

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9951

Name: Kirby Krier Oil, Inc.

Address 1: 1043 NE 80TH RD.

Address 2: \_\_\_\_\_

City: CLAFLIN State: KS. Zip: 67525 + \_\_\_\_\_

Contact Person: Kirby Krier

Phone: ( 620 ) 587-3810

CONTRACTOR: License # 33905

Name: Royal Drilling, Inc.

Wellsite Geologist: Jim Musgrove

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       SWD       SIOW
- Gas       ENHR       SIGW
- CM (Coal Bed Methane)       Temp. Abd.
- 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. \_\_\_\_\_ Conv. to SWD

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

\_\_\_\_\_ Commingled      Docket No.: \_\_\_\_\_

\_\_\_\_\_ Dual Completion      Docket No.: \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Enhr.?)      Docket No.: \_\_\_\_\_

9/29/2009      10/05/2009      10/14/2009

Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

API No. 15 - 009-25350-00-00

Spot Description: \_\_\_\_\_

N2\_N2\_NW Sec. 29 Twp. 18 S. R. 11  East  West

330 Feet from  North /  South Line of Section

1320 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: BARTON

Lease Name: REHME-HAMMEKE Well #: 1 UNIT

Field Name: FEIST

Producing Formation: \_\_\_\_\_

Elevation: Ground: 1826 Kelly Bushing: 1833

Total Depth: 3578 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 265 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.

Drilling Fluid Management Plan A# I NR 12-18-09  
(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: Allow to dry and backfill

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: [Signature]

Title: President Date: 11/11/09

Subscribed and sworn to before me this 11th day of November

20 09

Notary Public: [Signature]

**Bonnie Jeffrey**  
State of Kansas  
Notary Public  
My Commission Expires

Date Commission Expires:

9/20/2010

9/20/2010

KCC Office Use ONLY

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

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DEC 14 2009

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Operator Name: Kirby Krier Oil, Inc. Lease Name: REHME-HAMMEKE Well #: 1 UNIT  
 Sec. 29 Twp. 18 S. R. 11  East  West County: BARTON

**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:

**dual spaced neutron, cement  
 bond, resistivity, microlog,**

Log Formation (Top), Depth and Datum  Sample

Name Top Datum  
 kansas city 3114  
 arbuckle 3493

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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 1/4	8 5/8	23	265	common	170	3% gel, 6% calcium
production	7 7/8	5 1/2	15.5	3556	common	180	10% salt, 5% calcium

Perforation  
 3114  
 3493

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	3162-3166	500 gal 28%	
4	3326-3332	500 gal 28%	
4	3364-3368	500 gal 28%	

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TUBING RECORD: Size: 2 7/8 Set At: 3350' Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or Enhr. October 14, 2009 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>120</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio	Gravity <u>40</u>
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DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# QUALITY OILWELL CEMENTING, INC.

623-1700

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3849

Date	10/5/09	Sec.	29	Twp.	18	Range	11 W	County	Barton	State	KS	On Location		Finish	500 PM	
Lease	Rehne-Hammeke		Well No.	1 Unit		Location Clafin, Sta 156, 35 1/2 W, S into										
Contractor	Royal Drilling Rig #2							Owner								
Type Job	Long String							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8"		T.D.	3577'												
Csg.	5 1/2" 15 1/2 #		Depth	3556'												
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.	36.37'		Shoe Joint	36.37'												
Meas Line			Displace	83 3/4 Bbls.												
<b>EQUIPMENT</b>				Amount Ordered 180sx Cem 10% Salt 5% Kel-Seg												
Pumptrk	9	No.	Cementer	Paul												
			Helper													
Bulktrk	3	No.	Driver	Dave												
			Driver													
Bulktrk	PU	No.	Driver	Neale												
			Driver													
<b>JOB SERVICES &amp; REMARKS</b>				Calcium												
Remarks:	Pump 500 gal Mud Clear															
	Mix 30 sx - Rathole															
	Mix 20 sx - Mousehole															
	Mix 130 sx															
	Land Plug															
	Plug Held															
	500 gal Mud Clear - 48															
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	KCC WICHITA															
	5/2 FLOAT EQUIPMENT															
	Guide Shoe - 1															
	Centralizer - 9 Turbos															
	Baskets - 3															
	AFU Inserts - 1															
	1 Rubber Plug															
	1 Rotating Head															
	Pumptrk Charge															
	Mileage															
	Tax															
	Discount															
	Total Charge															
X Signature																

Thank You!!

Quality Oilwell Cementing

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32, Russell, KS 67665

No. 3374

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-29-09	29	13	11	Barton	Ks		11:30
Lease <u>Rehme-Hemmick Well No. 1</u>				Location <u>ELLENWOOD Ks</u>			
Contractor <u>Royal Dels #2</u>				Owner <u>1170th 1/2 E S 110</u>			
Type Job <u>Surface</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>		T.D. <u>265</u>		Charge To <u>Rehme-Keeble</u>			
Csg. <u>3 5/8 23</u>		Depth <u>265</u>		Street			
Tbg. Size		Depth		City			
Drill Pipe		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint <u>15</u>		CEMENT Amount Ordered <u>170 sq Common 2 1/2 Gal 3 1/2 CC</u>			
Press Max.		Minimum					
Meas Line		Displace <u>16</u>		Common <u>170</u>			
Perf.				Poz. Mix			
EQUIPMENT				Gel. <u>3</u>			
				Calcium <u>6</u>			
Pumptrk <u>5</u> No.		Cementer <u>JOE</u>		Mills			
Bulktrk <u>3</u> No.		Driver <u>STEVE</u>		Salt			
Bulktrk <u>PV</u> No.		Driver <u>TOOD</u>		Flowseal			
JOB SERVICES & REMARKS							
Pumptrk Charge <u>Surface</u>				<div style="text-align: center;"> <b>RECEIVED</b>  <b>NOV 13 2009</b>  <b>KCC WICHITA</b> </div>			
Mileage <u>15</u>							
Footage							
Total				Handling <u>179</u>			
Remarks: <u>Run 7 1/2" 23" csg</u>				Mileage <u>0.03 per 1/4 mile</u>			
				Pump Truck Charge			
FLOAT EQUIPMENT							
Next Pump <u>170 sq Common 2 1/2 Gal 3 1/2 CC</u>				Guide Shoe			
<u>15" Gal 1.36 1/3</u>				Centralizer			
<u>Deep to Bld. hole</u>				Baskets <u>has been bld</u>			
<u>Close valves on CSS 200"</u>				AFU Inserts			
				<u>1 3/8 Wooden Plug</u>			
<u>Good CIRC thru JOB</u>				Rotating Head			
<u>CIRC OUT TO PER</u>				Squeez Mainfold			
<u>Thank TOOD JOE STEVE</u>				Tax			
Signature <u>Ray B...</u>				Discount			
				Total Charge			

