



KANSAS CORPORATION COMMISSION 1044902  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

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

OPERATOR: License # 34318  
Name: BEREXCO LLC  
Address 1: 2020 N. BRAMBLEWOOD  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67206 + 1094  
Contact Person: Evan Mayhew  
Phone: ( 316 ) 265-3311  
CONTRACTOR: License # 34318  
Name: BEREXCO LLC  
Wellsite Geologist: N/A  
Purchaser: N/A

API No. 15-093-21121-00-01

Spot Description: \_\_\_\_\_  
SE SW NW SE Sec. 5 Twp. 23 S. R. 37  East  West  
1,485 Feet from  North /  South Line of Section  
2,289 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County: Kearny

Lease Name: PATTERSON UNIT Well #: 6-5

Field Name: Patterson

Producing Formation: N/A

Elevation: Ground: 3296 Kelly Bushing: 3308

Total Depth: 5100 Plug Back Total Depth: 5032

Amount of Surface Pipe Set and Cemented at: 1667 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 3163 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: Berexco Inc.

Well Name: Teresa #1-5

Original Comp. Date: 09/02/1991 Original Total Depth: 5100

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW

Plug Back: \_\_\_\_\_ Plug Back Total Depth

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

ENHR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
<u>07/13/2010</u>	<u>07/13/2010</u>	<u>10/05/2010</u>

**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.

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garrison Date: 10/07/2010



1044902

Operator Name: BEREXCO LLC Lease Name: PATTERSON UNIT Well #: 6-5  
 Sec. 5 Twp. 23 S. R. 37  East  West County: Kearny

**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 complete copy of all Electric Wire-line 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum N/A
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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	12.250	8.625	23	1667	P Lite/PP	700	2%cc, 1/4#flocele/2
Production	7.875	5.50	15	5099	Surefill	250	
DV Tool				3163	Lite/Common	400	Flocele

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	4128-4136	Class A	75	
<input checked="" type="checkbox"/> Plug Off Zone	4128-4136	Common	150	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4768' - 4778' (Morrow)	1000 gallons 10% NEFE-HCL	4768' - 4778'

TUBING RECORD: Size: <u>see attached sheet</u> Set At: <u>see attached sheet</u> Packer At: <u>see attached sheet</u> Liner Run: <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Liner & Tubing detail for Patterson Unit #6-5:

05/Oct./2010

9/15/2010: Welded in 800' of 3½", 7.58# liner pipe, ID – 3.068", 3½" to 4½" swedge, and 4½" 10.5# csg w/turned down collars back to surface. Ran liner to 4822' & cemented w/100 sx 60/40 POZ w/4% gel, ¾% friction reducer & ½# fluid loss.

9/22/2010: Ran cement bond log. TD @ 4822' KB, top of 3 ½" liner @ 4023', TOC 940'. Cement bond behind 3 ½" liner is good.

9/24/2010: Perforated Morrow 4,768' – 4,778' 4 SPF with strip gun. Acidized 4765 – 78 with 1000 gals 10% NE-FE HCL.

10/01/2010: Ran 3½" Arrow set-1 nickel plated pkr, 2 1/16" changeover, 28 jts seal-tite lined 2 1/16" tbg (903'), 2 1/16" x 2 3/8" changeover, 150 jts 2 3/8" seal-tite lined tbg. Set pkr @4722'. Loaded annulus w/50 bbls pkr fluid. Tested annulus to 300#, held OK. Wait on KCC approval to begin injection.

API: 15-093-21121-0001

1485' FSC, 2145' FSL

LEASE Patterson Unit (Terra #1 sub) WELL NO. 6-5  
 LOCATION SE SW 1/4 SE 5-23-37 COUNTY Keary STATE KS  
 OPERATOR \_\_\_\_\_ FIELD Patterson  
 ELEVATION: GR \_\_\_\_\_ OF \_\_\_\_\_ KB 3308  
 DATE DRILLED 10/90 ZERO MEASUREMENT \_\_\_\_\_

PRODUCING FORMATION \_\_\_\_\_  
 PUMP SIZE: \_\_\_\_\_ SET AT \_\_\_\_\_ FEET  
 ROD DESIGN: TUBING: \_\_\_\_\_ JTS OF \_\_\_\_\_ TBG  
 7/8" \_\_\_\_\_ WITH \_\_\_\_\_ 'M.A. SET @ \_\_\_\_\_  
 3/4" \_\_\_\_\_  
 1/8" \_\_\_\_\_

8 5/8" SURF CSG @ 1667'  
 W/ 700 SX CEMENT  
 (Cement circulated to SURF)  
 → 1950'

→ 2 3/8" lined tubg

DU at 3163 w/ 400 SX

→ TOC 3580 LBL

→ 4 1/2" 10.5# CSG

→ TOP OF 3 1/2" @ 4023'

4128-36 Lansing G SQZ w/ 75SX + 150SX

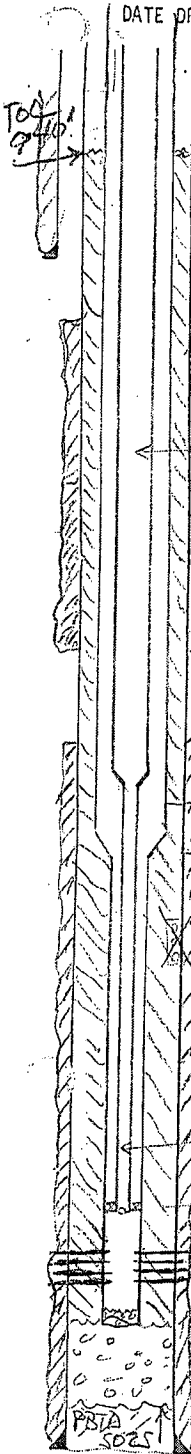
→ 2 1/8" lined tubg

→ PKR @ 4722'

