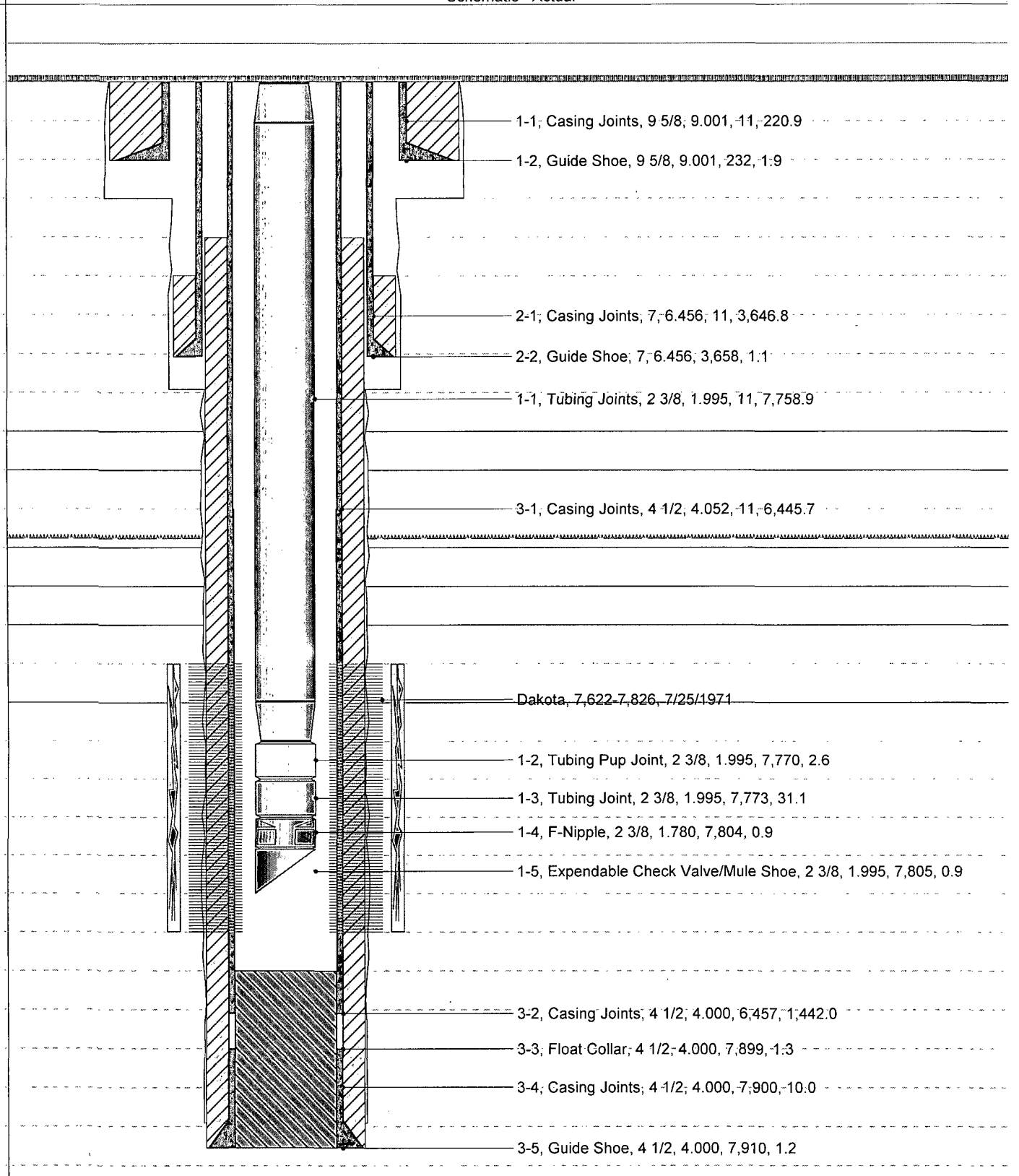
## SAN JUAN 28-6 UNIT #155

| District | Field Name | API / UWI | County | State/Province |
|---|---|---|---|---|
| SOUTH | BASIN DAKOTA (PRORATED GAS) | 3003920397 | RIO ARRIBA | NEW MEXICO |

| Original Spud Date | Surface Legal Location | East/West Distance (ft) | East/West Reference | North/South Distance (ft) | North/South Reference |
|---|---|---|---|---|---|
| 7/13/1971 | NMPM,028-028N-006W | 1,190.00 | W | 1,550.00 | S |

