

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

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 _____ SLOW _____
_____ 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.: _____
12/5/2009 12/11/2009 01/2/2010
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 009-25364-00-00
Spot Description: _____
W2_W2_SE Sec. 12 Twp. 19 S. R. 12 East West
1320 Feet from North / South Line of Section
2310 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: BARTON
Lease Name: ROBL Well #: 1
Field Name: CHEYENNE VIEW

Producing Formation: _____
Elevation: Ground: 1807 Kelly Bushing: 1814
Total Depth: 3394 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: _____ 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 cm.

Drilling Fluid Management Plan Att I ncr 1-25-10
(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: Kirby Krier
Title: president Date: 1/20/2010
Subscribed and sworn to before me this 20th day of January,
20 10.
Notary Public: Bonnie Jeffrey
Date Commission Expires: 1/20/2010

Bonnie Jeffrey
State of Kansas
Notary Public
My Commission Expires

KCC Office Use ONLY

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

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Operator Name: KIRBY KRIER OIL, INC. Lease Name: ROBL Well #: 1
 Sec. 12 Twp. 19 S. R. 12 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>LANSING</td> <td>3093</td> <td>-1279</td> </tr> <tr> <td>BASE KANSAS CITY</td> <td>3344</td> <td>-1530</td> </tr> <tr> <td>MARMATON</td> <td>3349</td> <td>-1535</td> </tr> <tr> <td>CONGLOMERATE</td> <td>3364</td> <td>-1550</td> </tr> <tr> <td>ARBUCKLE</td> <td>3375</td> <td>-1561</td> </tr> <tr> <td>RTD</td> <td>3394</td> <td>-1580</td> </tr> </table>	Name	Top	Datum	LANSING	3093	-1279	BASE KANSAS CITY	3344	-1530	MARMATON	3349	-1535	CONGLOMERATE	3364	-1550	ARBUCKLE	3375	-1561	RTD	3394	-1580
Name	Top	Datum																				
LANSING	3093	-1279																				
BASE KANSAS CITY	3344	-1530																				
MARMATON	3349	-1535																				
CONGLOMERATE	3364	-1550																				
ARBUCKLE	3375	-1561																				
RTD	3394	-1580																				

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	264	COMMON	180	
PRODUCTION	7 7/8	5 1/2	15.5	3380	COMMON	180	10% SALT, 5% KCL

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
	OPEN HOLE	250 GAL 15%	3380

TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>3375'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>1/2/2010 FIRST PRODUCTION</u>		Producing Method: <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. <u>45</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u>39</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

