

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**

AMENDED ORIGINAL

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  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
 Operator: Blue Jay Operating, LLC

Well Name: Jantz A-1  
 Original Comp. Date: 2/4/05 Original Total Depth: 1316'  
 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. \_\_\_\_\_

<u>3/28/05</u>	<u>3/30/05</u>	<u>5/31/05</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-25856-0000 0001  
 County: Wilson  
 SE  SE  NW  Sec. 12 Twp. 30 S. R. 14  East  West  
2310' feet from S / (N) (circle one) Line of Section  
2310' feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE (NW) SW  
 Lease Name: Jantz Well #: A-1  
 Field Name: Cherokee Basin Coal Gas Area  
 Producing Formation: See Perforating Record  
 Elevation: Ground: 930' Kelly Bushing: NA  
 Total Depth: 1316' Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 40' 8" 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/ 145 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: Hurricane Truck Services, Inv. - # MC 156212  
 Lease Name: Curry SWD #5 License No.: 30776  
 Quarter SE4 Sec. 15 Twp. 22 S. R. 11  East  West  
 County: Greenwood, KS Docket No.: 26554

Alt II WBM  
8-22-07

**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

**TRACY MILLER**  
 Notary Public - State of Kansas  
 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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 KANSAS CORPORATION COMMISSION  
 AUG 14 2007

Operator Name: Blue Jay Operating, LLC Lease Name: Jantz Well #: A-1  
 Sec. 12 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Electric Log Submitted with 4/15/05 - ACO-1</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Driller Log Submitted with 4/15/05 ACO-1
--	--

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	1312'	60/40 POZMIX	145	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	Mulky - 902'-905'	Foam Frac: 9000# 16/30 sand	
4	Bevier 950'-952'; Croweburg 968'-970'	Foam Frac: 6000# 16/30 sand	
4	Mineral 1007'-1011'; Tebo 1058'-1061'	Foam Frac: 5000# 16/30 sand	

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. 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 \_\_\_\_\_

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 WICHITA, KS

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ORIGINAL RECEIVED

JUL 07 2005

JUL 18 2005

Well Refined Drilling Company, Inc.

4270 Gray Road - Thayer, KS 66776

Contractor License # 33072 - FEIN #

620-763-2619/Office; 918-440-0976/Lowell Pocket; 620-432-6170/Jeff Pocket; 620-763-2065/FAX

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Rig #:	2	S 12 T 30 R 14E
API #:	15-205-25856-0000	Location SE, SE, NW
Operator:	Blue Jay Operating LLC	County: Wilson

HAVE RIG WILL DIG  
Rig #2

4916 Camp Bowie		Gas Tests				
Fort Worth, TX 76107		Well #:	A-1	Lease Name:	Jantz	Depth
Location:	2310 ft. from (N / S) Line					489
	2310 ft. from (E / W) Line					739
Spud Date:	9/15/2004					814
Date Completed:	9/17/2004 TD: 1316					839
Geologist:						900
Casing Record	Surface	Production				915
Hole Size	12 1/4"	6 3/4"				990
Casing Size	8 5/8"					1015
Weight						1316
Setting Depth	40' 8"					
Cement Type	Portland					
Sacks	11 W					
Feet of Casing	40' 8" C					
Rig Time	Work Performed					

Well Log

Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom	Formation
0	1	Overburden	266	273	g shly sand	472	475	dg sh/l strks
1	3	clay	273	279	sand/shl strks	475	478	blk shale
3	4	g sh/l strks	279	288	sand	476		water
4	6	g sh/lime	280		wet	478	481	dg shale
6	47	lime	288	318	sand/shl strks	481	482	coal
47	50	dg shale	318	319	coal	482	485	g sdy sh/lime
50	55	lime/dg shale	319	334	g sh/l strks	485	488	lime/g sdy shale
55	62	dg sh/l strks	334	337	mg sh/lime	488	498	g shly sand
62	115	lime	337	352	mg sh/snd strks	488		increased water
115	120	lime/shl strks	352	385	mg sh/l strks	498	499	coal
120	140	mg sh/l strks	385	388	lime/mg shale	499	517	g shale/l strks
140	143	lime/mg shale	388	401	lime	517	535	lime
143	172	mg sh/snd strks	401	405	mg sh/l strks	535	570	mg sh/l strks
172	250	mg shale	405	406	lime/shl strks	570	585	lime/shl strks
250	253	mg sh/lime	406	408	dg sh/l strks	585	588	dg sh/l strks
253	256	lime	408	417	lime	588	590	dg blk sh/pyrite strks
256	260	dg blk shale	417	418	dg shale	590	592	blk sh/pyrite strks
260	266	g sdy shale	418	472	lime	592	607	mg sh/l strks