MORROW  
 4766-4778'

→ 37' OF 3 1/2" @ 4822'

5 1/2" 15.5# CSG @ 5099  
 W/ 250 SX OF CMT



1/91 Drill out to 5025, test casing to 1000# - OK. Perf Lansing G 4128-36
Acidize w/ 2500 gal 20% NE w/ ball sealers
TIH w/ tubing + packer at 4088 (2 3/8" tubing)
MIT to 500'
Permitted for 1000 BWPD at 800 PSI max
11/94 Acidize w/ 750 gal 15%
5/95 Acidize w/ 750 gal 15%
7/16-10/5/10 Sqz 4128-36 w/ 75SX comm. DOC thru SQZ but then hit hard shale in csg below 4130. TOOK 17 days to drill 4200-4870'. Reaq 4128-36 w/ 150SX - did not get SQZ. DOC + record 4871'. TOOK 21 days. Suspect that mud pump was clogged. csg + drilled new hole. Ran BDO of 3 1/2" 17.5# + 3.0# to 4010z. Ran 4010z w/ 4 1/2" 10.5# csg w/ Alimbo 40 c collar. Ran 4010z of 3 1/2" to 4822' KA. Cemented w/ 100SX w/ 4010z w/ 4 1/2" PKR. CIRCULATED CEMENTING + reaq got 2 back. DOC in line to 4829' KB. Ran bond log TOC @ 940'. TD on log @ 4822' TOC @ 3 1/2" @ 4023'. Pen Morrow 4768-4778' KB 45' ft. RD w/ 1000 G 10% acid. 1 1/2" BPH @ 1700'. ISIP 1000' Rain on UAC. Ran Annulet - 1 3/8" PAI 28' @ (903') 2 1/8" seal w/ lined tubg + 150' of 2 3/8" lined tubg. Set PKR @ 4722' MIT test 300'.

DST #1 Morrow 15'M, 228# - test missed sand - too high  
 DST #2 Morrow 30'M, 637' W, 424#  
 [had 12' Morrow sand, but wet]

# ALLIED CEMENTING CO., LLC. 035645

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Cooley

DATE <u>9-15-10</u>	SEC. <u>5</u>	TWP. <u>23s</u>	RANGE <u>37W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 Am</u>	JOB FINISH <u>1:30 Am</u>
HATTERTSON LEASE UNIT		WELL# <u>6-5</u>	LOCATION <u>Lakin</u>	<u>10N 7W</u>		COUNTY <u>Keosau</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)			<u>3/4s Wind</u>				

CONTRACTOR Berexco OWNER Some  
TYPE OF JOB Liner

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
CASING SIZE 3 1/2 4 1/2 DEPTH 4825'  
TUBING SIZE 800 4025 DEPTH \_\_\_\_\_  
DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
PRES. MAX. \_\_\_\_\_ MINIMUM \_\_\_\_\_  
MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
CEMENT LEFT IN CSG. 100'  
PERFS. \_\_\_\_\_  
DISPLACEMENT 70 BBL  
EQUIPMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 sks 6 9/10 40 gal  
39% 20-31 .39% FL-10 Deformer  
used 100 sks

PUMP TRUCK CEMENTER Andrew  
# 423-281 HELPER Lorene  
BULK TRUCK # 323 DRIVER Brandon  
BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>60 sks</u>	@	<u>15.45</u>	<u>927.00</u>
POZMIX	<u>40 sks</u>	@	<u>8.00</u>	<u>320.00</u>
GEL	<u>3 sks</u>	@	<u>20.80</u>	<u>62.40</u>
CHLORIDE		@		
ASC		@		
CD-31	<u>26#</u>	@	<u>9.35</u>	<u>243.10</u>
FL-160	<u>20#</u>	@	<u>13.30</u>	<u>266.00</u>
Deformer	<u>25#</u>	@	<u>8.90</u>	<u>222.50</u>
HANDLING	<u>154 sks</u>	@	<u>2.10</u>	<u>321.40</u>
MILEAGE	<u>10 1/2 SK/mile</u>	@		<u>220.00</u>
				TOTAL <u>3260.40</u>

REMARKS:  
800' 3 1/2 9 1/8" 4025' 4 1/2 10 1/2"  
Take Injection rate 1 1/2 BBL min  
1500# mix 100 sks Displace  
1700# Final Lift pressure shut  
in at 1400# - no returns  
They out Job

SERVICE

DEPTH OF JOB	<u>4825</u>	
PUMP TRUCK CHARGE		<u>1185.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>50 miles</u>	@ <u>7.00</u> <u>350.00</u>
MANIFOLD	@	
	@	
	@	
		TOTAL <u>1535.00</u>

CHARGE TO: Berexco  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	
		TOTAL _____

To Allied Cementing Co., LLC:  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \_\_\_\_\_

PRINTED NAME \_\_\_\_\_  
SIGNATURE [Signature]

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS