

**Energy Minerals and Natural Resources Department**

## Oil Conservation Division

2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

**SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO APPROPRIATE  
DISTRICT OFFICE**

**APPLICATION FOR**  
**WELL WORKOVER PROJECT**

### 1. Operator and Well

|   |               |                 |              |                       |                           |                       |   |                    |
|---|---------------|-----------------|--------------|-----------------------|---------------------------|-----------------------|---|--------------------|
| Operator name & address<br>Conoco Inc.<br>P.O. Box 1267<br>Ponca City, OK 74602 |               |                 |              |                       |                           |                       | OGRID Number<br>005073                    |                    |
| Contact Party<br>Cristy Pannell   |               |                 |              |                       |                           |                       | Conoco Cmpl 1884434<br>1997319<br>1997320 |                    |
| Property Name<br>Johnston LS (6X)   |               |                 |              |                       | Well Number<br>6X         |                       | API Number<br>30-045-07562                |                    |
| UL<br>M   | Section<br>10 | Township<br>28N | Range<br>9 W | Feet From The<br>1168 | North/South Line<br>South | Feet From The<br>1090 | East/West Line<br>West                    | County<br>San Juan |

## II. Workover

|                                      |   |
|--------------------------------------|---|
| Date Workover Commenced:<br>09/13/01 | Previous Producing Pool(s) (Prior to Workover):<br>Blanco Mesaverde |
| Date Workover Completed:<br>10/08/01 |   |

III. Attach a description of the Workover Procedures performed to increase production. **Well was recompleted to Aztec Pictured Cliffs and Otero-Chacra, see attached.**

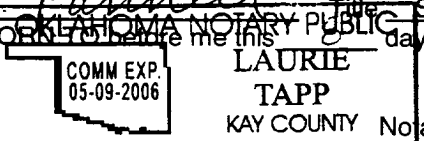
IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase. **Data tabulation attached.**

V. AFFIDAVIT:

State of Oklahoma )  
 ) ss.  
County of Kay )  
Cristy Pannell, being first duly sworn, upon oath states:

1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well.
2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.
3. To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.

Signature Cristy L. Pannell Title Staff Analyst Date \_\_\_\_\_  
SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_ day of August, 2002.

 My Commission expires: # 98007224

Laurie Tapp

**FOR OIL CONSERVATION DIVISION USE ONLY:**

## VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed on 10-08, 2001.

|   |                                  |                           |
|---|----------------------------------|---------------------------|
| Signature District Supervisor<br><i>Charlie Thern</i> | OCD District<br><i>AZTEC III</i> | Date<br><i>08-13-2002</i> |
|---|----------------------------------|---------------------------|

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

| Compl Name - Compl | Compl ID - Compl | Compl Legacy Cd - Compl | API Well Cd - Compl | Rsvr Name - Compl          | PUN / SUFFIX   | Cnty Name - Compl | Sect | TWN | RNG | Dir |
|--------------------|------------------|-------------------------|---------------------|----------------------------|----------------|-------------------|------|-----|-----|-----|
| JOHNSTON LS 6X CH  | 1997319          | 7150191 6XEEM           | 300450756200        | OTERO-CHACRA (GAS)         | 1222172 F 4530 | SAN JUAN          | 10   | 28  | 9   | W   |
| JOHNSTON LS 6X MV  | 1884434          | 7115256 6XRON           | 300450756200        | BLANCO MESAVERDE           | 1009334 F 4530 | SAN JUAN          | 10   | 28  | 9   | W   |
| JOHNSTON LS 6X PC  | 1997320          | 7150191 6XUPE           | 300450756200        | AZTEC PICTURED CLIFFS(GAS) | 1190287 F 4530 | SAN JUAN          | 10   | 28  | 9   | W   |

