

ORIGINAL

**AMENDED**  
KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

**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: Shannan Shinkle  
Phone: ( 620 ) 378-3650  
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)

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.?) ☐ Docket No. \_\_\_\_\_

3/11/05 3/15/05 5/31/05  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 205-25922-0000  
County: Wilson  
NE NE Sec. 2 Twp. 30 S. R. 14 ☒ East ☐ West  
660' feet from S N (circle one) Line of Section  
660' feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW  
Lease Name: Tharp Well #: A-1

Field Name: Cherokee Basin Coal Gas Area

Producing Formation: See Perforating Record

Elevation: Ground: 930' Kelly Bushing: NA

Total Depth: 1322' 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/ 140 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used Pump

Location of fluid disposal if hauled offsite:

Operator Name: Rick's Tank Truck Service

Lease Name: Sheets Lease A-1 License No.: 17648-0

Quarter NE4 Sec. 11 Twp. 28N S. R. 13 ☒ East ☐ West

County: Washington, OK Docket No.: 826163

**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: Shannan Shinkle  
Title: Administrative Assistant Date: 8/10/07

Subscribed and sworn to before me this 10 day of August

20 07

Notary Public: Tracy Miller  
Date Commission Expires: 12/1/2010  
My Appt. Expires 12/1/2010

**KCC Office Use ONLY**

☒ Letter of Confidentiality Received  
If Denied, Yes ☐ Date: \_\_\_\_\_  
☐ Wireline Log Received  
☐ Geologist Report Received  
☐ UIC Distribution

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CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Blue Jay Operating, LLC Lease Name: Tharp Well #: A-1  
 Sec. 2 Twp. 30 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:

High Resolution Compensated Density  
 Neutron Log  
 Bond Log

☒ Log Formation (Top), Depth and Datum ☐ Sample  
 Name Top Datum  
 Driller Log Enclosed

### CASING RECORD ☒ New ☐ 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            |                            |
| Production        | 6.75"             | 4 1/2"                    | 10.5              | 1310'         | Thick Set      | 140          | See Attached               |
|                   |                   |                           |                   |               |                |              |                            |

### ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose:           | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|--------------------|------------------|----------------|-------------|----------------------------|
| ___ Perforate      |                  |                |             |                            |
| ___ Protect Casing |                  |                |             |                            |
| ___ Plug Back TD   |                  |                |             |                            |
| ___ Plug Off Zone  |                  |                |             |                            |

| Shots Per Foot                                             | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used)                                                                                        | Depth                             |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 4                                                          | Mulky - 914'-918'                                                                         | Mulky Foam Frac: 12000# 16/30 sand                                                                                                                                       |                                   |
| 4                                                          | Bevier 957'-959'; Croweburg 977'-979'                                                     | Bevier / Croweburg Foam Frac: 9940# 16/30 sand                                                                                                                           |                                   |
| 4                                                          | Flemming 1017'-1019'; Scamman 1064'-1068'                                                 | Flemming / Scamman Foam Frac: 12000# 16/30                                                                                                                               |                                   |
|                                                            |                                                                                           |                                                                                                                                                                          |                                   |
|                                                            |                                                                                           |                                                                                                                                                                          |                                   |
| TUBING RECORD                                              |                                                                                           | Liner Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                            |                                   |
| Size Set At Packer At                                      |                                                                                           |                                                                                                                                                                          |                                   |
| Date of First, Resumerd Production, SWD or Enhr.<br>6/1/05 |                                                                                           | Producing Method <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 METHOD OF COMPLETION

☐ Vented ☒ Sold ☐ Used on Lease  
 (If vented, Submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled  
☐ Other (Specify) \_\_\_\_\_

Production Interval

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CONSERVATION DIVISION  
 WICHITA, KS