Well Config: - Original Hole, 4/11/2011 12:48:02 PM

Schematic - Actual



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. CP110103
CUST. NO. 18300 - 20090

## WELL/LEASE INFORMATION

| | | | |
|---|---|---|---|
| **CUSTOMER NAME** | CONOCO PHILLIPS COMPANY | **SOURCE** | CASING STRING |
| **WELL NAME** | SAN JUAN 28-6 #155 | **PRESSURE** | 500 PSI G |
| **COUNTY/ STATE** | RIO ARRIBA NM | **SAMPLE TEMP** | N/A DEG.F |
| **LOCATION** | C28-28N-06W | **WELL FLOWING** | N |
| **FIELD** | | **DATE SAMPLED** | 03/17/2011 |
| **FORMATION** | | **SAMPLED BY** | ADRIAN ULIBARRI |
| **CUST.STN.NO.** | 87298-019<br>A02271165SM | **FOREMAN/ENGR.** | JESSE DUTKO |

**REMARKS**

ANALYSIS

| COMPONENT | MOLE % | GPM** | B.T.U.* | SP.GR * |
|---|---|---|---|---|
| NITROGEN | 0.141 | 0.0160 | 0.00 | 0.0014 |
| CO2 | 0.897 | 0.1540 | 0.00 | 0.0136 |
| METHANE | 86.288 | 14.6690 | 871.51 | 0.4779 |
| ETHANE | 7.979 | 2.1400 | 141.20 | 0.0828 |
| PROPANE | 2.631 | 0.7270 | 66.20 | 0.0401 |
| I-BUTANE | 0.639 | 0.2100 | 20.78 | 0.0128 |
| N-BUTANE | 0.617 | 0.1950 | 20.13 | 0.0124 |
| I-PENTANE | 0.327 | 0.1200 | 13.08 | 0.0081 |
| N-PENTANE | 0.159 | 0.0580 | 6.37 | 0.0040 |
| HEXANE PLUS | 0.322 | 0.1440 | 16.97 | 0.0107 |
| TOTAL | 100.000 | 18.4330 | 1,156.24 | 0.6638 |

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
** @ 14.730 PSIA & 60 DEG. F.

| | | |
|---|---|---|
| COMPRESSIBLITY FACTOR | (1/Z) | 1.0030 |
| BTU/CU.FT (DRY) CORRECTED FOR | (1/Z) | 1,162.3 |
| BTU/CU.FT (WET) CORRECTED FOR | (1/Z) | 1,142.1 |
| REAL SPECIFIC GRAVITY | | 0.6655 |

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

| | |
|---|---|
| DRY BTU @ 14.650 | 1,156.0 |
| DRY BTU @ 14.696 | 1,159.6 |
| DRY BTU @ 14.730 | 1,162.3 |
| DRY BTU @ 15.025 | 1,185.6 |

| | |
|---|---|
| CYLINDER # | 4142 |
| CYLINDER PRESSURE | 447 PSIG |
| DATE RUN | 03/21/2011 |
| ANALYSIS RUN BY | PATRICIA KING |

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

| | | | |
|---|---|---|---|
| **LEASE :** | SAN JUAN 28-6 #155 | CASING STRING | 3/21/2011 |
| **STN.NO. :** | 87298-019 | | 18300 - 20090 |
| **MTR.NO. :** | A02271165SM | | |

| | |
|---|---|
| SMPL DATE | 03/17/2011 |
| TEST DATE | 03/21/2011 |
| RUN NR. | CP110103 |
| NITROGEN | 0.141 |
| CO2 | 0.897 |
| METHANE | 86.288 |
| ETHANE | 7.979 |
| PROPANE | 2.631 |
| I-BUTANE | 0.639 |
| N-BUTANE | 0.617 |
| I-PENTANE | 0.327 |
| N-PENTANE | 0.159 |
| HEXANE + | 0.322 |
| BTU | 1,162.3 |
| GPM | 18.4330 |
| SP.GRAV. | 0.6655 |

