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KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

7/29/11

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34225  
Name: Buffalo Resources, LLC  
Address 1: 301 Commerce Street, Suite 1380  
Address 2: \_\_\_\_\_  
City: Fort Worth State: TX Zip: 76102 + 4140  
Contact Person: Matthew Flanery  
Phone: ( 817 ) 870-2707  
CONTRACTOR: License # 5929  
Name: Duke Drilling Company Inc.  
Wellsite Geologist: Dave Barker  
Purchaser: \_\_\_\_\_  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

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If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled  Docket No.: \_\_\_\_\_  
 Dual Completion  Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No.: \_\_\_\_\_  
5/6/2009 5/12/2009 5/12/09  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 141-20404-00-00  
Spot Description: \_\_\_\_\_  
SW NE NE NE Sec. 4 Twp. 9 S. R. 15  East  West  
500 Feet from  North /  South Line of Section  
640 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Osborne  
Lease Name: Mary Ann Well #: 1-4  
Field Name: Laton East  
Producing Formation: None  
Elevation: Ground: 1938' Kelly Bushing: 1946'  
Total Depth: 3611' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 271 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

PA-Dlg-7/29/09

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 28,000 ppm Fluid volume: 1000 bbls  
Dewatering method used: Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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: Daron Patterson  
Title: Production Foreman Date: 7/16/2009  
Subscribed and sworn to before me this 16<sup>th</sup> day of July, 2009.  
Notary Public: [Signature]  
Date Commission Expires: 11-1-09

KCC Office Use ONLY  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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Operator Name: Buffalo Resources, LLC Lease Name: Mary Ann Well #: 1-4  
 Sec. 4 Twp. 9 S. R. 15  East  West County: Osborne

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input 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>Dual Induction, Compensated Density/Neutron, Micro</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>2868'</td> <td>-922'</td> </tr> <tr> <td>Heebner Shale</td> <td>3096'</td> <td>-1150</td> </tr> <tr> <td>Toronto</td> <td>3118</td> <td>-1172</td> </tr> <tr> <td>Lansing</td> <td>3146'</td> <td>-1200</td> </tr> </table>	Name	Top	Datum	Topeka	2868'	-922'	Heebner Shale	3096'	-1150	Toronto	3118	-1172	Lansing	3146'	-1200
Name	Top	Datum														
Topeka	2868'	-922'														
Heebner Shale	3096'	-1150														
Toronto	3118	-1172														
Lansing	3146'	-1200														

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CASING RECORD <input 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 1/4"	8 5/8"	23	271	60/40 Poz	165	2% Gel, 3% CC

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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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method: <input type="checkbox"/> Flowing <input 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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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## TREATMENT REPORT

Customer <b>Buffalo Resources LLC</b>	Lease No.	Date <b>5-12-09</b>
Lease <b>Mary ANN</b>	Well # <b>1-4</b>	
Field Order # <b>1718 M183A</b>	Station <b>Pratt KS</b>	Casing <b>TD 3611</b>
Type Job <b>PTA</b>	Formation <b>SNW</b>	County <b>Oshawa</b>
		State <b>KS</b>
		Legal Description <b>4-17-16</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size <b>4 1/2</b>	Shots/Ft	<b>200 SK</b>	Acid <b>60/40 Porz 4%</b>	Gel <b>1/4"</b>	RATE <b>600 gals/hr</b>	PRESS <b>13.82 #</b>
Depth	Depth	From	To	Pre Pad	Max		ISIP <b>5 Min.</b>
Volume	Volume	From	To	Pad	Min		<b>1000</b>
Max Press	Max Press	From	To	Frac	Avg		<b>JUL 15 2009</b>
Well Connection	Annulus Vol.	From	To	Flush	HHP Used		<b>CONFIDENTIAL</b>
Plug Depth	Packer Depth	From	To		Gas Volume		Total Load

