

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5369-5363
Name: Berexco Inc.
Address 1: P.O. Box 20380
Address 2: _____
City: Wichita State: KS Zip: 67208 + 1380
Contact Person: Evan Mayhew
Phone: (316) 265-3311
CONTRACTOR: License # 34317
Name: Beredco LLC
Wellsite Geologist: N/A
Purchaser: N/A
Designate Type of Completion:
____ New Well ☒ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW
____ Gas ____ ENHR ____ SIGW
____ CM (Coal Bed Methane) ____ Temp. Abd.
____ Dry ☒ Other Water Supply Well for Waterflood
(Core, WSW, Expl., Cathodic, etc.)

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

Operator: Berexco Inc.
Well Name: Modie #1-31
Original Comp. Date: 05/15/1990 Original Total Depth: 5150
____ 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.: _____
02 Feb. 2010 04 Feb. 2010 23 Mar. 2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 093-21070-00-01

Spot Description: _____
____ C ____ NW ____ SE Sec. 31 Twp. 22 S. R. 37 ☐ East ☒ West
1980 Feet from ☐ North / ☒ South Line of Section
1980 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Kearney
Lease Name: Patterson Unit Well #: 7-31
Field Name: Heinitz
Producing Formation: N/A
Elevation: Ground: 3306 Kelly Bushing: 3318
Total Depth: 4930 Plug Back Total Depth: 4850
Amount of Surface Pipe Set and Cemented at: 2130 Feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set: 2810 Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 41000 ppm Fluid volume: 600 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: Richard R. Smith
Title: Engineering Technician Date: 05 August, 2010
Subscribed and sworn to before me this 5th day of August
20 10
Notary Public: Diana E. Bell
Date Commission Expires: Aug 10, 2011

DIANA E. BELL
Notary Public - State of Kansas
My Appl. Expires 8-10-11

KCC Office Use ONLY

N Letter of Confidentiality Received
☒ If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution
141-Dg-8/12/10
RECEIVED
KANSAS CORPORATION COMMISSION
AUG 09 2010

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Berexco Inc. Lease Name: Patterson Unit Well #: 7-31
 Sec. 31 Twp. 22 S. R. 37 ☐ East ☒ West County: Kearney

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 <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☒ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No <i>(Submit Copy)</i> List All E. Logs Run: Gamma - Ray Neutron CCL & Cement Bond Logs only no open hole logs run for this re-entry.	☒ Log Formation (Top), Depth and Datum ☐ Sample <table style="width: 100%;"> <tr> <td style="width: 60%;">Name</td> <td style="width: 20%;">Top</td> <td style="width: 20%;">Datum</td> </tr> <tr> <td>(Base) Heebner</td> <td>3787</td> <td>(-469)</td> </tr> <tr> <td>Toronto</td> <td>3800</td> <td>(-482)</td> </tr> <tr> <td>KS City</td> <td>4165</td> <td>(-852)</td> </tr> <tr> <td>Marmaton</td> <td>4342</td> <td>(-1024)</td> </tr> <tr> <td>Cherokee</td> <td>4476</td> <td>(-1158)</td> </tr> <tr> <td>Morrow</td> <td>4731</td> <td>(-1413)</td> </tr> <tr> <td>St. Genevieve</td> <td>4882</td> <td>(-1564)</td> </tr> </table>	Name	Top	Datum	(Base) Heebner	3787	(-469)	Toronto	3800	(-482)	KS City	4165	(-852)	Marmaton	4342	(-1024)	Cherokee	4476	(-1158)	Morrow	4731	(-1413)	St. Genevieve	4882	(-1564)
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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 (set 5/3/1990)	12 1/4"	8 5/8"	24#	2130'	C lite & class C	650 & 150	2%cc, 1/4#flocle
Production	7 7/8"	5 1/2"	15.5#	4917'	60/40POZ & ASC	110 & 200	2%gel10%salt,6#Gils
DV Tool				2810'	60/40POZ, cl. A	350 & 50	8% gel, 1/4# flakes

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				RECEIVED KANSAS CORPORATION COMMISSION AUG 09 2010

PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		WICHITA, KS Depth	
Shots Per Foot							
4 SPF	4283-94', 4236-44', 4171-85', 4117-51', 4078-86', 4020-34',			2000 gals 15% FE-HCL		4233-94'	
	3912-20', 3894-3902', 3829-35', 3800-13', 3765-82',			1500 gals 15% FE-HCL		4171-85'	
	3756-65', 3746-54', 3664-72', 3654-60', 3610-28',			2000 gals 15% FE-HCL w/80 balls		4117-51'	
	3598-3606', 3554-62', 3536-46' & 3523-32'			1000 gals 15% FE-HCL		4078-86'	
				1500 gals 15% FE-HCL w/60 balls		3800-35'	
TUBING RECORD: Size: Set At: Packer At:				Liner Run: ☐ Yes ☐ No			
Date of First, Resumed Production, SWD or Enhr. waiting completion of injection lines & pump			Producing Method: ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls. no oil	Gas Mcf no gas	Water Bbls. 50 bwd	Gas-Oil Ratio NA	Gravity NA		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Operator Name: Berexco Inc. Lease Name: Patterson Unit Well #: 7-31
 Sec. 31 Twp. 22 S. R. 37 ☐ East ☒ West County: Kearney

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:

this sheet for acidizing info. only - see below:
 (previous sheet has log & casing. info., formation tops & perms.)

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

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

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
		1500 gals 15% FE-HCL	4020-34'
		1500 gals 15% FE-HCL w/50 balls	3894-3920'
		2000 gals 15% FE-HCL w/100 balls	3746-82'
		1000 gals 15% FE-HCL w/40 balls	3654-72'
		3000 gals 15% FE-HCL w/150 balls	3523-3628'

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:
					☐ Yes ☐ No
Date of First, Resumed Production, SWD or Enhr.			Producing Method:		
			☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify) _____	RECEIVED KANSAS CORPORATION COMMISSION AUG 09 2010

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