2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. CP110104
CUST. NO. 18300 - 20095

## WELL/LEASE INFORMATION

| | | | |
|---|---|---|---|
| CUSTOMER NAME | CONOCO PHILLIPS COMPANY | SOURCE | INTERMEDIATE VALVE |
| WELL NAME | SAN JUAN 28-6 #155 | PRESSURE | 500 PSI G |
| COUNTY/ STATE | RIO ARRIBA NM | SAMPLE TEMP | N/A DEG.F |
| LOCATION | C28-28N-06W | WELL FLOWING | N |
| FIELD | | DATE SAMPLED | 03/17/2011 |
| FORMATION | | SAMPLED BY | ADRIAN ULIBARRI |
| CUST.STN.NO. | 87298-019<br>A02271165SM | FOREMAN/ENGR. | JESSE DUTKO |

REMARKS

ANALYSIS

| COMPONENT | MOLE % | GPM** | B.T.U.* | SP.GR * |
|---|---|---|---|---|
| NITROGEN | 0.144 | 0.0160 | 0.00 | 0.0014 |
| CO2 | 0.820 | 0.1400 | 0.00 | 0.0125 |
| METHANE | 87.083 | 14.8020 | 879.54 | 0.4824 |
| ETHANE | 7.672 | 2.0570 | 135.77 | 0.0797 |
| PROPANE | 2.322 | 0.6410 | 58.42 | 0.0354 |
| I-BUTANE | 0.522 | 0.1710 | 16.97 | 0.0105 |
| N-BUTANE | 0.492 | 0.1560 | 16.05 | 0.0099 |
| I-PENTANE | 0.256 | 0.0940 | 10.24 | 0.0064 |
| N-PENTANE | 0.133 | 0.0480 | 5.33 | 0.0033 |
| HEXANE PLUS | 0.556 | 0.2490 | 29.31 | 0.0184 |
| TOTAL | 100.000 | 18.3740 | 1,151.63 | 0.6596 |

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
** @ 14.730 PSIA & 60 DEG. F.

| | | |
|---|---|---|
| COMPRESSIBLITY FACTOR | (1/Z) | 1.0029 |
| BTU/CU.FT (DRY) CORRECTED FOR | (1/Z) | 1,157.7 |
| BTU/CU.FT (WET) CORRECTED FOR | (1/Z) | 1,137.6 |
| REAL SPECIFIC GRAVITY | | 0.6613 |

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

| | |
|---|---|
| DRY BTU @ 14.650 | 1,151.4 |
| DRY BTU @ 14.696 | 1,155.0 |
| DRY BTU @ 14.730 | 1,157.7 |
| DRY BTU @ 15.025 | 1,180.9 |

| | |
|---|---|
| CYLINDER # | 6000 |
| CYLINDER PRESSURE | 118 PSIG |
| DATE RUN | 03/21/2011 |
| ANALYSIS RUN BY | DAWN BLASSINGAME |

CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

| | | | |
|---|---|---|---|
| **LEASE :** | SAN JUAN 28-6 #155 | INTERMEDIATE VALVE | 3/21/2011 |
| **STN.NO. :** | 87298-019 | | 18300 - 20095 |
| **MTR.NO. :** | A02271165SM | | |

| | |
|---|---|
| SMPL DATE | 03/17/2011 |
| TEST DATE | 03/21/2011 |
| RUN NR. | CP110104 |
| NITROGEN | 0.144 |
| CO2 | 0.820 |
| METHANE | 87.083 |
| ETHANE | 7.672 |
| PROPANE | 2.322 |
| I-BUTANE | 0.522 |
| N-BUTANE | 0.492 |
| I-PENTANE | 0.256 |
| N-PENTANE | 0.133 |
| HEXANE + | 0.556 |
| BTU | 1,157.7 |
| GPM | 18.3740 |
| SP.GRAV. | 0.6613 |