PLEASE  
CALL  
AGAIN

3500



# PIPE TALLY

Date 10/3/09

*Kurby Krier Del*

Company

Behme-Hammeke #1

Lease

Size <u>5 1/2</u>		New <u>X</u>		Used		Limited Service		Weight <u>15.50</u>		Grade <u>API Tube</u>		Type		Range <u>R-3</u>					
Column 1		Column 2		Column 3		Column 4		Column 5		Column 6		Column 7		Column 8		Column 9		Column 10	
Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
1	21280	40	50	40	45	40	45	40	45										
2		30	50		50		45		45										
3		60	45		40		45		45										
4		40	40		40		45		45										
5		80	50		45		45		45										
6		75	50		45		40		45										
7		60	50		45		45												
8	3950		50		45		40												
9	4250		40		45		45												
10			45		45		45												
11			40		45		45												
12			50		45		45												
13			50		45		40												
14	3775		45		45		40												
15	4280		45		45		45												
16	4280		45		45		40												
17	3675		45		45		45												
18	4050		40		45		45												
19			45		45		45												
20			40		45		40												
Total	833	809	1580	808	808	808	808	808	808										

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3500 @ .60 Subtotal this page  
2150

808 Total Number of Joints  
87

3524 @ .10 GRAND TOTAL

Tallied By [Signature]  
Received In Good Order By [Signature]

Casing Head & Accessories  
 Other

Limited Service and/or Used Materials are sold "as is, without warranty either expressed or implied"



# PIPE TALLY

Date Sept 29-09

Company Kirby Kriser

Lease

Size <u>8 7/8</u>		New <u>✓</u>	Used	Limited Service <u>+</u>	Weight <u>324</u>	Grade	Type	Range <u>R-3</u>											
Column 1		Column 2		Column 3		Column 4		Column 5		Column 6		Column 7		Column 8		Column 9		Column 10	
Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
1	42	95																	
2		95																	
3		95																	
4		95																	
5		95																	
6		95																	
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
Total																			

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KCC WICHITA

Subtotal this page

6,15

Total Number of Joints

GRAND TOTAL

2520

Tallied By

*[Signature]*

Received in Good Order By

Casing Head & Accessories

Other

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### DRILLING MUD REPORT

REPORT NO. 1

DATE 9-30 20 09 DEPTH 365

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>Kisley Krier Oil, Inc</u>	CONTRACTOR <u>Royal Dig</u>	RIG NO. <u>2</u>
ADDRESS <u>Co</u>	ADDRESS <u>Doug Budig</u>	SPUD DATE <u>9-29-09</u>
REPORT FOR MR. <u>Jim Musgrave (Geo)</u>	REPORT FOR MR. <u>Doug Budig</u>	SECTION, TOWNSHIP, RANGE <u>29-185-11W</u>
WELL NAME (AND NO.) <u>Rehms - Hammcke Unit #1</u>	FIELD OR BLOCK NO. <u>9</u>	COUNTY AREA <u>Barton</u>
		STATE <u>Ks</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8</u>	No. Bits	Jet Size	Surface <u>8 5/8 @ 265</u> Ft.	Hole	Pits <u>400</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>		
Drill Pipe Size <u>4 1/2</u>	Type <u>XH</u>	Length	Intermediate <u>X</u> Ft.	Total Circulating Volume		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <u>800+</u>	
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production of Liner <u>@</u> Ft.	Mud Up Depth <u>approx 2600</u>	Bbl/Stroke <u>.139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.)		
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>	Present Activity <u>Dilig</u>	Mud Type <u>Nature mud</u>	Bbl/Min. <u>8.0</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.)			
Last Bit No.				Elevation <u>1826</u>	<u>6L</u>				

MUD PROPERTIES	
Time Sample Taken <u>9 AM</u>	
Depth (ft.) <u>365</u>	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	
Mud Gradient (psi/ft.) <u>7</u>	
Funnel Viscosity (sec./qt.) API at <u>9</u> °F	
Plastic Viscosity cp at / <u>7</u> °F	
Yield Point (lb./100 sq. ft.) <u>1</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>1</u>	
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter <u>2</u>	
Filtrate API (ml./30 min.) <u>2</u>	
API HP-HT Filtrate (ml/30 min.) °F <u>m</u>	
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/> <u>4</u>	
Alkalinity, Mud (Pm) <u>2</u>	
Alkalinity, Filtrate (Pf / Mf) <u>1</u>	
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm <input type="checkbox"/> ppb <input type="checkbox"/> ppb	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	
Sand Content (% by Vol.)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	
LCM, #/bbl	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)	

Mud Used:

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Daily Cost \$12.95 Cumulative Cost \$12.95

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>27-32</u>	FILTRATE <u>NC</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT
- Under surface to approx 2600
  - use nature mud & plenty of fresh water & jet often. Keep cut low as possible.
  - Preflush w/ priming as needed
  - 18 gal 2 cups PHPA thru 1 hole ash drill pipe on connection
  - 2 hulls

REMARKS:

Always keep hole full & pipe moving

If losing fluid mix gel & hulls in priming

\* Begin filling free tank w/ priming until full & also have priming on hand w/ following to be ready to displace @ 2600

24 gal 1 quart 1/3 dose

2 hole ash 1 lignite 2 hulls

\* At approx 2600 jet & wash down into well & run 80-100 lbs of fresh water ahead of free mud.