# Cherokee 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

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|                 |                           |                       |       |                 |                |         |            |            |
|-----------------|---------------------------|-----------------------|-------|-----------------|----------------|---------|------------|------------|
| Rig #:          | CW                        |                       |       | S 2             | T 30           | R 14    |            |            |
| API #:          | 15-205-25922 - 00 - 00    |                       |       | Location NE, NE |                |         |            |            |
| Operator:       | Blue Jay Operating LLC    |                       |       | County: Wilson  |                |         |            |            |
|                 | 4916 Camp Bowie Suite 204 |                       |       |                 |                |         |            |            |
|                 | Fort Worth, TX 76107      |                       |       |                 |                |         |            |            |
| Well #:         | 1                         | Lease Name:           | Tharp | Depth           | Pounds         | Orifice | flow - MCF |            |
| Location:       | 660                       | ft. from (N / S) Line |       | 500             | No Flow        |         |            |            |
|                 | 660                       | ft. from (E / W) Line |       | 525             | No Flow        |         |            |            |
| Spud Date:      | 3/11/2005                 |                       |       | 927             | 3#             | 1/8"    | 4.84       |            |
| Date Completed: | 3/15/2005 TD: 1322        |                       |       | 977             | 4#             | 1/4"    | 18.5       |            |
| Geologist:      |                           |                       |       | 1027            | Gas Check Same |         |            |            |
| Casing Record   | Surface                   | Production            |       | 1077            | Gas Check Same |         |            |            |
| Hole Size       | 11"                       | 6 3/4"                |       | 1127            | Gas Check Same |         |            |            |
| Casing Size     | 8 5/8"                    |                       |       | 1177            | Gas Check Same |         |            |            |
| Weight          | 26#                       |                       |       |                 |                |         |            |            |
| Setting Depth   | 41'                       |                       |       |                 |                |         |            |            |
| Cement Type     | Portland                  |                       |       |                 |                |         |            |            |
| Sacks           | 8 W                       |                       |       |                 |                |         |            |            |
| Feet of Casing  | 41' C                     |                       |       |                 |                |         |            |            |
| Rig Time        | Work Performed            |                       |       |                 |                |         |            |            |
|                 |                           |                       |       |                 |                |         |            |            |
|                 |                           |                       |       |                 |                |         |            |            |
|                 |                           |                       |       |                 |                |         |            |            |
| Well Log        |                           |                       |       |                 |                |         |            |            |
| Top             | Bottom                    | Formation             | Top   | Bottom          | Formation      | Top     | Bottom     | Formation  |
| 0               | 11                        | soil/clay             | 481   | 486             | lime           | 910     | 917        | Mulky coal |
| 11              | 18                        | lime                  | 486   | 519             | sand/shale     | 917     | 920        | lime       |
| 18              | 27                        | shale                 | 519   | 520             | coal           | 920     | 960        | shale      |
| 27              | 148                       | lime                  | 520   | 528             | shale          | 960     | 961        | coal       |
| 148             | 253                       | shale                 | 528   | 594             | lime           | 961     | 1012       | shale      |
| 253             | 277                       | sand                  | 594   | 624             | shale          | 1012    | 1013       | coal       |
| 253             | 277                       | wet                   | 624   | 625             | coal           | 1013    | 1057       | sand/shale |
| 277             | 283                       | sand/shale            | 625   | 674             | shale          | 1057    | 1059       | coal       |
| 283             | 320                       | sand                  | 674   | 698             | lime           | 1059    | 1087       | shale      |
| 283             | 320                       | wet                   | 698   | 738             | shale          | 1087    | 1121       | sand       |
| 320             | 383                       | shale                 | 738   | 772             | sand           | 1087    | 1121       | oil        |
| 383             | 398                       | sand                  | 772   | 802             | sand/shale     | 1121    | 1122       | coal       |
| 383             | 398                       | oil                   | 802   | 838             | lime           | 1122    | 1128       | sand/shale |
| 398             | 476                       | lime                  | 838   | 878             | lime           | 1122    | 1128       | odor       |
| 476             | 477                       | coal                  | 878   | 888             | shale          | 1128    | 1173       | sand       |
| 477             | 481                       | shale                 | 888   | 910             | lime           | 1128    | 1173       | water      |

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CONSERVATION DIVISION  
WICHITA, KS

[illegible]

**Notes:**

**05LC-031505-CW-006-Tharp 1 Blue Jay Operating**

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WICHITA, KS

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

12701 ENERGY RD · FT. MORGAN, CO. 80701 · PH (970) 887-2788 · FAX (970) 887-5922

15-205-25922-00-00

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

May 31, 2005

**Blue Jay - Tharp A#1 - Stage #1**

Flemming (1017'-1019', 4 spf), Scamman (1064'-1068', 4 spf), 24 shots total.