| Production Date | Workover Indicator    | AZTEC PICTURED CLIFFS(GAS) | BLANCO MESAVERDE | OTERO-CHACRA (GAS) |
|-----------------|-----------------------|----------------------------|------------------|--------------------|
| 10/2000         | 1 Pre Workover Period |                            | 1,792            |                    |
| 11/2000         | 1 Pre Workover Period |                            | 1,088            |                    |
| 12/2000         | 1 Pre Workover Period |                            | 1,324            |                    |
| 01/2001         | 1 Pre Workover Period |                            | 918              |                    |
| 02/2001         | 1 Pre Workover Period |                            | 901              |                    |
| 03/2001         | 1 Pre Workover Period |                            | 1,837            |                    |
| 04/2001         | 1 Pre Workover Period |                            | 1,954            |                    |
| 05/2001         | 1 Pre Workover Period |                            | 4,336            |                    |
| 06/2001         | 1 Pre Workover Period |                            | 1,681            |                    |
| 07/2001         | 1 Pre Workover Period |                            | 1,798            |                    |
| 08/2001         | 1 Pre Workover Period |                            | 1,599            |                    |
| 09/2001         | 1 Pre Workover Period |                            | 634              |                    |
|                 | Sum:                  |                            | 19,862           |                    |

|         |                   |       |     |       |
|---------|-------------------|-------|-----|-------|
| 10/2001 | 2 Workover Period | 8,504 | 819 | 4,579 |
|         | Sum:              | 8,504 | 819 | 4,579 |

|         |                        |        |       |        |
|---------|------------------------|--------|-------|--------|
| 11/2001 | 3 Post Workover Period | 8,308  | 1,170 | 4,473  |
| 12/2001 | 3 Post Workover Period | 6,094  | 1,209 | 3,281  |
| 01/2002 | 3 Post Workover Period | 4,532  | 1,147 | 2,441  |
|         | Sum:                   | 18,934 | 3,526 | 10,195 |

|  |      |        |        |        |
|--|------|--------|--------|--------|
|  | Sum: | 27,438 | 24,207 | 14,774 |
|--|------|--------|--------|--------|

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMSF 04202

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| 1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other  |  |  | 6. If Indian, Allottee or Tribe Name   |  |  |
| b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr.<br>Other _____  |  |  | 7. Unit or CA Agreement Name and No.   |  |  |
| 2. Name of Operator<br>CONOCO INC.   |  |  | Contact: DEBORAH MARBERRY<br>E-Mail: deborah.moore@usa.conoco.com            |  |  |
| 3. Address P.O. BOX 2197 DU 3066<br>HOUSTON, TX 77252  |  |  | 3a. Phone No. (include area code)<br>Ph: 281.293.1005                        |  |  |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br><br>At surface SWSW 1168FSL 1090FWL<br><br>At top prod interval reported below<br><br>At total depth   |  |  | 8. Lease Name and Well No.<br>JOHNSTON LS 6X                                 |  |  |
| 14. Date Spudded<br>04/18/1957   |  |  | 15. Date T.D. Reached<br>04/28/1957  |  |  |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>05/04/1957  |  |  | 9. API Well No.<br>30-045-07562  |  |  |
| 18. Total Depth: MD<br>TVD 5012  |  |  | 19. Plug Back T.D.: MD<br>TVD 4961   |  |  |
| 20. Depth Bridge Plug Set: MD<br>TVD   |  |  | 10. Field and Pool, or Exploratory<br>AZTEC PICTURED CLIFFS                  |  |  |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>CBL   |  |  | 11. Sec., T., R., M., or Block and Survey<br>or Area Sec 10 T28N R8W Mer NMP |  |  |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) |  |  | 12. County or Parish<br>SAN JUAN   |  |  |
|  |  |  | 13. State<br>NM  |  |  |
|  |  |  | 17. Elevations (DF, KB, RT, GL)*<br>6243 GL                                  |  |  |

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 13.250    | 10.750     | 32.7        |          | 241         |                      | 250                         |                   |             |               |
| 9.875     | 7.625      | 26.4        |          | 2666        |                      | 250                         |                   |             |               |
| 6.750     | 5.500      | 15.5        |          | 5009        |                      | 300                         |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.375 | 4744           |                   |      |                |                   |      |                |                   |

| Formation             | Top  | Bottom | Perforated Interval | Size  | No. Holes | Perf. Status |
|-----------------------|------|--------|---------------------|-------|-----------|--------------|
| AZTEC PICTURED CLIFFS | 2584 | 3516   | 2584 TO 3516        | 0.500 | 26        |              |
| B)                    |      |        |                     |       |           |              |
| C)                    |      |        |                     |       |           |              |
| D)                    |      |        |                     |       |           |              |

| Depth Interval | Amount and Type of Material                   |
|----------------|---|
| 2584 TO 3516   | FRAC W/1000 GALS HCL ACID, 99,792# 20/40 SAND |
|                |   |
|                |   |
|                |   |