Thank you!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER <u>Debbie Reeta</u>	WAREHOUSE LOCATION <u>Wichita, Ks</u>	TELEPHONE <u>785-625-3531</u>
cell * 785-656-3039		



## DRILLING MUD REPORT

REPORT NO. 1

DATE 9-30 20 09 DEPTH 365

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR <u>Kisby Krier Oil, Inc</u>	CONTRACTOR <u>Royal Drly</u>	RIG NO. <u>412</u>
ADDRESS <u>Co.</u>	ADDRESS <u>Big</u>	SPUD DATE <u>9-29-09</u>
REPORT FOR MR. <u>Jim Muirgrave (Geo)</u>	REPORT FOR MR. <u>Doug Budin</u>	SECTION, TOWNSHIP, RANGE <u>29-185-11W</u>
WELL NAME AND NO. <u>Rehne - Hammeke Unit #1</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Barton</u>
		STATE <u>Ks</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8</u>	No. Bits	Jet Size	Surface <u>8 5/8 @ 265 Ft.</u>	Hole	Pits <u>400</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>		
Drill Pipe Size <u>4 1/2</u>	Type <u>XH</u>	Length	Intermediate <u>X</u>	Ft.	Total Circulating Volume	Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <u>800+</u>	
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production of Liner <u>0</u>	Ft.	Mud Up Depth <u>approx 2600</u>	Bbl/Stroke <u>.139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.)	
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>	Present Activity <u>Drly</u>		Mud Type <u>Native mud</u>	Bbl/Min. <u>8.0</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.)		
Last Bit No.					Elevation <u>1826</u>	<u>6L</u>			

MUD PROPERTIES	
Sample from <input type="checkbox"/> Flowline ( ) Pit	
Flowing Temperature	F
Time Sample Taken	<u>9AM</u>
Depth (ft.)	<u>365</u>
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	
Mud Gradient (psi/ft.)	<u>7</u>
Funnel Viscosity (sec./qt.) API at °F	<u>9</u>
Plastic Viscosity cp at / °F	<u>+</u>
Yield Point (lb./100 sq. ft.)	<u>+</u>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>1 1</u>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>e</u>
Filtrate API (ml/30 min.)	<u>e</u>
API HP-HT Filtrate (ml/30 min.) °F	<u>m</u>
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>	<u>2</u>
Alkalinity, Mud (Pm)	<u>2</u>
Alkalinity, Filtrate (Pf / Mf)	<u>1 1</u>
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	
Sand Content (% by Vol.)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	
LCM, #/bbl	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)	

Mud Used:  
1 Lime

Daily Cost \$ 12.95 Cumulative Cost \$ 12.95

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>27-32</u>	FILTRATE <u>nc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

RECOMMENDED TREATMENT

- Under surface to approx 2600
- use native mud & plenty of fresh water & jet often. Keep cut low as possible.
- Preflush w/ premix as needed
- 18 bbl 2 cups PMPA thru 1 hole and drill pipe in connections.
- 2 hulls

REMARKS:  
Always keep hole full & pipe moving  
If losing fluid mix gel & hulls w/ premix  
\* Begin filling free tank w/ premix until full & also have premix on hand w/ following to be ready to displace @ 2600  
24 gal 1 quart 1/3 dryness  
2 sacks ash 1 lignite 2 hulls  
\* At approx 2600 jet & wash down pits well & run 80-100 lbs fresh water ahead of free mud.

Thank you!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER <u>Norman Reeter</u>	WAREHOUSE LOCATION <u>Ship, Ks</u>	TELEPHONE <u>785-625-3531</u>
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cell \* 785-656-3039





**DRILLING MUD REPORT**

REPORT NO. **2**

DATE	<b>10-2</b>	20 <b>09</b>	DEPTH	<b>2785</b>
APT WELL NO.		STATE	COUNTY	WELL
				ST

OPERATOR <b>Kirley Lurie Oil Inc</b>	CONTRACTOR <b>Royal Dreg</b>	RIG NO. <b>*2</b>
ADDRESS <b>Co</b>	ADDRESS <b>Rig</b>	SPUD DATE <b>9-29-09</b>
REPORT FOR MR. <b>Jim Mungrove (Hes)</b>	REPORT FOR MR. <b>Doug Budig</b>	SECTION, TOWNSHIP, RANGE <b>29-185-11W</b>
WELL NAME AND NO. <b>Rohme - Namoreki Unit #1</b>	FIELD OR BLOCK NO.	COUNTY AREA <b>Barton</b>
		STATE <b>Ks</b>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data				
Bit Size <b>77/8</b>	No. Bits	Jet Size	Surface <b>8 3/8 @ 265 Ft.</b>	Hole <b>225</b>	Pits <b>400</b>	Pump Size x in. <b>6x14</b>	Annular Vel (FV/Min) DP <b>197</b> DC <b>356</b>				
Drill Pipe Size <b>4 1/2</b>	Type <b>XH</b>	Length	Intermediate <b>X</b>	Ft.	Total Circulating Volume <b>625</b>	Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <b>800</b>			
Drill Collar Size <b>6 1/4</b>	Length	No. Pits <b>3</b>	Production or Liner <b>@</b>	Ft.	Mud Up Depth <b>2000</b>	Bbl/Stroke <b>.139</b>	Stroke/Min. <b>60</b>	Bottoms Up (Min.) <b>28</b>			
Bit RPM <b>60</b>	Weight on Bit <b>30000</b>	Present Activity <b>Dreg</b>	Mud Type <b>Chemical mud</b>		Bbl/Min. <b>80</b>	Gal/Min. <b>536</b>	Total Circ Time (Min.) <b>78</b>				
Last Bit No.					Elevation <b>1826 GL</b>						