Customer Representative	Station Manager <b>DAVE SCOTT</b>	Treater <b>Allen F Werth</b>
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Service Units	<b>28443</b>	<b>27463</b>	<b>19831</b>	<b>19862</b>					
Driver Names	<b>Werth</b>	<b>Rovich</b>	<b>E. J. McGraw</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1200					on loc. discuss safety, setup plan job
1225			10	4	Ready for 1st Plug @ 1200 25 SKs
			6.3	4	Pump 10 Bbls H <sub>2</sub> O
			3	4	mix + Pump 25 SKs 60/40 Porz 4% gel 1/4" coll
			12		Pump 3 Bbls H <sub>2</sub> O
1240					D.O. w/ 12 Bbls mud.
1300			10	4	Pull D.P. To 770 2nd Plug 80 SKs
			20	4	Pump 10 Bbls H <sub>2</sub> O
			3	3	Pump 80 SKs 60/40 Porz 4% gel 1/4" coll
1308					Pump 3 Bbls H <sub>2</sub> O
1330					Pull D.P. 320 3rd Plug 40 SKs
			10	4	Pump 5 SKs H <sub>2</sub> O
			2	3	mix + Pump 4 SKs 60/40 Porz 4% gel 1/4" coll
1330			2 1/2	2	Pump 2 Bbls H <sub>2</sub> O
1415			7 1/2		Pull D.P. 40' to surface - 10 SKs w/ 2nd Plug
			3.7		Plug Rat Hole w/ 30 SKs
1437					Plug Mouse Hole w/ 15 SKs
1500					wash up + Breakup Equip
					Job Complete
					Ed Shoemaker
					thanks Allen, Chad, E.J.

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energy services, L.P.

## TREATMENT REPORT

Customer **Buffalo Resources LLC** Lease No. \_\_\_\_\_ Date **5-6-09**  
 Lease **MARY ANN** Well # **1-4**  
 Field Order # **1718 DIXIA** Station **Pratt KS** Casing **2 5/8** Depth \_\_\_\_\_ County **Osborne** State **KS**  
 Type Job **8-5/8" surface** Formation **CNW** Legal Description **4-9-15**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size/ <b>8-5/8</b>	Tubing Size	Shots/Ft	<b>165 SKS</b>	Acid <b>60/40 Por 2%</b>	Rate <b>6 gal, 3 1/2 CC</b>	Press <b>14.69 #/sq in</b>	ISIP <b>14.69 #/sq in</b>
Depth <b>770</b>	Depth	From	To	Pre Pad <b>cu ft/sk</b>	Max <b>12.5</b>		5 Min.
Volume <b>14.5</b>	Volume	From	To	Pad	Min		<b>10 Min</b>
Max Press <b>8.00</b>	Max Press	From	To	Frac	Avg		<b>15 Min</b>
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		<b>Annulus Pressure</b>
Plug Depth <b>777.5</b>	Packer Depth	From	To	Flush <b>fresh water</b>	Gas Volume		<b>Total Load</b>

Customer Representative \_\_\_\_\_ Station Manager **Dave Scott** Treater **Allen F Worth**

Service Units	<b>28443</b>	<b>19903</b>	<b>19905</b>	<b>19831</b>	<b>19862</b>	<b>Safety man</b>				
Driver Names	<b>Wirt Chad</b>	<b>Koush EJ</b>	<b>McGraw M</b>	<b>KaBalyard</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1230					on loc. Discuss Safety setup, PLAN Job
1300					Rig @ 1230
1330					Hole cut 271
1350					TRUCKS on loc - Start out of Hole @ 1350
1450					Start 8-5/8 csg 23 <sup>rd</sup>
1500	200 <sup>th</sup>			5	circul Rig csg @ 770' Good air
			37		Hook up to coal well
					Start with 165 SKS 60/40 Por
					2 1/2 gal, 3 1/2 CC @ 14.6 #
					Fin. mixing cat
					Release Top Rubber Plug 1 1/2
1530	200 <sup>th</sup>			4	Start D.P
	200 <sup>th</sup>			2	slow Rate
1530	850 <sup>th</sup>		14.5		Plug down
	12 <sup>th</sup>				Release Pad float field
					kick hose wash & rig up
1:00					Job complete

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(Convent Cir to P+)

Allen F Worth - Treater - M.F.E.