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 10/08/2001          | 09/27/2001           | 24           | →               | 0.0     | 990.0   | 3.0       |                       |             | FLows FROM WELL   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
| 1/2                 | 150                  | 275.0        | →               |         |         |           |                       | GSI         |                   |

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #8142 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMSF 04202

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
JOHNSTON LS 6X

9. API Well No.  
30-045-07562

10. Field and Pool, or Exploratory  
OTERA CHACRA

11. Sec., T., R., M., or Block and Survey  
or Area Sec 10 T28N R8W Mer NMP

12. County or Parish  
SAN JUAN

13. State  
NM

17. Elevations (DF, KB, RT, GL)\*  
6243 GL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☒ No ☐ Yes (Submit analysis)

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Resvr.  
Other

2. Name of Operator  
CONOCO INC.

Contact: DEBORAH MARBERRY  
E-Mail: deborah.moore@usa.conoco.com

3. Address P.O. BOX 2197 DU 3066  
HOUSTON, TX 77252

3a. Phone No. (include area code)  
Ph: 281.293.1005

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface SWSW 1168FSL 1090FWL  
At top prod interval reported below  
At total depth

14. Date Spudded  
04/18/1957

15. Date T.D. Reached  
04/28/1957

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
05/04/1957

18. Total Depth: MD  
TVD 5012

19. Plug Back T.D.: MD  
TVD 4961

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CBL

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 13.250    | 10.750     | 32.7        |          | 241         |                      | 250                         |                   |             |               |
| 9.875     | 7.625      | 26.4        |          | 2666        |                      | 250                         |                   |             |               |
| 6.750     | 5.500      | 15.5        |          | 5009        |                      | 300                         |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |

24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.375 | 4744           |                   |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation       | Top  | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------------|------|--------|---------------------|------|-----------|--------------|
| A) OTERA CHACRA | 3516 | 3651   | 3516 TO 3651        |      | 33        |              |
| B)              |      |        |                     |      |           |              |
| C)              |      |        |                     |      |           |              |
| D)              |      |        |                     |      |           |              |

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material              |
|----------------|--|
| 3516 TO 3651   | FRAC W/99,560# 20/40 SAND & 65 Q N2 FOAM |
|                |  |
|                |  |
|                |  |

28. Production - Interval A

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 10/08/2001          | 10/03/2001           | 24           | →               | 0.0     | 528.0   | 0.0       |                       |             | FLOWS FROM WELL   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
| 1/2                 | 150                  | 275.0        | →               |         |         |           |                       | GSI         |                   |

28a. Production - Interval B

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #8154 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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Daily Summary