Sample from <input checked="" type="checkbox"/> Flowline ( ) Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<b>9:45 AM</b>		
Depth (ft.)	<b>2785</b>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<b>8.7</b>		
Mud Gradient (psi/ft.)	<b>.452</b>		
Funnel Viscosity (sec./qt.) API at °F	<b>48</b>		
Plastic Viscosity cp at / °F	<b>20</b>		
Yield Point (lb./100 sq. ft.)	<b>15</b>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<b>11/19</b>	<b>1</b>	<b>1</b>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<b>11.0</b>		
Filtrate API (ml./30 min.)	<b>8.8</b>		
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	<b>2/32</b>		
Alkalinity, Mud (Pm)	<b>1.2</b>		
Alkalinity, Filtrate (Pf / Mf)	<b>51-</b>	<b>1</b>	<b>1</b>
Salt <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/> ppm	<b>3800</b>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<b>Trace</b>		
Sand Content (% by Vol.)	<b>Trace</b>		
Solids Content (% by Vol.)	<b>2.6</b>		
Oil Content (% by Vol.)	<b>—</b>		
Water Content (% by Vol.)	<b>97.4</b>		
LCM, #/bbl	<b>7</b>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)	<b>—</b>		

Mud Used:	
<b>192 Hel</b>	
<b>16 Admix</b>	
<b>7 Cement</b>	
<b>7 Lignite</b>	
<b>14 Shells</b>	
<b>2 Dreg</b>	
Daily Cost	<b>\$4795.35</b>
Cumulative Cost	<b>\$4808.30</b>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <b>9.0-9.4</b>	VISCOSITY <b>46-50</b>	FILTRATE <b>10-12 cc</b>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT**
- Maintain viscosity @ 46-50 ml/gt
  - While dreg or test
  - Control wt 9.0-9.4 #/gal w/ water
  - at flowline
  - LCM as needed

**REMARKS:**

*Always keep hole full & pipe moving.*

*Short trip pipe, circulate to condition hole prior to coming.*

*\*Maintain every 24 hr treatment as needed*

*Hel for viscosity*      *1 Lignite*

*2 Admix*                      *1/4 Dreg*

*1 Cement*                      *3 Shells*

**Good Displace!**

**Thank you!**

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER <b>Dennis Reiter</b>	WAREHOUSE LOCATION <b>Hays, Ks</b>	TELEPHONE <b>785-625-3531</b>
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cell \* 785-656-3039



785-625-3531  
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. **3**

DATE **10-3 20 09** DEPTH **3188**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <b>Kirkby Kiva Oil Inc</b>	CONTRACTOR <b>Royal Dily</b>	RIG NO. <b>#2</b>
ADDRESS <b>Co</b>	ADDRESS <b>Big</b>	SPUD DATE <b>9-29-09</b>
REPORT FOR MR. <b>Jim Muegrave (Geo)</b>	REPORT FOR MR. <b>Doug Budig</b>	SECTION, TOWNSHIP, RANGE <b>29-185-11W</b>
WELL NAME AND NO. <b>Robme - Hammel Unit #1</b>	FIELD OR BLOCK NO. <b>1</b>	COUNTY AREA <b>Barton</b>
		STATE <b>Ks</b>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <b>7 7/8</b>	No. Bits	Jet Size	Surface <b>8 5/8 @ 265</b> Ft.	Hole <b>251</b>	Pits <b>400</b>	Pump Size x in. <b>10 x 14</b>	Annular Vel (Ft/Min) DP <b>197</b> DC <b>356</b>		
Drill Pipe Size <b>4 1/2</b>	Type <b>XH</b>	Length	Intermediate <b>X</b> Ft.	Total Circulating Volume <b>651</b>		Pump Make, Model <b>Assumed Eff.</b>	Circulation Pressure (PSI) <b>800+</b>		
Drill Collar Size <b>6 1/4</b>	Length	No. Pits <b>3</b>	Production or Liner <b>@</b> Ft.	Mud Up Depth <b>approx 2600</b>		Bbl/Stroke <b>139</b>	Stroke/Min. <b>60</b>	Bottoms Up (Min.) <b>31</b>	
Bit RPM <b>60</b>	Weight on Bit <b>30000</b>					Bbl/Min. <b>5.0</b>	Gal/Min. <b>336</b>	Total Circ Time (Min.) <b>81</b>	
Last Bit No.	Present Activity <b>DST #1</b>	Mud Type <b>Chemical mud</b>				Elevation <b>1826 GL</b>			