Started with 500 gals of 7.5% HCl. Followed with 546 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 6000 gals of MavFoam C70 carrying 12000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 680 gal gelled water, then overflushed by 84 gal. A total of 153,000 SCF of N<sub>2</sub> was used.

Started acid @ 11 bpm, STP-0, BH-41. Started Flush, STP-0, BH-41. Formation broke down at 2106 psi. Started Pad, STP-836, BH-1139. Initial FQ was 56. Sand stages are as follows: Start 1#, STP-1338, BH-1423, FQ-71. Start 2#, STP-1352, BH-1472, FQ-72. Start 3#, STP-1371, BH-1520, FQ-72. Start Flush, STP-1382, BH-1545, FQ-72. Pad through sand stages were pumped @ 15-18 BPM downhole. FQ averaged 72Q. Max pressure was 2106. Average rate was 18 bpm at 1371 psi surface (1518 psi bottomhole). ISIP was 871 psi; 5 min - 786 psi, 10 min - 767 psi, 15 min - 756 psi.

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

12701 ENERGY RD • FT. MORGAN, CO. 80701 • PH (970) 887-2768 • FAX (970) 887-6922

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

May 31, 2005

**Blue Jay - Tharp A#1 - Stage #2**

Bevier (957'-959', 4 spf), Crowburg (977'-979', 4 spf), 16 shots total.

9440 Started pump in with 105 gals gelled water, followed with 500 gals of 7.5% HCl. Followed with 588 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 5240 gals of MavFoam C70 carrying ~~12000~~ 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 638 gal gelled water, then overflushed by 84 gal. A total of 124,000 SCF of N<sub>2</sub> was used.

Started pump in, formation broke down at 3153 psi. Started acid @ 4 bpm, STP-2531, BH-2683. Started Flush, STP-2331, BH-2459. Formation broke down at 2620 psi. Started Pad, STP-1224, BH-1591. Initial FQ was 51. Sand stages are as follows: Start 1#, STP-1262, BH-1326, FQ-71. Start 2#, STP-1318, BH-1425, FQ-70. Start 3#, STP-1370, BH-1494, FQ-71. Start Flush, STP-1360, BH-1569, FQ-71. Pad through sand stages were pumped @ 15-20 BPM downhole. FQ averaged 71Q. Max pressure was 3153. Average rate was 19 bpm at 1319 psi surface (1424 psi bottomhole). ISIP was 765 psi; 5 min - 623 psi, 10 min - 585 psi, 15 min - 560 psi.

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# MAVERICK

## STIMULATION COMPANY, LLC

12701 ENERGY RD · FT. MORGAN, CO. 80701 · PH (970) 887-2766 · FAX (970) 887-5922

### BLUE JAY OPERATING - FORT WORTH, TEXAS

#### Coal Seam Frac Project

May 31, 2005

#### Blue Jay - Tharp A#1 - Stage #2

Mulky (914'-918', 4 spf), 16 shots total.

Started pump in with 399 gals gelled water, followed with 500 gals of 7.5% HCl. Followed with 697 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 6000 gals of MavFoam C70 carrying 12000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 609 gal gelled water. A total of 144,000 SCF of N<sub>2</sub> was used.