|              |              |  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
|--------------|--------------|--|----------|------------------------------|------------|------------------------|------------------|------------------|--------|----------------|-------------------|-----------------|------------------|---------|---|
| API          | 300450756200 | County   | SAN JUAN | State/Province               | NEW MEXICO | Surface Legal Location | NMPM-28N-9W-10-D | NS Dist. (ft)    | 1168.0 | NS Flag        | N                 | EW Dist. (ft)   | 1090.0           | EW Flag | W |
| KB Elev (ft) | 6243.00      | Ground Elev (ft)   | 6233.00  | Plug Back Total Depth (ftKB) | 4,961.0    | Spud Date              | 4/18/1957        | Rig Release Date |        | Latitude (DMS) | 36° 40' 20.496" N | Longitude (DMS) | 107° 46' 51.6" W |         |   |
| Start        |              | Ops This Rpt   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/13/2001    |              | Road rig to location. Spot rig. SDON   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/14/2001    |              | Safety mtg. Spot all equipment and rig up. 290 psi on csg/tbg. Bleed down csg. Kill tbg with 20 bbls KCL water. ND wellhead. Install BPV. NU BOPs. Test BOPs to 250/2000 psi (note 2M# wellhead). Pull BPV. SDON.  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/17/2001    |              | Safety mtg. 220 psi csg/tbg. Kill tbg w/ 10 bbls KCL water. POH w/ 158 jts 2 3/8" tbg (strap- 4922"). TIH w/ 120 jts and set 51/2" CIBP @ 3710'. Circulate and clean out hole w/ 90 bbls KCL water. Test csg integrity to 500 psi w/ rig pump, OK. POH w/ 120 jts tbg, LD setting tool. Replace 2- 2" csg valves on 5 1/2" head. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/18/2001    |              | Safety mtg. RU BlueJet and run CBL from 3706' to 2394'. TOC @ 3370'. Contact Craig Moody (Conoco Engineer). RIH with perf gun and shoot 3-3/4" squeeze holes @ 2660' (6' above 7 5/8" csg shoe) in 5 1/2" csg. POH with WL and RD BlueJet. RU and circulate 80 bbls 2% KCL water down 5 1/2" csg and up & 7 5/8" X 5 1/2" csg ann., this displaced old mud that was in ann. SION.  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/19/2001    |              | Safety mtg. Circulate 40 bbls 2% KCL water around and up 7 5/8" csg ann. till returns were clear. Safety mtg w/ crew and BJ cement crew. RU BJ. Test lines to 2500 psi. Pressure up Backside of pkr to 500 psi. Est inj rate @ 2 bpm w/ 360 psi. Mix & pump 72 bbls slurry of 12.5 ppg BJ Lite-High Strength cmt w/ 1.97 cuft/sx yield (205 sx). SD for 3 minutes to flush Pump and lines. Displaced w/ 13 bbls water Est 3 bbls inside 5 1/2" (ETOC @ 2534'). Approx 13 bbls cmt to surface, approx 10 bbls slipped down hole. RD BJ. SION (24 hrs before tag).   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/20/2001    |              | Safety mtg. Unseat haliburton 5 1/2" RTTS pkr. POOH w/ 26 jts. PU 4 3/4" bit, 6 DCs, and 26 jts tbg. Tag TOC @ 2547'. Drill out cement with 5 jts tbg. circulate clean @ 2704'. TIH with 32 jts tbg and tag CIBP @ 3710'. POOH with tbg and drill collars. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/21/2001    |              | Safety mtg. PU 1 jt tbg and Haliburton Tension pkr. RIH and set pkr 1jt down. WO Quadco. RU Quadco and test csg to 3000 psi, OK. Release pkr. RU BlueJet and Preforate Chacra formation as follows:Used 2 guns (3 1/8", 90 deg.PP, w/ 12 g 306T chgs @ .34"dia.). From 3651' to 3625' @ .5 spf, 14 holes. From 3550' to 3542' @ 1 spf, 9 holes. From 3525' to 3516' @ 1 spf, 10 holes. Total 33 holes. RD Bluejet. Prepare for frac. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/22/2001    |              | Safety mtg. RU Stinger wellhead isolation tool. RU BJ Frac equipment. Frac Chacra formation. Safety mtg. Set Pop-off valve @ 2800 psi. Est inj. Intital ISIP 155 psi. Pump 1000 gals 15% HCL acid and drop balls. Very little ball action noted w/ 1600 psi max press. Remove ball gun. Press test lines. Est Step rate 880 @ 24.5 bpm, 470 @ 9.9 bpm. ISIP- 120 psi. Pump 83 bbls pre-pad. Pump 5 stages of .5,1,2,3,4 pound sand w/ 65 Q N2 foam and place 99,560 lbs 20/40 Brady sand. Flushed @ 3.00 # at in-line densometer w/ 79 bbls - 0 overflush. Fluid to recover: 485 bbls. Si well till Monday.  