Sample from <input checked="" type="checkbox"/> Flowline ( ) Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken		<b>10:15 AM</b>	
Depth (ft.)		<b>3188</b>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		<b>9.3+</b>	
Mud Gradient (psi/ft.)		<b>.484</b>	
Funnel Viscosity (sec./qt.) API at °F		<b>46</b>	
Plastic Viscosity cp at / °F		<b>20</b>	
Yield Point (lb./100 sq. ft.)		<b>14</b>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		<b>9/12 1 1</b>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<b>9.5</b>	
Filtrate API (ml./30 min.)		<b>8.8</b>	
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>		<b>2/32</b>	
Alkalinity, Mud (Pm)		<b>.4</b>	
Alkalinity, Filtrate (Pf / Mf)		<b>.21 - 1 1</b>	
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<b>4000</b>	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<b>20</b>	
Sand Content (% by Vol.)		<b>trace</b>	
Solids Content (% by Vol.)		<b>6.9</b>	
Oil Content (% by Vol.)		<b>—</b>	
Water Content (% by Vol.)		<b>93.1</b>	
LCM, #/bbl		<b>1 1/4</b>	
Methylene Blue Capacity <input type="checkbox"/> (mHl mud) <input type="checkbox"/> (equiv. #/bbl. bent.)		<b>—</b>	

Mud Used:	
<b>Del</b>	
<b>2 lbs ash</b>	
<b>Quartz</b>	
<b>Lignite</b>	
<b>balls</b>	
<b>drispec</b>	
Daily Cost	<b>NA</b>
Cumulative Cost	<b>\$ 4808.30</b>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <b>9.0 - 9.4</b>	VISCOSITY <b>48 - 50</b>	FILTRATE <b>10 - 12 cc</b>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	

RECOMMENDED TREATMENT	
<input checked="" type="checkbox"/>	After DST, maintain 48-52 w/pt
<input type="checkbox"/>	while drlg, test on log
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Control wt 9.4#/gal or less w/ water at flowline.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	LCM as needed

REMARKS:

**Pipes to run casing before cement** \* Always keep hole full & pipe moving.

**flush w/ pressure**

**30 bbls pit mud** Short trip pipes to DST on log.

**50 fresh water** \* Maintain every 24 hrs treatment as needed w/:

**2 lbs ash** Del for viscosity 1 lignite

**1 cement** 2 lbs ash 1/4 drispec

**2 drisco** 1 cement 3 balls

**Thank you!**

**Note:** \* Try to be sure after each DST get off water from pits & reverse cut

**Do not only water into system**

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER <b>Herb Pectan</b>	WAREHOUSE LOCATION <b>Hayes, Ks</b>	TELEPHONE <b>785-625-3531</b>
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cell # 785-656-3039



**DRILLING MUD REPORT**

REPORT NO. **3**

DATE **10-3 20 09** DEPTH **3188**

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR <b>Kersey Kries Oil Inc</b>	CONTRACTOR <b>Royal Dry</b>	RIG NO. <b>2</b>
ADDRESS <b>Co</b>	ADDRESS <b>Dry</b>	SPUD DATE <b>9-29-09</b>
REPORT FOR MR. <b>Jim Muegner (Geo)</b>	REPORT FOR MR. <b>Doug Rudig</b>	SECTION, TOWNSHIP, RANGE <b>29-185-11W</b>
WELL NAME AND NO. <b>Rolme - Hammeke Unit #1</b>	FIELD OR BLOCK NO. <b>9</b>	COUNTY AREA <b>Barton</b>
		STATE <b>Ks</b>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <b>7 7/8</b>	No. Bits	Jet Size	Surface <b>8 5/8 @ 265 Ft.</b>	Hole <b>251</b>	Pits <b>400</b>	Pump Size x in. <b>6 x 14</b>	Annular Vel (Ft/Min) DP <b>197</b> DC <b>356</b>		
Drill Pipe Size <b>4 1/2</b>	Type <b>XH</b>	Length	Intermediate <b>X</b>	Total Circulating Volume <b>651</b>		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <b>800+</b>	
Drill Collar Size <b>6 1/4</b>	Length	No. Pits <b>3</b>	Production Liner <b>0</b>	Mud Up Depth <b>approx 2600</b>		Bbl/Stroke <b>.139</b>	Stroke/Min. <b>60</b>	Bottoms Up (Min.) <b>31</b>	
Bit RPM <b>60</b>	Weight on Bit <b>30000</b>					Bbl/Min. <b>8.0</b>	Gal/Min. <b>336</b>	Total Circ Time (Min.) <b>81</b>	
Last Bit No.	Present Activity <b>DST #1</b>	Mud Type <b>Chemical mud</b>				Elevation <b>1826 GL</b>			

Sample from <input checked="" type="checkbox"/> Flowline ( ) Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken		<b>10:15 AM</b>	
Depth (ft.)		<b>3188</b>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		<b>9.3+</b>	
Mud Gradient (psi/ft.)		<b>.484</b>	
Funnel Viscosity (sec./qt.) API at °F		<b>46</b>	
Plastic Viscosity cp at / °F		<b>20</b>	
Yield Point (lb./100 sq. ft.)		<b>14</b>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		<b>9/12 1 1</b>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<b>9.5</b>	
Filtrate API (ml./30 min.)		<b>8.8</b>	
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> AP - HT <input type="checkbox"/>		<b>2/32</b>	
Alkalinity, Mud (Pm)		<b>.4</b>	
Alkalinity, Filtrate (Pf / Mf)		<b>21- 1 1</b>	
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Chloride <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Gyp		<b>4000</b>	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<b>20</b>	
Sand Content (% by Vol.)		<b>trace</b>	
Solids Content (% by Vol.)		<b>6.9</b>	
Oil Content (% by Vol.)		<b>—</b>	
Water Content (% by Vol.)		<b>93.1</b>	
LCM, #/bbl		<b>14</b>	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)		<b>—</b>	

Mud Used:	
<b>Sel</b>	
<b>Sels ash</b>	
<b>Caustic</b>	
<b>Lignite</b>	
<b>Balls</b>	
<b>Drepper</b>	
Daily Cost	<b>NA</b>
Cumulative Cost	<b>\$ 4808.30</b>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <b>9.0 - 9.4</b>	VISCOSITY <b>48-50</b>	FILTRATE <b>10-12cc</b>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	