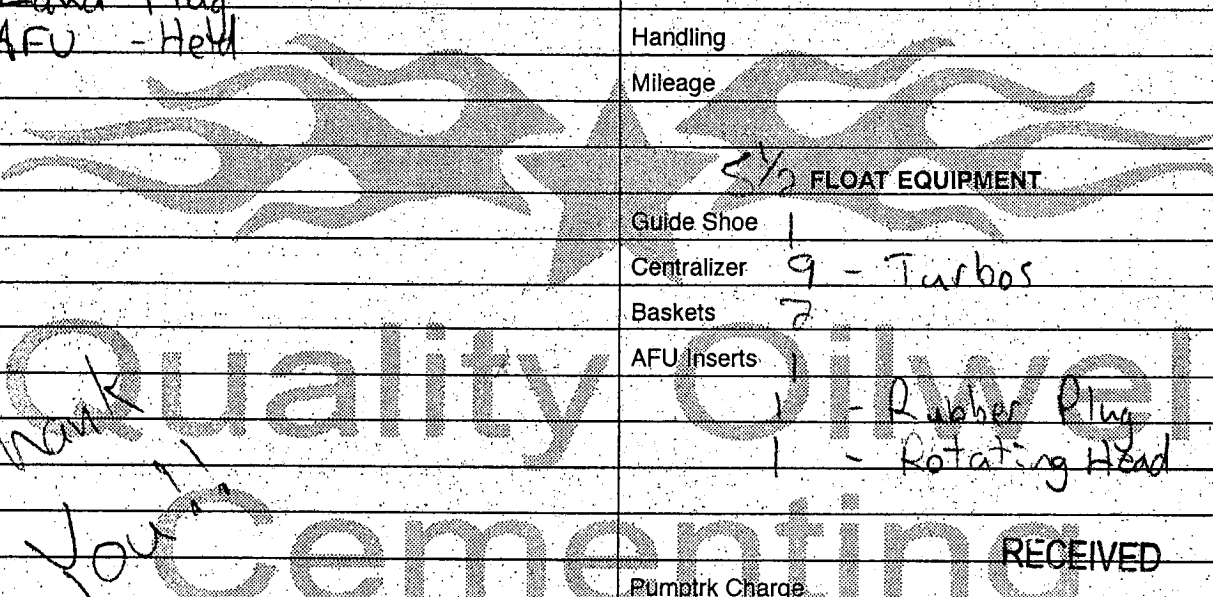
Phone 785-483-2025
Cell 785-324-1041

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

No. 3593

Date	12/12/09	Sec.	12	Twp.	19	Range	12	County	Barton	State	KS	On Location		Finish	6:15 AM	
Lease	ROBL	Well No.	1	Location BCCC, W to #6, 3 W, N into												
Contractor	Royal Drilling Dig # 2							Owner	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.							
Type Job	Long String							Charge To	Kirby Krier Oil, Inc.							
Hole Size	7 7/8"		T.D.	3394'												
Csg.	5 1/2" 15.50 #		Depth	3380'												
Tbg. Size								Street								
Tool								City	State							
Cement Left in Csg.	42		Shoe Joint	42												
Meas Line								Displace	79 1/2 Bbls. 3/4 of 1% CD-110 CEMENT							
EQUIPMENT																
Pumptrk	1	No.	Cementor	Paul												
			Helper													
Bulktrk	11	No.	Driver	Brandon												
			Driver													
Bulktrk	PU	No.	Driver	Doug												
			Driver													
JOB SERVICES & REMARKS																
Remarks:	Pump 500 gal. Mud Clear - 48							Hulls								
	Mix 30sx Rct hole							Salt								
	Mix 15sx mouse hole							Flowseal								
	Mix 135sx down 5 1/2"								500 gal Mud Clear - 48							
	Displace															
	Land Plug															
	AFU - Held							Handling								
								Mileage								
								5 1/2" FLOAT EQUIPMENT								
								Guide Shoe	1							
								Centralizer	9 - Turbos							
								Baskets	2							
								AFU Inserts	1							
									1 - Rubber Plug							
									1 - Rotating Head							
								Pumptrk Charge	RECEIVED							
								Mileage	JAN 22 2010							
									KCC WICHITA							
									Tax Discount							
									Total Charge							
Signature	Clad E. Janner															

Thank You!



QUALITY OILWELL CEMENTING, INC.