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/24/2001    |              | Safety mtg. RU Bluejet. Attempt to set Composite BP, plug set in lubricator. RD lubricator and Ru new one. RIH w/CIBP and set @ 2710'. Unable to bleed down csg, believe CIBP leak. RIH and set second CIBP top of last one @2708'. Bled down csg. Test csg with rig pump, OK. RIH and perforate PC formation w/ 3 1/8", 90 deg PP, 12 g 306T chgs @ .34" dia.; From 2610' to 2592' @ .5 spf, 10 holes. From 2584' to 3516' @ .5 spf, 16 holes. Total of 26 holes. Safety mtg. RU BJ acid equipment. PT lines. Set Pop-off valve. Est. inj rate, formation BD @ 2000 psi, Intial ISIP- 370 psi. Pump 1000 gals. HCL acid w/ balls, flush w/ 2% KCL water. Good ball-out, ISIP-320 psi. Retreive balls. RD BlueJet. RD BJ acid equipment. RU Sting wellhead isolation tool. Safety mtg. PT lines to 4000 psi. Re-set pop-off valve to 2600 psi. Pump 150 bbls Pre-pad. Placed 99,792 # 20/40 Brady sand in 5 stages from .5 # to 4 #. Max press 1730 psi, Min press 1300 psi, Avg 1450 psi. Flush w/ 51 bbls foam, No overflush. Final ISIP - 1050 psi, 5 min - 955 psi. (no step rates due to high intial injection prssure). Post-Job safety mtg. RD BJ Frac equipment and Stinger. SION. |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/25/2001    |              | Safety mtg. 525 psi SICP. Flowback well (Csg side) thru 1/2" choke @ 95 psi. Lots of frac sand in initial returns. RU Universal gas compressor #400126.#7xxx. To late for Comp mechanic to arrive. Flow well overnight. L&R Drywatch worked the night. flowed @ 135 psi from 0200 till 0700 hrs. (calc'd @ 891 mcf/d). Liquids and sand slowed down to lite.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/26/2001    |              | Safety mtg. 155 psi SICP. TIH w/ 4 3/4" mill, 6 DCs, on 78 jts 2 3/8"tbg. Tag @ 2594'. Unload well @2552'. CO to 2645. LD 3 jts tbg. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/27/2001    |              | Safety mtg. 420 psi SICP/ 500 psi SITP. Set EOT @ 2552'. Flow test well. Pressures stablized @ FTP- 150 psi, SICP @ 275 psi thru 2" line w/ 1/2" choke for 4 hrs. (PC test calc'd @990 MCFD). No oil, 3 bbls fluid, no sand. Witnessed by J. Becksted and Genaro Maez. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 9/28/2001    |              | Safety mtg. bled well down. Kill tbg w/ 2 % KCL water. TIH tag fill @ 2635'. CO to 2710'. Mill out 1st CIBP. Push 2nd CIBP to 2770' (Lower CIBP had not set completely). POOH w/ 7 jts tbg. SION.  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 10/1/2001    |              | Safety mtg. 550 psi SICP/530 psi SITP. Bled down csg. Kill tbg. TIH w/ 26 jts tbg. Unload well @ 3425'. RU swivel and CO to 3608'. tooh w/ 32 jts tbg. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 10/2/2001    |              | Safety mtg. 550 psi SICP/520 psi SITP. Bled down csg. Kill Tbg w/ 2% KCL water. TIH and tag @ 3608'. CO to CIBP @ 3710'. POH w/ 39 jts. EOT @ 2550'. Flowtest combined PC/Chacra overnight.  |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 10/3/2001    |              | Safety mtg. 230 psi FTP w/ 1/2" choke (calc'd @ 1.518 mcf/d), dry gas only. 270 psi csg. Witnessed by Jon Becksted / Genaro Maez. Bled down well. Kill tbg TIH mill on CIBP @ 3710'. POOH w/ tbg and collars. Took 200 bbls to kill well for trip out. Replace mill and trip in w/ collars and 30 jts tbg. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 10/4/2001    |              | Safety mtg. Bled well down. Kill well w/ 100 bbls 2% KCL water. TIH w/ tbg. Tag CIBP @3710'. Mill out CIBP 1 hr. TIH w/ tbg. Tag fill @ 4919'. CO to 4947'. Solid cement like fill. Circulate clean. POH 76 jts. SION.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |
| 10/5/2001    |              | Safety mtg. 400 psi SITP/SICP. Bleed down csg. Kill tbg w/ 220 bbls 2% KCL water. POOH w/ tbg, LD DCs. TIH w/ 2 3/8" production tbg. Unload well @ 4733'. Flow well thought tbg w/ 1/2" choke overnight.   |          |                              |            |                        |                  |                  |        |                |                   |                 |                  |         |   |