

ORIGINAL

CONFIDENTIAL

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

4/22/10

Operator: License # 5363
Name: Berexco Inc.
Address: P. O. Box 20380
City/State/Zip: Wichita, KS 67208
Purchaser: Central Crude Corp. **KCC**
Operator Contact Person: Bruce Meyer **APR 22 2008**
Phone: (316) 265-3311
Contractor: Name: Beredco Inc.
License: 5147
Wellsite Geologist: Bryan Bynog

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. _____

<u>17 Jan. 2008</u>	<u>26 Jan. 2008</u>	<u>08 Mar. 2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 163-23633-00-00
County: Rooks
NW NW SE SW Sec. 3 Twp. 10 S. R. 20 East West
982 feet from (S) N (circle one) Line of Section
1,389 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Nutsch Well #: 8
Field Name: Marcotte

Producing Formation: Arbuckle
Elevation: Ground: 2244' Kelly Bushing: 2255'
Total Depth: 3803' Plug Back Total Depth: 3803'
Amount of Surface Pipe Set and Cemented at 272 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1748 Feet
If Alternate II completion, cement circulated from 1748
feet depth to surface w/ 420 sx cmt.

Drilling Fluid Management Plan Att II NH 8-13-08
(Data must be collected from the Reserve Pit)
Chloride content 23,000 ppm Fluid volume 400 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 ECONOMIST Date: 22/APRIL/2008
Subscribed and sworn to before me this 22nd day of April

2008
Notary Public: Diana E Bell
Date Commission Expires: Aug 10, 2011

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

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

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APR 23 2008

CONSERVATION DIVISION
WICHITA, KS

KCC
APR 22 2008
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Operator Name: Berexo Inc. Lease Name: Nutsch Well #: 8
 Sec. 3 Twp. 10 S. R. 20 East West County: Rooks

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	3272'	(-1017')
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Plattsmouth	3476'	(-1221')
List All E. Logs Run:		Heebner	3476'	(-1221')
Microresistivity Log	Dual Receiver Cement	Lansing A	3514'	(-1259')
Radiation Guard Log	Bond Log	Arbuckle	3800'	(-1545')
Gamma Ray Neutron CCL Log				

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 1/4"	8 5/8"	20	272'	Comm	185	3% cc, 2% gel
production	7 7/8"	5 1/2"	15.5	3802'	60/40/6 POZ	110	6%gel, 1/4#flake
(see sheet 3)					ASC	75	2% gel

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 <i>(Amount and Kind of Material Used)</i>	Depth
4 SPF	3800' - 3803'	300 gals. Pentall 300 Acid	3800'-03'
open hole	3802' - 3803 1/2'		

TUBING RECORD		Size Set At	Packer At	Liner Run
		2 7/8"	3796'	no packer
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method		
08 March 2008		<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
	6	no gas	152	

Disposition of Gas: Vented Sold Used on Lease *(If vented, Sumit ACO-18.)*

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 3800 - 3803 1/2'

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Side Two Three

Operator Name: Berexco Inc. Lease Name: Nutsch Well #: 8
Sec. 3 Twp. 10 S. R. 20 East West County: Rooks

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(see sheet 2)		
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run: (see sheet 2)				

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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
prod. (D-V tool)	7 7/8"	5 1/2"	14 #	1748'	60/40 POZ	420	6% gel & 1/4 # flowseal
(see sheet 2)							

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
	(see sheet 2 for this info.)		

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 Vented Sold Used on Lease *(If vented, Sumit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

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CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., LLC

Federal

33961
WELL FILE

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

SERVICE POINT:
Russell KS

DATE <u>1-17-08</u>	SEC. <u>3</u>	TWP. <u>10</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>7:00 pm</u>
LEASE <u>Nutsch</u>	WELL # <u>8</u>	LOCATION <u>Palco KS 1 South Red Line Rd 2 East</u>			COUNTY <u>Rooks</u>	STATE <u>KCS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 South 1/4 West North into</u>					

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CONTRACTOR Beredco Inc. Rig #10
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 272
 CASING SIZE 8 5/8 20# DEPTH 272.28
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 16.38 Bbls

OWNER
 CEMENT
 AMOUNT ORDERED 185 com 3%cc 2%gel

EQUIPMENT
 PUMP TRUCK CEMENTER Jahn Roberts
 # 409 HELPER Adrian
 BULK TRUCK
 # 378 DRIVER Chris
 BULK TRUCK
 # DRIVER