Started pump in, formation broke down at 3874 psi. Started acid @ 2 bpm, STP-3613, BH-3671. Started Flush, STP-2564, BH-2868. Formation broke down at 3874 psi. Started Pad, STP-1182, BH-1476. Initial FQ was 58. Sand stages are as follows: Start 1#, STP-1410, BH-1457, FQ-73. Start 2#, STP-1419, BH-1521, FQ-71. Start 3#, STP-1414, BH-1513, FQ-72. Start Flush, STP-1318, BH-1537, FQ-71. Pad through sand stages were pumped @ 15-23 BPM downhole. FQ averaged 71Q. Max pressure was 3874. Average rate was 21 bpm at 1407 psi surface (1509 psi bottomhole). ISIP was 783 psi; 5 min - 625 psi, 10 min - 580 psi, 15 min - 550 psi.

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2878

FOREMAN *Kevin McCoy*

## CEMENT

Note: 3-18-05 RAN 1" Tubing down ANNULUS of 4½ CASING. TAG Firm Cement @ 186' Below G.L. Top off with 20 SKS Cement. Pull 1" Tubing.

AUTHORIZATION WAC 11-1-11 TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
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WICHITA, KS



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**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

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)

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.?) ☐ Docket No. \_\_\_\_\_

|                   |                 |                    |
|-------------------|-----------------|--------------------|
| 3/11/05           | 3/15/05         | 5/31/05            |
| Spud Date or      | Date Reached TD | Completion Date or |
| Recompletion Date |                 | Recompletion Date  |

API No. 15 - 205-25922-0000  
County: Wilson  
NE, NE, Sec. 2 Twp. 30 S. R. 14 ☒ East ☐ West  
660' feet from S N (circle one) Line of Section  
660' feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW S  
Lease Name: Tharp Well #: 1

Field Name: Cherokee Basin Coal Gas  
Producing Formation: See Perforating Record  
Elevation: Ground: 930' Kelly Bushing: NA  
Total Depth: 1322' 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/ 140 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) *ALT II WITH 8-27-07*  
Chloride content: NA ppm Fluid volume: \_\_\_\_\_ bbls  
Dewatering method used Pump  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Rick's Tank Truck Service  
Lease Name: Sheets Lease A-1 License No.: 17648-0  
Quarter NE4 Sec. 11 Twp. 28N S. R. 13 ☒ East ☐ West  
County: Washington, OK Docket No.: 826163

**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: \_\_\_\_\_  
Title: \_\_\_\_\_ Date: 7-11-05  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_

20 \_\_\_\_\_  
Notary Public: \_\_\_\_\_  
Date Commission Expires: \_\_\_\_\_

**KCC Office Use ONLY**

☒ Letter of Confidentiality Received  
If Denied, Yes ☒ Date: 7-21-05  
☐ Wireline Log Received  
☐ Geologist Report Received  
☐ UIC Distribution

15-205-25922-00-00  
Side Two

Operator Name: Blue Jay Operating, LLC Lease Name: Tharp Well #: 1  
Sec. 20 Twp. 30 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:

High Resolution Compensated Density/Neutron  
Log  
Bond Log

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum  
Driller Log Enclosed

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| 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            |                            |
| Production                                                                          | 6.75"             | 4 1/2"                    | 10.5              | 1310'         | Thick Set      | 140          | 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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth |
|----------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|
| 4              | Mulky - 914'-918'                                                                         | Mulky Foam Frac: 12000# 16/30 sand                                                |       |
| 4              | Bevier 957'-959";Crowburg 977'-979'                                                       | Bevier/Crowburg Foam Frac: 9940 # 16/30 sand                                      |       |
| 4              | Flemming 1017'-1019";Scamman 1064'-1068'                                                  | Flemming/Scamman Foam Frac: 12000# 16/30                                          |       |
|                |                                                                                           |                                                                                   |       |
|                |                                                                                           |                                                                                   |       |

| TUBING RECORD                                              |           | Size                                                                                                                                                                     | Set At      | Packer At     | Liner Run | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------|---------------------------------------------------------------------|
| Date of First, Resumerd Production, SWD or Enhr.<br>6/1/05 |           | Producing Method <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 ☐ Other (Specify) \_\_\_\_\_ Production Interval \_\_\_\_\_

