

AMENDED

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33342  
Name: Blue Jay Operating LLC  
Address: 4916 Camp Bowie Blvd., Suite 204  
City/State/Zip: Fort Worth, TX 76107  
Purchaser: Cherokee Basin Pipeline LLC  
Operator Contact Person: Jens Hansen  
Phone: (817) 546-0034  
Contractor: Name: Cherokee Wells, LLC  
License: 33539  
Wellsite Geologist: NA

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc) was SIGW

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) was waiting on pipeline  Docket No. \_\_\_\_\_  
5/11/05 5/12/05 2/10/06  
Spud Date or 21 day of March 2006  
Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-205-26020-0000  
County: Wilson  
E2 SW4 SE4 \_\_\_\_\_ Sec. 27 Twp. 28 S. R. 14  East  West  
660' feet from S N (circle one) Line of Section  
1745' feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Holderman Well #: A-6  
Field Name: Cherokee Basin Coal Gas  
Producing Formation: See Perforating Record  
Elevation: Ground: 882' Kelly Bushing: NA  
Total Depth: 1227' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 41' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from bottom casing  
feet depth to surface w/ 130 \_\_\_\_\_ sx cmt.  
ALT II WITHIN 9-26-06

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No. APR 03 2006  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No. KCC WICHITA

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
Title: \_\_\_\_\_ Date: 3-21-06  
Subscribed and sworn to before me this 21 day of March 2006.  
Notary Public: Patricia Ann Culp  
Date Commission Expires: Oct 17, 2009

**KCC Office Use ONLY**  
DENY  
Letter of Confidentiality Received \_\_\_\_\_  
Wireline Log Received \_\_\_\_\_  
Geologist Report Received \_\_\_\_\_  
UIG Distribution \_\_\_\_\_  
Date: 10-18-05

Operator Name: Blue Jay Operating LLC Lease Name: Holderman Well #: A-6  
 Sec. 27 Twp. 28 S. R. 14  East  West County: Wilson

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

Driller's Log Enclosed

Submitted with SIGW ACO-1 7/12/05

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |                   |                           |                  |               |                  |              |                            |
|---|-------------------|---------------------------|------------------|---------------|------------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc.           |                   |                           |                  |               |                  |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./ Ft. | Setting Depth | Type of Cement   | # Sacks Used | Type and Percent Additives |
| Surface   | 12.25'            | 8 5/8"                    | 26#              | 41'           | Portland         | 8            |                            |
| Long String   | 6.75"             | 4.5"                      | 10.5             | 1220'         | Thick Set Cement | 130          | See Attached               |

| ADDITIONAL CEMENTING / SQUEEZE RECORD   |                  |                |             |                            |
|---|------------------|----------------|-------------|----------------------------|
| Purpose:                                | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate      |                  |                |             |                            |
| <input type="checkbox"/> Protect Casing |                  |                |             |                            |
| <input type="checkbox"/> Plug Back TD   |                  |                |             |                            |
| <input type="checkbox"/> Plug Off Zone  |                  |                |             |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|--|--|-------|
| 4              | 830'-832' - Mulky - 8 shots total  | Mav Foam carrying 8650 # 16/30 Brady Sand                                      |       |
| 4              | 893'-895' - Bevier 910'-913' Crowburg - 20 shots total                                 | Mav Foam carrying 15000 # 16/30 Brady Sand                                     |       |
|                |  | See Attached   |       |

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| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|------|--------|-----------|---|
|---------------|------|--------|-----------|---|

|   |   |
|---|---|
| Date of First, Resumerd Production, SWD or Enhr.<br>2/10/06 | Producing Method<br><input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |
|---|---|

|                                   |           |         |             |               |         |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|                                   |           | 20      | 50-75       |               |         |