COMMON	<u>185</u>	@	<u>12.15</u>	<u>2247.75</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>18.25</u>	<u>73.00</u>
CHLORIDE	<u>6</u>	@	<u>51.00</u>	<u>306.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>195</u>	@	<u>2.05</u>	<u>399.75</u>
MILEAGE	<u>45 SK/m/09</u>			<u>789.75</u>
				<u>3816.25</u>

REMARKS:

SERVICE

Cement Circ!
 CHARGE TO: Berexco Inc.
 STREET
 CITY STATE ZIP

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>893.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>45</u>	@	<u>7.00</u>	<u>315.00</u>
MANIFOLD	@		
	@		
	@		

TOTAL 1208.00

PLUG & FLOAT EQUIPMENT

	@		
	@		
<u>8 5/8 Wood Plug</u>	@		<u>66.00</u>
	@		
	@		

TOTAL 66.00

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.

Thanks!

PRINTED NAME Markin Julian

SIGNATURE Markin Julian

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

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 KANSAS CORPORATION COMMISSION
 APR 23 2008
 CONSERVATION DIVISION
 WICHITA, KS

ALLIED CEMENTING CO., INC.

29568

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

SERVICE POINT:

Russell

DATE <i>1-27-08</i>	SEC. <i>3</i>	TWP. <i>10</i>	RANGE <i>20</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>7:30 a.m.</i>
LEASE <i>Nutsch</i>	WELL# <i>2</i>	LOCATION <i>Palco 15 2E 15</i>			COUNTY <i>Nooks</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)		<i>1/4 W W. n. n.</i>					

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CONTRACTOR <i>Bradou Drilling</i>	R _s = <i>10</i>	OWNER
TYPE OF JOB <i>Production String</i>	<i>Bottom Stage</i>	CEMENT
HOLE SIZE <i>7 7/8</i>	T.D. <i>3803</i>	AMOUNT ORDERED <i>110 6% 62.6gal 1/4" 75 ASC 29.6gal</i>
CASING SIZE <i>5 1/2 19"</i>	DEPTH <i>3808</i>	
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL <i>D.V Tool</i>	DEPTH <i>1748</i>	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT <i>80.39</i>	
CEMENT LEFT IN CSG. <i>80.39</i>		
PERFS.		
DISPLACEMENT <i>90.82 gal</i>		

EQUIPMENT	
PUMP TRUCK	CEMENTER <i>Shane</i>
# <i>366</i>	HELPER <i>Matt</i>
BULK TRUCK	
# <i>386</i>	DRIVER <i>Sarod</i> (<i>Oakley</i>)
BULK TRUCK	
#	DRIVER

COMMON	<i>66</i>	@	<i>12.15</i>	<i>801.90</i>
POZMIX	<i>44</i>	@	<i>6.80</i>	<i>299.20</i>
GEL	<i>7</i>	@	<i>18.25</i>	<i>127.75</i>
CHLORIDE		@		
ASC	<i>75</i>	@	<i>15.50</i>	<i>1128.75</i>
<i>Fl. Seal</i>	<i>27.00</i>	@	<i>2.20</i>	<i>59.40</i>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>200</i>	@	<i>2.05</i>	<i>410.00</i>
MILEAGE	<i>109/38/mile</i>			<i>1170.00</i>
			TOTAL	<i>3907.00</i>

REMARKS:

D.V Tool @ 1748 Escal @ 3722
Landed Plug @ 1200 p.
Float Held

CHARGE TO: *Beferco*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<i>1763.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>65</i>	@ <i>7.00</i>	<i>455.00</i>
MANIFOLD	@	
	@	
	@	
<i>12.00</i>		
<i>100.00</i>		
<i>11367.90</i>	TOTAL	<i>2218.00</i>

PLUG & FLOAT EQUIPMENT

<i>D.V. Tool</i>	@	<i>4350.00</i>
<i>8- Tumb. liners</i>	@ <i>77.00</i>	<i>616.00</i>
<i>5- Baskets (Blue)</i>	@ <i>181.00</i>	<i>905.00</i>
<i>Float Shoe (Blue)</i>	@	<i>515.00</i>
	@	
TOTAL		<i>6416.00</i>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Thanks

SIGNATURE *Armando Limer*

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME RECEIVED
KANSAS CORPORATION COMMISSION

APR 23 2008

ALLIED CEMENTING CO., INC.