# Cherokee 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

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|                 |                           |                       |       |                  |                |         |            |            |
|-----------------|---------------------------|-----------------------|-------|------------------|----------------|---------|------------|------------|
| Rig #:          | CW                        |                       |       | S 2              | T 30           | R 14    |            |            |
| API #:          | 15-205-25922 - 00-00      |                       |       | Location NE, NE  |                |         |            |            |
| Operator:       | Blue Jay Operating LLC    |                       |       | County: Wilson   |                |         |            |            |
|                 | 4916 Camp Bowie Suite 204 |                       |       |                  |                |         |            |            |
|                 | Fort Worth, TX 76107      |                       |       |                  |                |         |            |            |
|                 |                           |                       |       | <b>Gas Tests</b> |                |         |            |            |
| Well #:         | 1                         | Lease Name:           | Tharp | Depth            | Pounds         | Orifice | flow - MCF |            |
| Location:       | 660                       | ft. from (N / S) Line |       | 500              | No Flow        |         |            |            |
|                 | 660                       | ft. from (E / W) Line |       | 525              | No Flow        |         |            |            |
| Spud Date:      | 3/11/2005                 |                       |       | 927              | 3#             | 1/8"    | 4.84       |            |
| Date Completed: | 3/15/2005 TD: 1322        |                       |       | 977              | 4#             | 1/4"    | 18.5       |            |
| Geologist:      |                           |                       |       | 1027             | Gas Check Same |         |            |            |
| Casing Record   | Surface                   | Production            |       | 1077             | Gas Check Same |         |            |            |
| Hole Size       | 11"                       | 6 3/4"                |       | 1127             | Gas Check Same |         |            |            |
| Casing Size     | 8 5/8"                    |                       |       | 1177             | Gas Check Same |         |            |            |
| Weight          | 26#                       |                       |       |                  |                |         |            |            |
| Setting Depth   | 41'                       |                       |       |                  |                |         |            |            |
| Cement Type     | Portland                  |                       |       |                  |                |         |            |            |
| Sacks           | 8 W                       |                       |       |                  |                |         |            |            |
| Feet of Casing  | 41' C                     |                       |       |                  |                |         |            |            |
|                 |                           |                       |       |                  |                |         |            |            |
| Rig Time        | Work Performed            |                       |       |                  |                |         |            |            |
|                 |                           |                       |       |                  |                |         |            |            |
|                 |                           |                       |       |                  |                |         |            |            |
|                 |                           |                       |       |                  |                |         |            |            |
| <b>Well Log</b> |                           |                       |       |                  |                |         |            |            |
| Top             | Bottom                    | Formation             | Top   | Bottom           | Formation      | Top     | Bottom     | Formation  |
| 0               | 11                        | soil/clay             | 481   | 486              | lime           | 910     | 917        | Mulky coal |
| 11              | 18                        | lime                  | 486   | 519              | sand/shale     | 917     | 920        | lime       |
| 18              | 27                        | shale                 | 519   | 520              | coal           | 920     | 960        | shale      |
| 27              | 148                       | lime                  | 520   | 528              | shale          | 960     | 961        | coal       |
| 148             | 253                       | shale                 | 528   | 594              | lime           | 961     | 1012       | shale      |
| 253             | 277                       | sand                  | 594   | 624              | shale          | 1012    | 1013       | coal       |
| 253             | 277                       | wet                   | 624   | 625              | coal           | 1013    | 1057       | sand/shale |
| 277             | 283                       | sand/shale            | 625   | 674              | shale          | 1057    | 1059       | coal       |
| 283             | 320                       | sand                  | 674   | 698              | lime           | 1059    | 1087       | shale      |
| 283             | 320                       | wet                   | 698   | 738              | shale          | 1087    | 1121       | sand       |
| 320             | 383                       | shale                 | 738   | 772              | sand           | 1087    | 1121       | oil        |
| 383             | 398                       | sand                  | 772   | 802              | sand/shale     | 1121    | 1122       | coal       |
| 383             | 398                       | oil                   | 802   | 838              | lime           | 1122    | 1128       | sand/shale |
| 398             | 476                       | lime                  | 838   | 878              | lime           | 1122    | 1128       | odor       |
| 476             | 477                       | coal                  | 878   | 888              | shale          | 1128    | 1173       | sand       |
| 477             | 481                       | shale                 | 888   | 910              | lime           | 1128    | 1173       | water      |







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

May 31, 2005

**Blue Jay - Tharp A#1 - Stage #2**

Mulky (914'-918', 4 spf), 16 shots total.