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify) \_\_\_\_\_

# Charles Wells, LLC

4916 Camp Bowie Blvd. Ste. 200 - Fort Worth, TX 76107

Contractor License # 33539

817-546-0034/ TX Office; 817-296-6541/Jens Hansen Cell; 817-624-1374/FAX

620-763-2619/ KS Office; 620-432-6170/Jeff Kephart Cell; 620-763-2065/FAX

|                      |                           |                   |          |
|----------------------|---------------------------|-------------------|----------|
| Rig #:               | CW                        |                   |          |
| API #:               | 15-205-26020-0000         |                   |          |
| Operator:            | Blue Jay Operating LLC    |                   |          |
|                      | 4916 Camp Bowie Suite 204 |                   |          |
|                      | Fort Worth, TX 76107      |                   |          |
| Well #:              | A-6                       | Lease Name:       | Holdeman |
| Location:            | 660 ft. from S            | Line              |          |
|                      | 1745 ft. from E           | Line              |          |
| Spud Date:           | 5/11/2005                 |                   |          |
| Date Completed:      | 5/12/2005                 | TD:               | 1227     |
| Geologist:           |                           |                   |          |
| <b>Casing Record</b> | <b>Surface</b>            | <b>Production</b> |          |
| Hole Size            | 11"                       | 6 3/4"            |          |
| Casing Size          | 8 5/8"                    |                   |          |
| Weight               | 26#                       |                   |          |
| Setting Depth        | 41'                       |                   |          |
| Cement Type          | Portland                  |                   |          |
| Sacks                | 8 W                       |                   |          |
| Feet of Casing       | 41'                       |                   |          |
| Rig Time             | Work Performed            |                   |          |
|                      |                           |                   |          |
|                      |                           |                   |          |

|                       |      |       |
|-----------------------|------|-------|
| S 27                  | T 28 | R 14E |
| Location E2, SW4, SE4 |      |       |
| County: Wilson        |      |       |

| Gas Tests |                |         |            |
|-----------|----------------|---------|------------|
| Depth     | Pounds         | Orifice | flow - MCF |
| 325       | 2              | 1/8"    | 3.92       |
| 754       | Gas Check Same |         |            |
| 854       | 2              | 1/4"    | 12.7       |
| 904       | 6              | 1/4"    | 22.9       |
| 954       | 8              | 1/4"    | 27         |
| 1004      | 5 1/2          | 3/8"    | 46.4       |
| 1127      | Gas Check Same |         |            |

## Well Log

| Top | Bottom | Formation            | Top | Bottom | Formation      | Top  | Bottom | Formation     |
|-----|--------|----------------------|-----|--------|----------------|------|--------|---------------|
| 0   | 9      | Overburden           | 502 | 565    | lime           | 821  | 827    | lime          |
| 9   | 53     | shale                | 565 | 570    | shale          | 827  | 833    | mulky         |
| 53  | 56     | lime                 | 570 | 624    | lime           | 833  | 835    | lime          |
| 56  | 92     | shale                | 624 | 630    | shale          | 835  | 883    | shale         |
| 92  | 140    | lime                 | 630 | 641    | lime           | 883  | 884    | coal          |
| 140 | 193    | shale                | 641 | 667    | shale          | 884  | 892    | sand/ shale   |
| 193 | 222    | lime                 | 667 | 679    | sand- oil odor | 892  | 894    | coal          |
| 222 | 234    | shale                | 679 | 721    | sand- no show  | 894  | 937    | sand/ shale   |
| 234 | 235    | coal                 | 721 | 739    | sand/ shale    | 937  | 938    | coal          |
| 235 | 257    | sand- oil            | 739 | 743    | lime           | 938  | 989    | shale         |
| 257 | 271    | sand- no show        | 743 | 744    | coal           | 989  | 990    | coal          |
| 271 | 309    | sand/ shale          | 744 | 747    | shale          | 990  | 1017   | sand/ shale   |
| 309 | 412    | lime- a lot of water | 747 | 768    | pink lime      | 1017 | 1028   | sand- no show |
| 412 | 457    | shale                | 768 | 800    | shale          | 1028 | 1035   | sand/ shale   |
| 457 | 496    | lime                 | 800 | 814    | oswego lime    | 1035 | 1036   | coal          |
| 496 | 502    | shale                | 814 | 821    | summit         | 1036 | 1079   | sand/ shale   |

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CONSOLIDATED OIL WELL SERVICES, INC.  
 211 W. 14TH STREET, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 3893  
 LOCATION EUREKA  
 FOREMAN KEVIN MCCOY

TREATMENT REPORT & FIELD TICKET  
 CEMENT

| DATE   | CUSTOMER #   | WELL NAME & NUMBER | SECTION   | TOWNSHIP | RANGE  | COUNTY |
|--|--------------|--------------------|-----------|----------|--------|--------|
| 5-13-05  |              | Holdeman A-6       | 27        | 28S      | 14E    | WILSON |
| CUSTOMER<br>Blue Jay Operating                   |              |                    | Gus Jones |          |        |        |
| MAILING ADDRESS<br>4916 Camp Bowie Blvd. Ste 204 |              |                    |           |          |        |        |
| CITY<br>FORTWORTH                                | STATE<br>TX. | ZIP CODE<br>76107  |           |          |        |        |
| TRUCK #  |              |                    |           |          |        |        |
| DRIVER   |              |                    | TRUCK #   |          | DRIVER |        |
| 445  |              |                    | ALAN      |          |        |        |
| 439  |              |                    | JUSTIN    |          |        |        |
|  |              |                    |           |          |        |        |
|  |              |                    |           |          |        |        |

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1227' CASING SIZE & WEIGHT 4 1/2 10.5" NEW  
 CASING DEPTH 1220' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.4 # SLURRY VOL 39 BBL WATER gal/sk 8.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 19.4 BBL DISPLACEMENT PSI 700 ~~MAX~~ PSI 1300 Bump Plug RATE

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. BREAK CIRCULATION w/ 20 BBL Fresh water, Pump 4 sks Gel Flush, 15 BBL Fresh water, 10 BBL Dye water. Mixed 130 sks Thick Set Cement w/ 5" Kol-Seal per/sk @ 13.4 # per/gal yield 1.69. Wash out Pump & Lines. Shut down. Release Plug. Displace w/ 19.4 BBL Fresh water. Final Pumping Pressure 700 PSI. Bump Plug to 1300 PSI. Wait 2 minutes. Release Pressure. Float Held. Shut casing in @ 0 PSI. Good Cement Returns to SURFACE = 7 BBL Slurry. Job Complete. Rig down.

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL            |
|--------------|-------------------|------------------------------------|-----------------|------------------|
| 5401         | 1                 | PUMP CHARGE                        | 765.00          | 765.00           |
| 5406         | 60                | MILEAGE                            | 2.50            | 150.00           |
| 1126 A       | 130 SKS           | THICK SET CEMENT                   | 13.00           | 1690.00          |
| 1110 A       | 13 SKS            | KOL-SEAL 5" per/sk                 | 16.90           | 219.70           |
| 1118 A       | 4 SKS 50"         | Gel Flush                          | 6.63            | 26.52            |
| 5407         | 7.15 TONS         | Ton Mileage                        | M/C             | 240.00           |
| 4404         | 1                 | 4 1/2 Top Rubber Plug              | 38.00           | 38.00            |
| 4156         | 1                 | 4 1/2 Flapper Valve Float Shoe     | 123.00          | 123.00           |
| 4129         | 1                 | 4 1/2 Centralizer                  | 28.00           | 28.00            |
|              |                   |                                    | Sub total       | 3280.22          |
| Thank you    |                   |                                    | 6.3%            | SALES TAX 133.89 |
|              |                   |                                    | ESTIMATED TOTAL | 3414.11          |

AUTHORIZATION Bob McCoy

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

*Blue Jay Oper.*  
WELL ENGINEERING DRILLING REPORT

DATE: 5-13-05  
RIG: Cherokee Wells  
SUPV:

WELL NAME: HOLDMAN A/B

RPT TIME: 8:00 AM

POOL: \_\_\_\_\_ SEC. 27 TW 28  
PROJECT # \_\_\_\_\_ API# \_\_\_\_\_  
AFE Cost \_\_\_\_\_ Dry Hole Cost = \_\_\_\_\_