29569

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

SERVICE POINT:

Russell

DATE <u>1-27-08</u>	SEC. <u>3</u>	TWP. <u>10</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>11:30 a.m.</u>
LEASE <u>Nutsch</u>	WELL# <u>8</u>	LOCATION <u>Palco 13 2E 15</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1/4 w N. to</u>					

CONTRACTOR Brook Dilling R.# 10 OWNER _____
 TYPE OF JOB Production string top stage
 HOLE SIZE 7 7/8 T.D. 3803
 CASING SIZE 14 1/2 DEPTH 3803
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL O.V Tool DEPTH 1748
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 42 65 all

CEMENT Used 420
 AMOUNT ORDERED 425 60/100 69.61 4 1/2

COMMON	<u>252</u>	@	<u>12.15</u>	<u>3061.80</u>
POZMIX	<u>173</u>	@	<u>6.70</u>	<u>1156.00</u>
GEL	<u>23</u>	@	<u>18.21</u>	<u>419.75</u>
CHLORIDE		@		
ASC		@		
	<u>Fl. Seal 100 12</u>	@	<u>2.20</u>	<u>231.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>452</u>	@	<u>2.00</u>	<u>926.00</u>
MILEAGE	<u>119/10/10</u>			<u>2644.00</u>
TOTAL				<u>8739.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Steve
 # 31.6 HELPER Matt
 BULK TRUCK
 # 36.2 DRIVER Chuck
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Rot Hole 15 sks More work
Opened O.V Tool @ 1100 psi
Circulated 2 hrs
Completed Plug @ 1500 psi
Float Held

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1045.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 1.5 @ 7.00 450.00
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL 1500.00

CHARGE TO: Berry
 STREET _____
 CITY _____ STATE _____ ZIP _____

993935
 993937

PLUG & FLOAT EQUIPMENT

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

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Steve
Steve

SIGNATURE _____

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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CONSERVATION DIVISION
 WICHITA, KS

WELL FILE

BEREXCO, INC.

~~HUTSCH # 8~~

MUTSCH # 8

**N/2 S/2 SW/4 SECTION 3 T10S-R20W
ROOKS COUNTY, KANSAS**

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**GEOLOGIST
WILLIAM B. BYNOG**

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RESUME

OPERATOR: BEREXCO, INC.
WELL NAME & NUMBER: ~~NUTSCH~~
NUTSCH # 8
LOCATION: N/2 S/2 SW/4 SECTION 3 T10S-R20W
COUNTY: ROOKS
STATE: KANSAS
SPUD DATE: 1-17-2008 COMPLETION DATE: 1-26-2008
ELEVATIONS: GL: 2244' KB: 2255'
CONTRACTOR: BEREDCO RIG 10
LOGS: LOG TECH TYPES: RAG & MEL
ENGINEER: LOFFREDI
WELLSITE ENGINEER: NONE
MUD COMPANY: ANDY'S MUD
MUD TYPE & ENGINEER: FRESH CHEMICAL: KURT WERTH
GEOLOGIST: WILLIAM B. BYNOG
HOLE SIZE: 7 7/8
MUD LOGGING BY: NONE
DRILL STEM TEST COMPANY: ~~TRILOBITE~~
DIAMOND TESTING
DRILL STEM TEST: DST #1 3294-3310', DST#2 3530-3606',
DST#3 3630-3730', DST#4 3730-3802'
WELL STATUS: SET PRODUCTION PIPE

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SUMMARY AND CONCLUSION

Nutsch # 8 was drilled a total depth of 3802 feet testing the Lansing Kansas City, and Arbuckle Formations. Our primary objective was the Arbuckle Dolomite and secondary the Lansing Kansas City.

There were many shows in the upper section, starting with the 35 feet Topeka at 3271 feet. This zone was tested on drill stem test # 1 recovering, 150 feet of muddy water with good reservoir pressures. There were numerous spotty shows in the Lansing B, C, D, F and G zones. Drill stem test # 2 tested all these zones recovering, 120 feet muddy water with a trace of oil and 1100 feet of water. The Lansing H, I, J and K zones all were tight with spotty sample shows. The Lansing L Zone had the best show with fair porosity, even stain, good cut and odor. Drill stem test # 3 tested all of these zones, H through L and recovered 10 feet of clean oil and 110 feet of oil and gas cut mud with fair pressures.

The Arbuckle at 3798 feet had a poor drilling break and samples indicated only fair porosity development but good even oil saturation in the upper four feet. Drill stem test # 4 recovered 150 feet of gas in pipe, 960 feet of clean oil and 250 feet of heavy oil and gas cut oil.