Started pump in with 399 gals gelled water, followed with 500 gals of 7.5% HCl. Followed with 697 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 6000 gals of MavFoam C70 carrying 12000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 609 gal gelled water. A total of 144,000 SCF of N<sub>2</sub> was used.

Started pump in, formation broke down at 3874 psi. Started acid @ 2 bpm, STP-3613, BH-3671. Started Flush, STP-2564, BH-2868. Formation broke down at 3874 psi. Started Pad, STP-1182, BH-1476. Initial FQ was 58. Sand stages are as follows: Start 1#, STP-1410, BH-1457, FQ-73. Start 2#, STP-1419, BH-1521, FQ-71. Start 3#, STP-1414, BH-1513, FQ-72. Start Flush, STP-1318, BH-1537, FQ-71. Pad through sand stages were pumped @ 15-23 BPM downhole. FQ averaged 71Q. Max pressure was 3874. Average rate was 21 bpm at 1407 psi surface (1509 psi bottomhole). ISIP was 783 psi; 5 min - 625 psi, 10 min - 580 psi, 15 min - 550 psi.

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

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

May 31, 2005

**Blue Jay - Tharp A#1 - Stage #2**

Bevier (957'-959', 4 spf), Crowburg (977'-979', 4 spf), 16 shots total.

Started pump in with 105 gals gelled water, followed with 500 gals of 7.5% HCl. Followed with 588 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 5240 gals of MavFoam C70 carrying ~~12000~~ 12000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 638 gal gelled water, then overflushed by 84 gal. A total of 124,000 SCF of N<sub>2</sub> was used.

9940

Started pump in, formation broke down at 3153 psi. Started acid @ 4 bpm, STP-2531, BH-2683. Started Flush, STP-2331, BH-2459. Formation broke down at 2620 psi. Started Pad, STP-1224, BH-1591. Initial FQ was 51. Sand stages are as follows: Start 1#, STP-1262, BH-1326, FQ-71. Start 2#, STP-1318, BH-1425, FQ-70. Start 3#, STP-1370, BH-1494, FQ-71. Start Flush, STP-1360, BH-1569, FQ-71. Pad through sand stages were pumped @ 15-20 BPM downhole. FQ averaged 71Q. Max pressure was 3153. Average rate was 19 bpm at 1319 psi surface (1424 psi bottomhole). ISIP was 765 psi; 5 min - 623 psi, 10 min - 585 psi, 15 min - 560 psi.

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

May 31, 2005

**Blue Jay - Tharp A#1 - Stage #1**

Flemming (1017'-1019', 4 spf), Scamman (1064'-1068', 4 spf), 24 shots total.

Started with 500 gals of 7.5% HCl. Followed with 546 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 6000 gals of MavFoam C70 carrying 12000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 680 gal gelled water, then overflushed by 84 gal. A total of 153,000 SCF of N<sub>2</sub> was used.

Started acid @ 11 bpm, STP-0, BH-41. Started Flush, STP-0, BH-41. Formation broke down at 2106 psi. Started Pad, STP-836, BH-1139. Initial FQ was 56. Sand stages are as follows: Start 1#, STP-1338, BH-1423, FQ-71. Start 2#, STP-1352, BH-1472, FQ-72. Start 3#, STP-1371, BH-1520, FQ-72. Start Flush, STP-1382, BH-1545, FQ-72. Pad through sand stages were pumped @ 15-18 BPM downhole. FQ averaged 72Q. Max pressure was 2106. Average rate was 18 bpm at 1371 psi surface (1518 psi bottomhole). ISIP was 871 psi; 5 min - 786 psi, 10 min - 767 psi, 15 min - 756 psi.

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