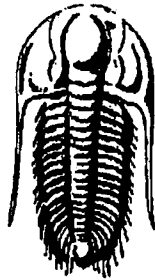
RECOMMENDED TREATMENT	
<input checked="" type="checkbox"/>	<b>After DST, maintain 48-52 sec/qt</b>
<input type="checkbox"/>	<b>while drlg, test m log</b>
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<b>Control wt 9.4#/gal or less w/</b>
<input type="checkbox"/>	<b>water at flowline.</b>
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<b>LCM as needed</b>

**REMARKS:**  
 Pries to run casing before cement \* Always keep hole full - pipe moving.  
 flush w/ presurf \* Short trip pries to DST or log.  
 30 bbls pit mud \* Maintain every 24 hrs treatment as  
 50 bbls water needed w/  
 2 sels ash Sel for viscosity 1 lignite  
 1 caustic 1/4 drepper  
 2 desca 3 balls.  
 Thank you! \* To be sure after each DST get off  
 water from pits & reverse out  
 Do not only water into system

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER <b>Herold Pecton</b>	WAREHOUSE LOCATION <b>Flap, Ks</b>	TELEPHONE <b>785-625-3531</b>
----------------------------------	---------------------------------------	----------------------------------

cell # 785-656-3039



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil, Inc.**

1043 NE 80th Road  
Clafilin, Kansas 67525

ATTN: Jim Musgrove

### 29-18s-11w Barton KS

#### Rehme-Hammeke Unit # 1

Start Date: 2009.10.03 @ 08:09:05

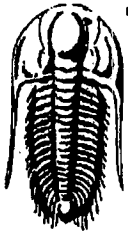
End Date: 2009.10.03 @ 14:56:35

Job Ticket #: 36483                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil, Inc.  
1043 NE 80th Road  
Clafilin, Kansas 67525  
ATTN: Jim Musgrove

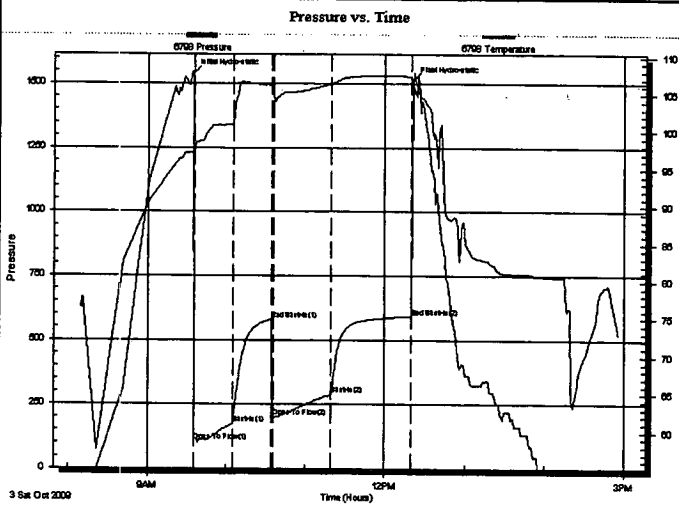
**Rehme-Hammeke Unit # 1**  
**29-18s-11w Barton KS**  
Job Ticket: 36483      DST#: 1  
Test Start: 2009.10.03 @ 08:09:05

## GENERAL INFORMATION:

Formation: **Lansing A-D**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 09:35:35  
Time Test Ended: 14:56:35  
Interval: **3110.00 ft (KB) To 3188.00 ft (KB) (TVD)**  
Total Depth: **3188.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: **Conventional Bottom Hole**  
Tester: **Jerry Adams**  
Unit No: **45**  
Reference Elevations: **1834.00 ft (KB)**  
**1826.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 6798**      **Inside**  
Press@RunDepth: **286.95 psig @ 3116.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.10.03**      End Date: **2009.10.03**      Last Calib.: **2009.10.03**  
Start Time: **08:09:06**      End Time: **14:56:35**      Time On Btm: **2009.10.03 @ 09:34:35**  
Time Off Btm: **2009.10.03 @ 12:21:05**

**TEST COMMENT:** IF: Strong blow. B.O.B. in 1 min. GTS in 10 mins. (see gas flow rerort.)  
IS: Strong blow. B.O.B. in 1 1/2 mins.  
FF: Strong blow. B.O.B. in 10 secs.  
FSI: Strong blow. B.O.B. in 30 secs.



## PRESSURE SUMMARY

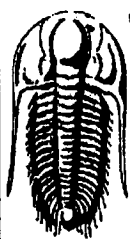
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1539.22	97.24	Initial Hydro-static
1	107.88	97.72	Open To Flow (1)
30	174.25	101.05	Shut-In (1)
60	579.69	106.15	End Shut-In (1)
61	202.86	105.02	Open To Flow (2)
105	286.95	106.36	Shut-In (2)
166	591.35	107.40	End Shut-In (2)
167	1514.12	106.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	SGCM w/ oil scum 2%g 98%m	0.21
186.00	G&OCM 25%g 10%o 65%m	2.61
62.00	SMCGsyOil 55%g 35%o 10%m	0.87
497.00	SGOO 4%g 96%o	6.97
0.00	2339' GIP	0.00
0.00	Grav. = 42 API @ 75 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.25	3.50	28.40
Max. Gas Rate	0.25	8.50	36.33



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Kirby Krier Oil, Inc.