Logs agreed with sample evaluation and drill stem tests. A decision was made to set pipe on the Arbuckle drill stem test recovery and favorable log calculations on the Lansing L Zone.

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FORMATION TOPS

FORMATION	DEPTH (LOGS)
STONE CORRAL	1724(+531)
TOPEKA	3272(-1017)
35' ZONE	3298(-1043)
PLATTSMOUTH	3444(-1189)
HEEBNER	3476(-1221)
TORONTO	3496(-1241)
LANSING A	3514(-1259)
B ZONE	3554(-1299)
C ZONE	3574(-1319)
D ZONE	
E ZONE	3592(-1337)
G ZONE	3608(-1353)
H ZONE	3648(-1393)
I ZONE	3670(-1415)
J ZONE	3688(-1433)
K ZONE	3704(-1449)
L ZONE	3718(-1463)
BKC	3734(-1479)
MARMATON	
ARBUCKLE	3800(-1545)

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LITHOLOGY

3000-30 Limestone buff, hard, chalky, poor porosity

3030-3100 Shale gray, green, firm, argillaceous

3100-3200 Limestone buff, hard, dense, chalky

3200-70 Shale gray green, firm

TOPEKA

3270-3300 Limestone buff, hard, fossiliferous, dense, chalky

35' ZONE

3300-10 Limestone buff, firm, chalky, fossiliferous, fair vuggy porosity, even brown stain, very good cut & odor, good show free oil

3310-50 Limestone cream-buff, very hard, dense

3350-70 Limestone cream, firm, finely crystalline, fossiliferous, chalky, fair porosity, no show

3370-80 Shale as above

3380-3420 Limestone buff, very hard, dense, some Chert tan

3420-45 Limestone white, firm, very chalky, poor porosity, some Chert tan

PLATTSMOUTH

3445-50 Limestone cream, firm, chalky, poor porosity, spotty stain dead stain, poor cut

3450-75 Limestone cream, very hard, dense

HEEBNER

3475-80 Shale black, firm, carbonaceous

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3480-90 Limestone cream, firm, chalky, poor porosity, dense

3490-3515 Shale red, green, firm, argillaceous

LANSING

3515-40 Limestone off white-cream, hard, dense, chalky, poor porosity, some
Chert white

3540-50 Shale as above

B ZONE

3550-60 Limestone cream, hard, chalky, poor porosity, very spotty
stain, fair cut, trace free oil

3560-80 Shale red, soft, argillaceous

C ZONE

3580-90 Limestone buff, hard, dense, poor porosity, spotty stain, fair cut

3590-3600 Limestone white, firm, oolitic, poor porosity, spotty stain, good cut

F ZONE

3600-10 Limestone white, firm, oolitic, fair porosity, spotty to even stain, good cut
& odor, show free oil

G ZONE

3610-20 Limestone white, firm, slightly oolitic, chalky, poor porosity, spotty stain,
fair cut & odor

3620-40 Limestone white-cream, very hard, dense, some Chert white

3640-50 Shale gray green, as above

H ZONE

3650-55 Limestone cream, hard, chalky, poor porosity, spotty stain, fair cut &
odor, trace free oil

3655-75 Shale as above

I ZONE

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3675-90 Limestone white, very hard, dense

J ZONE

3690-3700 Limestone cream, hard, microcrystalline, poor porosity, even brown stain, good cut

3700-05 Shale as above

K ZONE

3705-10 Limestone white, firm, chalky, oolitic, poor to some fair vuggy porosity, spotty brown stain, good cut, show free oil

3710-20 Shale red, green, firm, argillaceous

L ZONE

3720-25 Limestone white, firm, very oolitic, fair porosity, even stain, good cut & odor, good show free oil

3725-30 Limestone cream, very hard, dense

BKC

3730-50 Shale green, red, firm, waxy

MARMATON

3750-60 Limestone cream, very hard, chalky, dense

3760-80 Shale red, very soft, very argillaceous with thin interbedded Limestone as above, abundant Chert yellow, white

3780-90 Conglomerate/Sandstone clear, firm, medium to coarse grain, poorly sorted, sub angular, clay filled, poor porosity, abundant dead stain, fair cut, very abundant Chert yellow, white

3790-3798 Shale blue, yellow, firm, waxy, abundant Chert as above

ARBUCKLE

3798-3802 Dolomite cream-buff, hard, microsucrosic, poor to fair intercrystalline porosity, fair to good vuggy porosity, even stain, good cut & odor, good show free oil

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