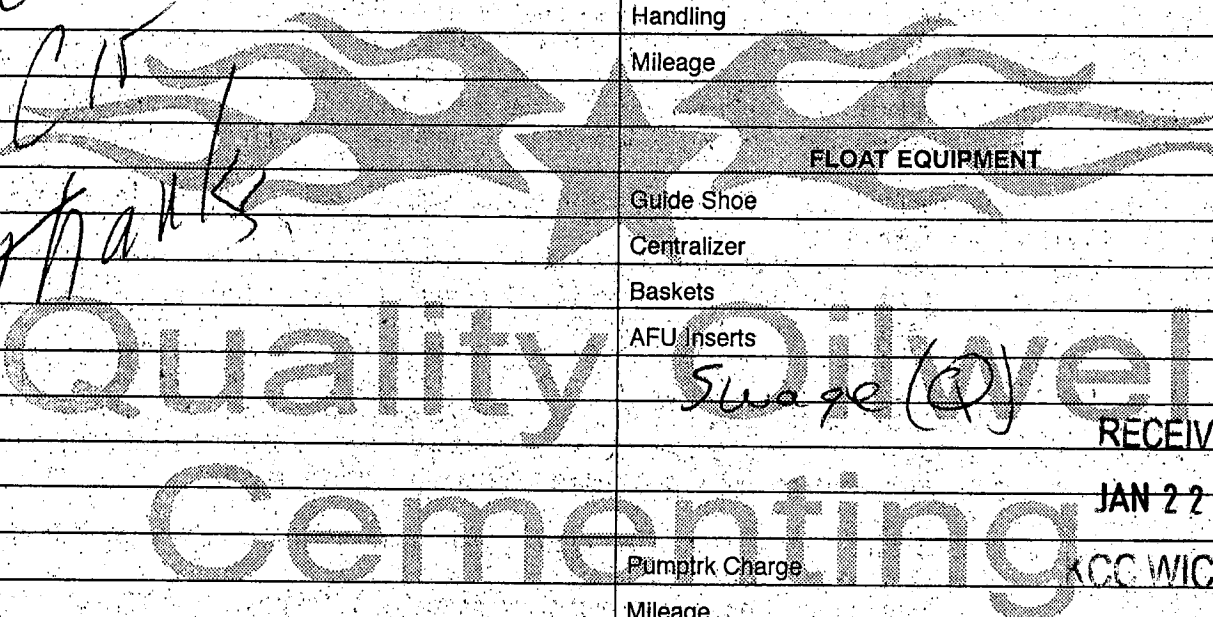
Phone 785-483-2025
Cell 785-324-1041

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

No. 3703

Date	12-5-09	Sec.	12	Twp.	19	Range	12	County	Barton	State	Ks	On Location		Finish	6:15 Pm
Lease	ROBL	Well No.	1			Location						Barton Co College E to 56 3/4 E			
Contractor	Royall Rig 2						Owner						14 W		
Type Job	Surface						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	12 1/4		T.D.		266		Charge To						Kirby Krier		
Csg.	8 1/2		Depth		264		Street								
Tbg. Size			Depth				City						State		
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg	10 1/5		Shoe Joint				CEMENT								
Meas Line			Displace		16		Amount Ordered						180 342		
EQUIPMENT							Pumptrk 9 No. Cementer						Dave		
							Helper								
Bulktrk 11 No. Driver							Doug						Common		
							Driver						Pez. Mix		
Bulktrk No. Driver													Gel.		
							Driver								
JOB SERVICES & REMARKS							Calcium								
Remarks:							Hulls								
							Salt								
							Flowseal								
							Handling								
							Mileage								
							FLOAT EQUIPMENT								
							Guide Shoe								
							Centralizer								
							Baskets								
							AFU Inserts								
							Swage (P)								
							RECEIVED								
							JAN 22 2010								
							KCC WICHITA								
							Pumptrk Charge								
							Mileage								
							Tax								
							Discount								
							Total Charge								
Signature							Doug Budwig								

*Cement
OK
Thanks*



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PIPE TALLY

Date 12/4/09

Kerby Kiser

Company _____

Lease Robert #1

	Size <u>8 5/8</u>		New <input checked="" type="checkbox"/>		Used		Limited Service		Weight <u>20</u>		Grade		Type		Range <u>23</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.
1	42	75														
2	7	95														
3	7	90														
4		90														
5	41	55														
6	40	45														
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
Total	255	50														

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6 Jts
Total Number of Joints

Subtotal this page _____

255.50 GRAND TOTAL

Casing Head & Accessories

Other

Tallied By _____

Tim [Signature]

Received In Good Order By _____

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



785-625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 1

DATE	12-6-09	DEPTH	846
APT WELL NO.	STATE	COUNTY	WELL
			S/T

OPERATOR <i>Kirby Kries Oil, Inc</i>	CONTRACTOR <i>Royal Dreg</i>	RIG NO. <i>2</i>
ADDRESS <i>Co.</i>	ADDRESS <i>Rig</i>	SPUD DATE <i>12-5-09</i>
REPORT FOR MR. <i>Jim Musgrave (Geo)</i>	REPORT FOR MR. <i>Doug Budig</i>	SECTION, TOWNSHIP, RANGE <i>12-19S-62W</i>
WELL NAME AND NO. <i>Roll 1</i>	FIELD OR BLOCK NO.	COUNTY AREA <i>Barton</i>
		STATE <i>Ks</i>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <i>7 7/8</i>	No. Bits	Jet Size	Surface <i>9 5/8 @ 266 Ft.</i>	Hole	Pits <i>400</i>	Pump Size, x in. <i>6 x 14</i>	Annular Vel (Ft/Min) DP <i>197</i> DC <i>356</i>		
Drill Pipe Size <i>4 1/2</i>	Type <i>2H</i>	Length	Intermediate <i>X</i>	Total Circulating Volume		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <i>800+</i>	
Drill Collar Size <i>6 3/4</i>	Length	No. Pits <i>3</i>	Production Liner <i>@</i>	Mud Up Depth <i>approx 2600</i>	Bbl/Stroke <i>.129</i>	Stroke/Min. <i>60</i>	Bottoms Up (Min.)		
Bit RPM <i>60</i>	Weight on Bit <i>50000</i>				Bbl/Min. <i>8.0</i>	Gal/Min. <i>336</i>	Total Circ Time (Min.)		
Last Bit No.	Present Activity	Mud Type <i>Native mud</i>			Elevation <i>1807 GL</i>				

Sample from <input type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F	12-7	
Time Sample Taken		<i>9:30 AM</i>	<i>9 AM</i>
Depth (ft.)		<i>846</i>	<i>2041</i>
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)			
Mud Gradient (psi/ft.)		<i>7</i>	<i>7</i>
Funnel Viscosity (sec./qt.) API at °F		<i>9</i>	<i>9</i>
Plastic Viscosity cp at / °F		<i>7</i>	<i>7</i>
Yield Point (lb./100 sq. ft.)		<i>1</i>	<i>1</i>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		<i>1</i>	<i>1</i>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter		<i>9</i>	<i>9</i>
Filtrate API (ml./30 min.)			
API HP-HT Filtrate (ml./30 min.) °F		<i>M</i>	<i>M</i>
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>		<i>4</i>	<i>4</i>
Alkalinity, Mud (Pm)		<i>7</i>	<i>7</i>
Alkalinity, Filtrate (Pf / Mf)			<i>1</i>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> 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:

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Daily Cost Cumulative Cost

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <i>9.0-9.4</i>	VISCOSITY <i>27-32</i>	FILTRATE <i>NC</i>
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 bit low as possible.
 - Preflush w/ prems if tight
 - Connections: 18 gel, 1 lb ash, 3 hulls

REMARKS:

Always keep hole full!