**Rehme-Hammeke Unit # 1**

1043 NE 80th Road  
Clafilin, Kansas 67525

**29-18s-11w Barton KS**

Job Ticket: 36483

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2009.10.03 @ 08:09:05

**Tool Information**

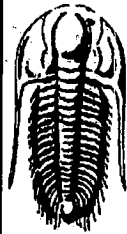
Drill Pipe:	Length: 3099.00 ft	Diameter: 3.80 inches	Volume: 43.47 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
		<b>Total Volume:</b>	<b>43.47 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3110.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Packer	5.00			3105.00	20.00 Bottom Of Top Packer
Packer	5.00			3110.00	
Stubb	1.00			3111.00	
Perforations	4.00			3115.00	
Change Over Sub	1.00			3116.00	
Recorder	0.00	6798	Inside	3116.00	
Recorder	0.00	8367	Inside	3116.00	
Blank Spacing	63.00			3179.00	
Change Over Sub	1.00			3180.00	
Perforations	5.00			3185.00	
Bullnose	3.00			3188.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Kirby Krier Oil, Inc.  
1043 NE 80th Road  
Clafilin, Kansas 67525  
ATTN: Jim Musgrove

**Rehme-Hammeke Unit # 1**  
**29-18s-11w Barton KS**  
Job Ticket: 36483      DST#: 1  
Test Start: 2009.10.03 @ 08:09:05

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40.5 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3800.00 ppm		
Filter Cake: 0.20 inches		

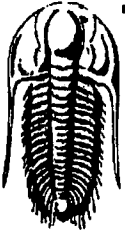
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SGCM w/ oil scum 2%g 98%m	0.210
186.00	G&OCM 25%g 10%o 65%m	2.609
62.00	SMCGsyOil 55%g 35%o 10%m	0.870
497.00	SGCO 4%g 96%o	6.972
0.00	2339' GIP	0.000
0.00	Grav. = 42 API @ 75 deg.	0.000

Total Length: 760.00 ft      Total Volume: 10.661 bbl

Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: JA-1  
Laboratory Name: Caraway      Laboratory Location: Liberal, KS  
Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Kirby Krier Oil, Inc.

**Rehme-Hammeke Unit # 1**

1043 NE 80th Road  
Clafilin, Kansas 67525

**29-18s-11w Barton KS**

Job Ticket: 36483

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2009.10.03 @ 08:09:05

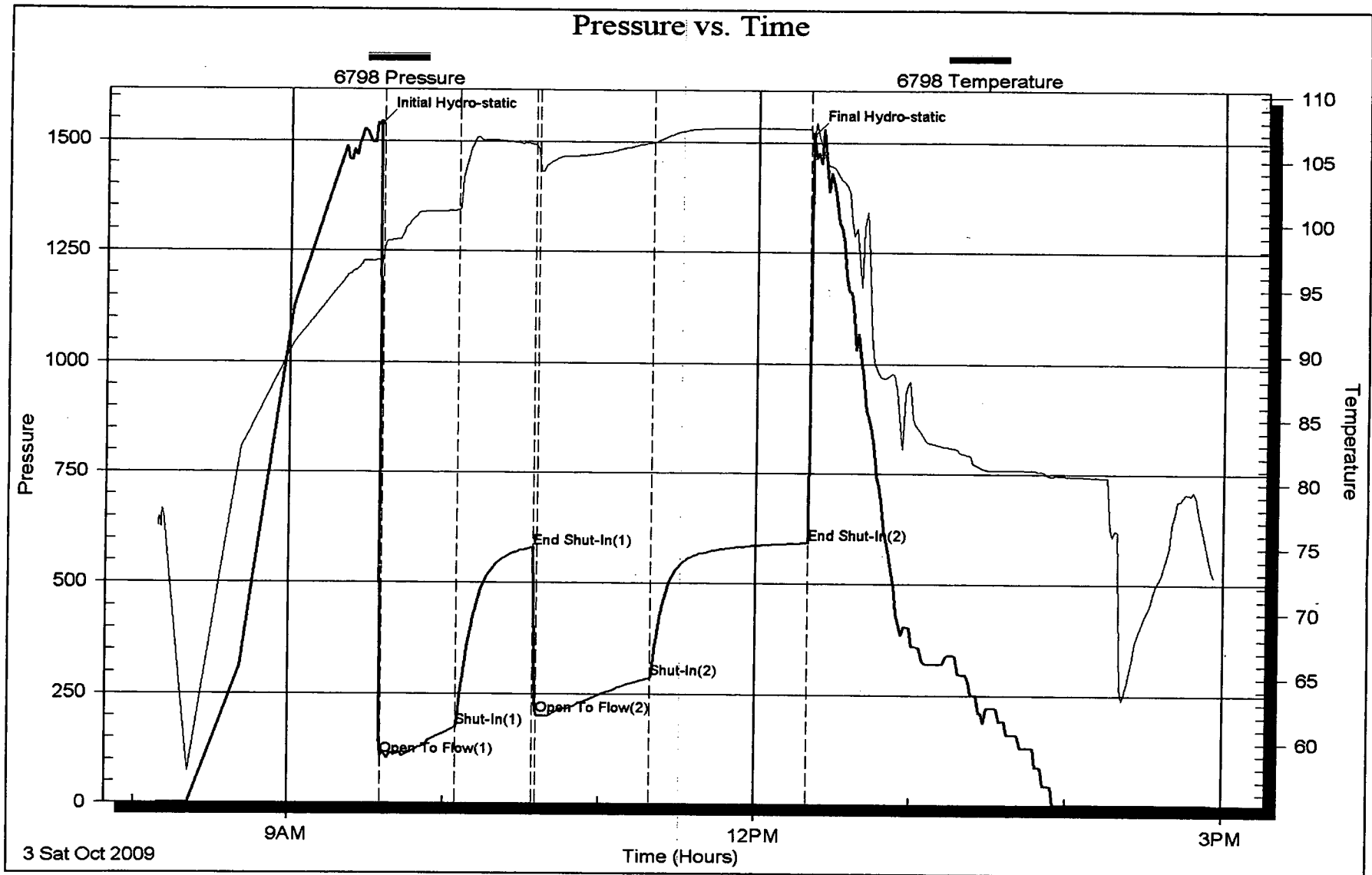
## Gas Rates Information

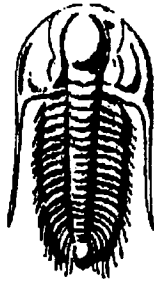
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	15	0.25	4.00	29.19
1	15	0.25	4.00	29.19
1	20	0.25	5.50	31.57
1	30	0.25	8.50	36.33
2	10	0.25	2.00	26.02
2	20	0.25	4.00	29.19
2	30	0.25	4.00	29.19
2	40	0.25	3.50	28.40