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Operator: Blue Jay Operating			Lease Name: Jantz			Well # A-1		page 2
Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom	Formation
607	612	dg sh/l strks	886	887	dg blk sh/lime	1144	1146	lime/coal
612	613	coal	887	891	Summit blk shale	1146	1149	g sh/l strks
613	616	dg shale	891	895	dg sh/l strks	1149	1163	mg shl/snd strks
616	621	lime	895	906	lime	1163	1164	Rowe coal
621	627	g shale	906	907	dg sh/l strks	1164	1176	Tucker sand
627	636	dg shale	907	910	Mulky blk shale	1164		water
636	637	coal	910	911	coal	1176	1182	mg shale
637	640	g shale/lime	911	915	g sh/lime	1182	1192	mg shl/lam snd
640	655	lime/g shale	915	961	dg sh/l strks	1192	1198	dg mg shale
655	660	g sh/l strks	961	963	g sh/l strks	1198	1201	gm g sh/l strks
660	664	mg shale	963	971	dg sh/l strks	1201	1206	g sdy sh/l strks
664	679	lime/shl strks	971	972	Croweburg coal	1206	1212	mg shl/lam sand
679	685	lime	972	980	lime	1212	1214	g sh/l/chert strks
685	693	lime/g shale	980	1005	dg sh/l strks	1214	1220	Mississippi chert/
693	699	g sdy shale	1005	1009	mg sh/l strks			chat/shl strks
699	706	mg shl/snd strks	1009	1010	Mineral coal	1220	1234	chert/l strks
706	712	mg sdy shale	1010	1013	lime/shl strks	1234	1240	tan l/g w chert
712	721	mg shale	1013	1030	mg sh/l strks	1240	1260	w g chert/l strks
721	722	coal	1030	1038	mg shl/snd strks	1240		water
722	730	g sdy shale	1038	1046	mg br shly snd	1260	1284	tan l/g chat strks
730	738	g shl/lam sand	1046	1052	dg shl/snd strks	1284	1298	chert/l strks
738	745	g shly sand	1052	1061	dg sh/l strks	1298	1316	tan l/chert strks
745	780	sand	1061	1062	dg blk sh/l strks	1316		Total Depth
780	789	mg shl/snd strks	1062	1063	Bluejacket coal			
789	800	mg sh/l strks	1063	1073	g sh/l strks			
800	802	lime/shale	1073	1088	mg sh/l strks			
802	804	Mulberry coal	1088	1095	mg shl/ snd strks			
804	827	Pawnee lime	1095	1110	Bartlesville mg br			
827	832	Lexington blk shl			shl snd/coal strks			
832	836	dg sh/l strks	1110	1124	br snd/shl strks			
836	839	mg shl/lime	1110		water			
839	867	g mg shl/l strks	1124	1132	mg sdy shale			
867	885	Oswego lime	1132		water			
870	874	oil odor	1132	1141	br snd/coal strks			
885	886	dg sh/l strks	1141	1144	mg sdy shale			

Notes:

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04LI-091704-R2-060- Jantz A-1 Blue Jay Operating

Abbreviations used: d=dark, g=gray, sh or shl=shale, snd or sd=sand, m=med, br=brown, chrt=chert, cht=chat, /=with, l=lime, w=white, strks or stks =streaks, lam=laminated, gm=green, mg=medium gray b or blk=black, dg=dark gray, sdy=sandy, shly=shaley,

*Keep Drilling - We're Willing!*

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**MAYERICK**  
STIMULATION COMPANY, LLC

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

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

May 31, 2005

Blue Jay - Jantz A#1 - Return Trip

Mulky (902'-905', 4 spf), 12 shots total.

Started with 500 gals of 7.5% HCl. Followed with 672 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 4500 gals of MavFoam C70 carrying 9000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 601 gal gelled water. A total of 123,000 SCF of N<sub>2</sub> was used.

Started acid @ 5 bpm, STP-184, BH-212. Started Flush, STP-972, BH-901. Formation broke down at 1289 psi. Started Pad, STP-1241, BH-1573. Initial FQ was 61. Sand stages are as follows: Start 1#, STP-1397, BH-1480, FQ-70. Start 2#, STP-1492, BH-1615, FQ-70. Start 3#, STP-1601, BH-1737, FQ-71. Start Flush, STP-1566, BH-1723, FQ-71. Pad through sand stages were pumped @ 15-18 BPM downhole. FQ averaged 70Q. Max pressure was 1601. Average rate was 18 bpm at 1496 psi surface (1656 psi bottomhole). ISIP was 896 psi; 5 min - 721 psi, 10 min - 699 psi, 15 min - 688 psi.