RANGE 74  
County: DC, KS State: KS  
Csg Hole Cost = \_\_\_\_\_

DEPTH \_\_\_\_\_ DAYS 3 FOOTAGE MADE \_\_\_\_\_ HRS DRLC \_\_\_\_\_

PRESENT OPERATIONS:

24 HR SUMMARY \_\_\_\_\_

24 FORECAST \_\_\_\_\_

Bit Wt: \_\_\_\_\_ RPM \_\_\_\_\_ Torque: \_\_\_\_\_ ft/lb \_\_\_\_\_

| AIR COMPRESSOR |       |    |     |     |          | SURVEYS |       |      | Stats           |                |
|----------------|-------|----|-----|-----|----------|---------|-------|------|-----------------|----------------|
| Make           | Model | HP | CFM | RPM | Pressure | Depth   | Angle | Dir. | Spud Time:      | Date:          |
|                |       |    |     |     |          |         |       |      | <u>11:30 AM</u> | <u>5-11-05</u> |
|                |       |    |     |     |          |         | deg.  |      | KB Elev.:       |                |
|                |       |    |     |     |          |         | deg.  |      | G.L. Elev.:     | <u>882'</u>    |

| Bit No. | Size | Make | Type | Ser.No. | Jets | In | Out | FTG | Hrs. | API Grade |
|---------|------|------|------|---------|------|----|-----|-----|------|-----------|
|         |      |      |      |         |      |    |     |     |      |           |
|         |      |      |      |         |      |    |     |     |      |           |
|         |      |      |      |         |      |    |     |     |      |           |

| Last Csg. Size: <u>8 5/8</u> |  |  |  | Set @: <u>40</u> ft.   |  |  |  | Burst: _____   |              |              |       | COSTS        |  |  |  |
|------------------------------|--|--|--|------------------------|--|--|--|----------------|--------------|--------------|-------|--------------|--|--|--|
| Next Csg. Size: <u>1 1/2</u> |  |  |  | Set @: <u>1220</u> ft. |  |  |  | Code           | Items        | Previous     | Daily | Cum.         |  |  |  |
| DP                           |  |  |  |                        |  |  |  | Location/Roads | <u>1000</u>  |              |       | <u>1000</u>  |  |  |  |
| DC                           |  |  |  |                        |  |  |  | Rig-Footage    | <u>9816</u>  |              |       | <u>9816</u>  |  |  |  |
|                              |  |  |  |                        |  |  |  | Rig-Daywork    |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Water          |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Frac Tanks     |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Mud & Chem.    |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Rental Tools   |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Cement & Ser.  | <u>80</u>    | <u>3414</u>  |       | <u>3494</u>  |  |  |  |
|                              |  |  |  |                        |  |  |  | Open Hole Log  |              | <u>1600</u>  |       | <u>1600</u>  |  |  |  |
|                              |  |  |  |                        |  |  |  | Trucking       |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Contract Sup.  | <u>700</u>   | <u>700</u>   |       | <u>1400</u>  |  |  |  |
|                              |  |  |  |                        |  |  |  | Casing Crew    |              | <u>650</u>   |       | <u>650</u>   |  |  |  |
|                              |  |  |  |                        |  |  |  | Miscellaneous  |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Casing Prod.   |              | <u>8214</u>  |       | <u>8214</u>  |  |  |  |
|                              |  |  |  |                        |  |  |  | Surf Casing    | <u>600</u>   |              |       | <u>600</u>   |  |  |  |
|                              |  |  |  |                        |  |  |  | Cement Equip.  |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Wellhead       |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | B.O.P.         |              |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Prev.          | <u>12196</u> |              |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Day Total      |              | <u>14578</u> |       |              |  |  |  |
|                              |  |  |  |                        |  |  |  | Cum.:          |              |              |       | <u>26774</u> |  |  |  |