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Kirby Krier Oil, Inc.**

1043 NE 80th Road  
Claflin, Kansas 67525

ATTN: Jim Musgrove

### 29-18s-11w Barton KS

#### Rehme-Hammeke Unit # 1

Start Date: 2009.10.04 @ 03:47:47

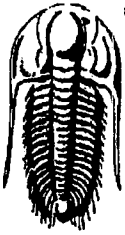
End Date: 2009.10.04 @ 09:49:47

Job Ticket #: 36484                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Kirby Krier Oil, Inc.  
1043 NE 80th Road  
Clafilin, Kansas 67525  
ATTN: Jim Musgrove

**Rehme-Hammeke Unit # 1**  
**29-18s-11w Barton KS**  
Job Ticket: 36484      DST#: 2  
Test Start: 2009.10.04 @ 03:47:47

## GENERAL INFORMATION:

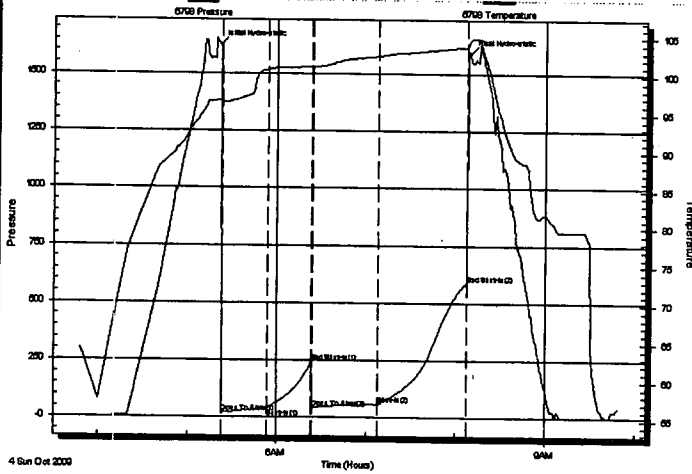
Formation: **Lansing H-K**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 05:22:47  
Time Test Ended: 09:49:47  
**Interval: 3250.00 ft (KB) To 3360.00 ft (KB) (TVD)**  
Total Depth: 3360.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole  
Tester: Jerry Adams  
Unit No: 45  
Reference Elevations: 1834.00 ft (KB)  
1826.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6798**      Inside  
Press@RunDepth: 57.60 psig @ 3256.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2009.10.04      End Date: 2009.10.04      Last Calib.: 2009.10.04  
Start Time: 03:47:48      End Time: 09:49:47      Time On Btm: 2009.10.04 @ 05:21:47  
Time Off Btm: 2009.10.04 @ 08:09:17

**TEST COMMENT:** IF:Weak blow . B.O.B. in 25 mins.  
IS:No blow .  
FF:Strong blow . B.O.B. in 15 secs.  
FSI:Weak surface blow . Dead in 32 mins.

Pressure vs. Time



## PRESSURE SUMMARY

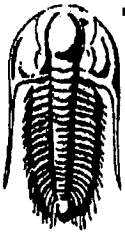
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.73	96.84	Initial Hydro-static
1	20.69	96.49	Open To Flow (1)
32	36.87	100.73	Shut-In (1)
61	239.92	101.22	End Shut-In (1)
62	42.37	101.11	Open To Flow (2)
106	57.60	102.55	Shut-In (2)
166	587.44	103.78	End Shut-In (2)
168	1590.16	104.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	G&OCM 20%g 10%o 70%m	0.70
62.00	SMOGsyOil 40%g 25%o 35%m	0.87
0.00	300' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Kirby Krier Oil, Inc.

**Rehme-Hammeke Unit # 1**

1043 NE 80th Road  
Clafilin, Kansas 67525

**29-18s-11w Barton KS**

Job Ticket: 36484

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2009.10.04 @ 03:47:47

**Tool Information**

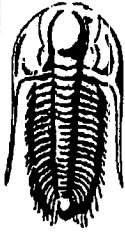
Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		<u>Total Volume:</u>	<u>45.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3250.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	130.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Packer	5.00			3245.00	20.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	4.00			3255.00	
Change Over Sub	1.00			3256.00	
Recorder	0.00	6798	Inside	3256.00	
Recorder	0.00	8367	Inside	3256.00	
Blank Spacing	95.00			3351.00	
Change Over Sub	1.00			3352.00	
Perforations	5.00			3357.00	
Bullnose	3.00			3360.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 130.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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1043 NE 80th Road  
Clafilin, Kansas 67525  
ATTN: Jim Musgrove

**Rehme-Hammeke Unit # 1**  
**29-18s-11w Barton KS**  
Job Ticket: 36484      **DST#: 2**  
Test Start: 2009.10.04 @ 03:47:47

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	Gas Cushion Type:	
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Pressure: psig		
Resistivity: 0.00 ohm.m			
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

**Recovery Table**

Length ft	Description	Volume bbl
50.00	G&OCM 20%g 10%o 70%m	0.701
62.00	SMCGsyOil 40%g 25%o 35%m	0.870
0.00	300' GIP	0.000

Total Length: 112.00 ft      Total Volume: 1.571 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