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OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

CONFIDENTIAL

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: Well Refined Drilling Co., Inc.  
License: 33072  
Wellsite Geologist: NA

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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: Blue Jay Operating, LLC  
Well Name: Jantz A-1  
Original Comp. Date: ~~2/1/05~~ 2-4-05 Original Total Depth: 1316'  
\_\_\_\_ 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. \_\_\_\_

3/28/05 3/30/05 5/31/05  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 205-25856-0004  
County: Wilson  
SE - SE - NW - Sec. 12 Twp. 30 S. R. 14  East  West  
2310' feet from S N (circle one) Line of Section  
2310' feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Jantz Well #: A-1  
Field Name: Cherokee Basin Coal Gas

Producing Formation: See Perforating Record  
Elevation: Ground: 930' Kelly Bushing: NA  
Total Depth: 1316' Plug Back Total Depth: \_\_\_\_  
Amount of Surface Pipe Set and Cemented at 40' 8" 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/ 145 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) ALT II WITH B 22-07  
Chloride content NA ppm Fluid volume \_\_\_\_ bbls  
Dewatering method used Pump

Location of fluid disposal if hauled offsite:  
Operator Name: Hurricane Truck Services, Inv. - # MC 156212  
Lease Name: Curry SWD # 5 License No.: 30776  
Quarter SE4 Sec. 15 Twp. 22 S. R. 11  East  West  
County: Greenwood, KS Docket No.: 26554

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

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Side Two

ORIGINAL

Operator Name: Blue Jay Operating, LLC Lease Name: Jantz Well #: A-1
Sec. 12 Twp. 30 S. R. 14 [X] 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 [X] No (Attach Additional Sheets)

Samples Sent to Geological Survey [ ] Yes [X] No

Cores Taken [ ] Yes [X] No

Electric Log Run [X] Yes [ ] No (Submit Copy)

List All E. Logs Run:

Electric Logs Submitted on 4/15/05 - ACO-1

[X] Log Formation (Top), Depth and Datum [ ] Sample
Name Top Datum

Driller Log Submitted with 4/15/05 ACO-1

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Table with 8 columns: 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. Rows include Surface and Production data.

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Includes a list of purposes like Perforate, Protect Casing, etc.

Table with 4 columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type, Acid, Fracture, Shot, Cement Squeeze Record, Depth. Rows show perforation details for different intervals.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run [X] Yes [ ] No

Table with 2 columns: Date of First, Resumerd Production, SWD or Enhr. (6/1/05), Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (Explain)

Table with 4 columns: Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity. Values: 20, 50-75.

Disposition of Gas [ ] Vented [X] Sold [ ] Used on Lease [ ] Open Hole [X] Perf. [ ] Dually Comp. [ ] Commingled [ ] Other (Specify)

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Well Refined Drilling Company, Inc.

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4270 Gray Road - Thayer, KS 66776

Contractor License # 33072 - FEIN #

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HAVE RIG  
Rig #2  
WILL DIG

Rig #:	2	S 12 T 30 R 14E
API #:	15-205-25856-0000	Location: SE, SE, NW
Operator:	Blue Jay Operating LLC	County: Wilson
4916 Camp Bowie		
Fort Worth, TX 76107		
<b>Gas Tests</b>		
Well #:	A-1	Lease Name: Jantz
Location:	2310 ft. from (N / S) Line	Depth
	2310 ft. from (E / W) Line	Oz.
Spud Date:	9/15/2004	Orifice
Date Completed:	9/17/2004 TD: 1316	flow - MCF
Geologist:		
Casing Record	Surface	Production
Hole Size	12 1/4"	6 3/4"
Casing Size	8 5/8"	
Weight		
Setting Depth	40' 8"	
Cement Type	Portland	
Sacks	11 W	
Feet of Casing	40' 8" C	
Rig Time	Work Performed	

Well Log

Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom	Formation
0	1	Overburden	266	273	g shly sand	472	475	dg sh/l strks
1	3	clay	273	279	sand/shl strks	475	478	blk shale
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140	143	lime/mg shale	388	401	lime	517	535	lime
143	172	mg sh/snd strks	401	405	mg sh/l strks	535	570	mg sh/l strks
172	250	mg shale	405	406	lime/shl strks	570	585	lime/shl strks
250	253	mg sh/lime	406	408	dg sh/l strks	585	588	dg sh/l strks
253	256	lime	408	417	lime	588	590	dg blk sh/pyrite strks
256	260	dg blk shale	417	418	dg shale	590	592	blk sh/pyrite strks
260	266	g sdy shale	418	472	lime	592	607	mg sh/l strks