| HRS         | Comments   |
|-------------|--|
| <u>7:20</u> | <u>Set rig</u>                                   |
| <u>7:45</u> | <u>10H</u>                                       |
| <u>8:15</u> | <u>ROD</u>                                       |
| <u>9:30</u> | <u>MIRU Superior Wireline Ser. Log Well</u>      |
|             | <u>MIRU Gus Jones Well Ser. Run 29 ft @ 2</u>    |
|             | <u>4 1/2 10.5" casing, land at 1220.</u>         |
|             | <u>MIRU C.T.S. to Cmt. Well, Break</u>           |
|             | <u>Circulation w/ gel thughr. Mix &amp; Pump</u> |
|             | <u>130 lbs Thickstet Cmt. 3 RPM, 13.4 HP</u>     |
|             | <u>700# Pump Plug at 1300' Ch. Foot</u>          |
|             | <u>OK. Circulate 7 Bobs Cmt. to pit.</u>         |
|             | <u>ROD</u>                                       |

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**MAVERICK**  
**STIMULATION COMPANY, LLC**

12701 ENERGY RD · FT. MORGAN, CO. 80701 · PH (970) 867-2766 · FAX (970) 867-6622

**BLUE JAY OPERATING - FORT WORTH, TEXAS**  
**Coal Seam Frac Project**

January 3, 2006

**Blue Jay - Holdeman A-6 B**

Mulky (830'-832', 4 spf), 8 shots total.

Started with pump-in of 462 gal gelled water. Followed with 500 gals of 7.5% HCl. Followed with 252 gal gelled water flush. Started treatment with a pad of 4340 gallons of MavFoam C70, followed by 5300 gals of MavFoam C70 carrying 8650 lbs 16/30 Brady Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 554 gal gelled water. A total of 128,000 SCF of N<sub>2</sub> was used.

Started pump-in STP-389, BH-416. Started acid @ 3.5 bpm, STP-694, BH-1027. Started Flush, STP-711, BH-1058. Started Pad, STP-731, BH-1060. Initial FQ was 63. Sand stages were as follows: Started 1#, STP-919, BH-984, FQ-72. Started 2#, STP-1123, BH-1149, FQ-78. Started 3#, STP-1056, BH-1133, FQ-75. Started Flush, STP-1048, BH-1073, FQ-75. Pad through sand stages were pumped @ 15 to 19 BPM downhole. FQ averaged 74Q. Max pressure was 1178 psi. Average rate was 17 bpm at 1073 psi surface (1086 psi bottomhole). ISIP was 561 psi; 5 min - 475 psi, 10 min - 461 psi, 15 min - 451 psi.

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**MAVERICK**  
**STIMULATION COMPANY, LLC**

12701 ENERGY RD · FT. MORGAN, CO. 80701 · PH (970) 867-2766 · FAX (970) 867-5922

**BLUE JAY OPERATING - FORT WORTH, TEXAS**  
**Coal Seam Frac Project**

January 3, 2006

**Blue Jay - Holdeman A-6 A**

Bevier (893'-895', 4 spf), Crowburg (910'-913', 4 spf), 20 shots total.

Started with 500 gals of 7.5% HCl. Followed with 378 gal gelled water flush. Started treatment with a pad of 4942 gallons of MavFoam C70, followed by 7990 gals of MavFoam C70 carrying 15000 lbs 16/30 Brady Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 596 gal gelled water, and over flushed with 84 gal gelled water. A total of 106,000 SCF of N<sub>2</sub> was used.

Formation broke down at 1936. Started acid @ 3.5 bpm, STP-14, BH-42. Started Flush, STP-386, BH-402. Started Pad, STP-750, BH-1017. Initial FQ was 82. Sand stages were as follows. Started 1#, STP-833, BH-896, FQ-71. Started 2#, STP-859, BH-959, FQ-70. Started 3#, STP-870, BH-968, FQ-72. Started Flush, STP-773, BH-1001, FQ-72. Pad through sand stages were pumped @ 15 to 20 BPM downhole. FQ averaged 71Q. Max pressure was 1936 psi. Average rate was 18 bpm at 867 psi surface (960 psi bottomhole). ISIP was 494 psi; 5 min - 401 psi, 10 min - 378 psi, 15 min - 362 psi.

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