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Operator: Blue Jay Operating			Lease Name: Jantz			Well # A-1		page 2
Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom	Formation
607	612	dg sh/l strks	886	887	dg blk sh/lime	1144	1146	lime/coal
612	613	coal	887	891	Summit blk shale	1146	1149	g sh/l strks
613	616	dg shale	891	895	dg sh/l strks	1149	1163	mg sh/snd strks
616	621	lime	895	906	lime	1163	1164	Rowe coal
621	627	g shale	906	907	dg sh/l strks	1164	1176	Tucker sand
627	636	dg shale	907	910	Mulky blk shale	1164		water
636	637	coal	910	911	coal	1176	1182	mg shale
637	640	g shale/lime	911	915	g sh/lime	1182	1192	mg sh/lam snd
640	655	lime/g shale	915	961	dg sh/l strks	1192	1198	dg mg shale
655	660	g sh/l strks	961	963	g sh/l strks	1198	1201	gm g sh/l strks
660	664	mg shale	963	971	dg sh/l strks	1201	1206	g sdy sh/l strks
664	679	lime/shl strks	971	972	Croweburg coal	1206	1212	mg sh/lam sand
679	685	lime	972	980	lime	1212	1214	g sh/l/chert strks
685	693	lime/g shale	980	1005	dg sh/l strks	1214	1220	Mississippi chert/ chat/shl strks
693	699	g sdy shale	1005	1009	mg sh/l strks			
699	706	mg shl/snd strks	1009	1010	Mineral coal	1220	1234	chert/l strks
706	712	mg sdy shale	1010	1013	lime/shl strks	1234	1240	tan l/g w chert
712	721	mg shale	1013	1030	mg sh/l strks	1240	1260	w g chert/l strks
721	722	coal	1030	1038	mg sh/snd strks	1240		water
722	730	g sdy shale	1038	1046	mg br shly snd	1260	1284	tan l/g chat strks
730	738	g sh/lam sand	1046	1052	dg sh/snd strks	1284	1298	chert/l strks
738	745	g shly sand	1052	1061	dg sh/l strks	1298	1316	tan l/chert strks
745	780	sand	1061	1062	dg blk sh/l strks	1316		Total Depth
780	789	mg shl/snd strks	1062	1063	Bluejacket coal			
789	800	mg sh/l strks	1063	1073	g sh/l strks			
800	802	lime/shale	1073	1088	mg sh/l strks			
802	804	Mulberry coal	1088	1095	mg sh/ snd strks			
804	827	Pawnee lime	1095	1110	Bartlesville mg br			
827	832	Lexington blk shl			shl snd/coal strks			
832	836	dg sh/l strks	1110	1124	br snd/shl strks			
836	839	mg sh/lime	1110		water			
839	867	g mg sh/l strks	1124	1132	mg sdy shale			
867	885	Oswego lime	1132		water			
870	874	oil odor	1132	1141	br snd/coal strks			
885	886	dg sh/l strks	1141	1144	mg sdy shale			

Notes:

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04LI-091704-R2-060- Jantz A-1 Blue Jay Operating

Abbreviations used: d=dark, g=gray, sh or shl=shale, snd or sd=sand, m=med, br=brown, chrt=chert, cht=chat, /=with, l=lime, w=white, strks or stks =streaks, lam=laminated, gm=green, mg=medium gray b or blk=black, dg=dark gray, sdy=sandy, shly=shaley,

*Keep Drilling - We're Willing!!*

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**MAYERICK  
STIMULATION COMPANY, LLC**

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

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

May 31, 2005

**Blue Jay - Jantz A#1 - Return Trip**

Mulky (902'-905', 4 spf), 12 shots total.

Started with 500 gals of 7.5% HCl. Followed with 672 gal gelled water flush. Started treatment with a pad of 5000 gallons of MavFoam C70, followed by 4500 gals of MavFoam C70 carrying 9000 lbs 16/30 Arizona Sand at 1.0 to 3.0 ppg down hole. The treatment was flushed to the top perforation with 601 gal gelled water. A total of 123,000 SCF of N<sub>2</sub> was used.

Started acid @ 5 bpm, STP-184, BH-212. Started Flush, STP-972, BH-901. Formation broke down at 1289 psi. Started Pad, STP-1241, BH-1573. Initial FQ was 61. Sand stages are as follows: Start 1#, STP-1397, BH-1480, FQ-70. Start 2#, STP-1492, BH-1615, FQ-70. Start 3#, STP-1601, BH-1737, FQ-71. Start Flush, STP-1566, BH-1723, FQ-71. Pad through sand stages were pumped @ 15-18 BPM downhole. FQ averaged 70Q. Max pressure was 1601. Average rate was 18 bpm at 1496 psi surface (1656 psi bottomhole). ISIP was 896 psi; 5 min - 721 psi, 10 min - 699 psi, 15 min - 688 psi.

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