LCM as needed w/ gel & hulls if loosening fluid.

** Begin filling frac tank until full & also have Armes on stand w/ following to be ready to displaced @ 2600*

22 gel, 1 lb ash, 1 Caustic, 1 lignite, 1/3 dragage, 3 hulls

** At approx 2600 jet & wash down pits well & run 80-100 bbls 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 <i>Dennis Pector</i>	WAREHOUSE LOCATION <i>Hays, Ks</i>	TELEPHONE <i>785-625-3531</i>
cell # 785-656-3039		



ANDY'S "Mud Doctor"
MUD & CHEMICAL CO. L.L.C.
 785-625-3531
 HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 1

DATE	<u>12-6</u>	20 <u>09</u>	DEPTH	<u>846</u>
APT WELL NO.		STATE	COUNTY	WELL
				S/T

OPERATOR	<u>Kirby Kriens Oil, Inc</u>	CONTRACTOR	<u>Royal Dreg</u>	RIG NO.	<u>#2</u>
ADDRESS	<u>Co.</u>	ADDRESS	<u>Big</u>	SPUD DATE	<u>12-5-09</u>
REPORT FOR MR.	<u>Don Musgrave (Geo)</u>	REPORT FOR MR.	<u>Doug Budig</u>	SECTION, TOWNSHIP, RANGE	<u>12-19S-12W</u>
WELL NAME AND NO.	<u>Roll 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	<u>8 5/8 @ 266</u> Ft.	Hole	<u>400</u>	Pump Size, x in.	<u>6 x 14</u>	Annular Vel (Ft/Min) DP	<u>197 DC 356</u>
Drill Pipe Size	<u>4 1/2</u>	Type	Length	<u>Intermediate</u>	Total Circulating Volume		Pump Make, Model	<u>60</u>	Assumed Eff.	Circulation Pressure (PSI)
Drill Collar Size	<u>6 1/4</u>	Length	No. Pits	<u>3</u>	Production of Liner		Mud Up Depth	<u>approx 2600</u>	Bbl/Stroke	<u>.129</u>
Bit RPM	<u>60</u>	Weight on Bit		<u>30000</u>	Mud Type	<u>Native mud</u>	Bbl/Min.	<u>8.0</u>	Gal/Min.	<u>336</u>
Last Bit No.		Present Activity			Elevation	<u>1807 GL</u>			Total Circ Time (Min.)	

Sample from <input type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature		F	
Time Sample Taken	<u>9:30 AM</u>	<u>12-7</u>	
Depth (ft.)	<u>846</u>	<u>2041</u>	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)			
Mud Gradient (psi/ft.)	<u>7</u>	<u>7</u>	
Funnel Viscosity (sec./qt.) API at °F	<u>9</u>	<u>9</u>	
Plastic Viscosity cp at / °F	<u>+</u>	<u>+</u>	
Yield Point (lb./100 sq. ft.)	<u>1</u>	<u>1</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>1</u>	<u>1</u>	<u>1</u>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>e</u>	<u>e</u>	
Filtrate API (ml./30 min.)			
API HP-HT Filtrate (ml/30 min.) °F	<u>m</u>	<u>m</u>	
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>	<u>u</u>	<u>u</u>	
Alkalinity, Mud (Pm)	<u>a</u>	<u>a</u>	
Alkalinity, Filtrate (Pf / Mf)	<u>1</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> 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:

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KGC WICHITA

Daily Cost: _____ Cumulative Cost: _____

MUD PROPERTIES SPECIFICATIONS

WEIGHT	<u>9.0-9.4</u>	VISCOSITY	<u>27-32</u>	FILTRATE	<u>NC</u>
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BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

RECOMMENDED TREATMENT

- Under surface to approx 2600
- use native mud + plenty of fresh water + jet after 2600
- bit loss as possible.
- Preflush w/ presens if tight connections: 18 gal 1 hole ash 3 hulls
- 22 gal 2 hole ash 1 canister 1 lignite 1/3 prepac 3 hulls

REMARKS:

Always keep hole full!

LCM as needed w/ gel + hulls if loosening fluid.

* Begin filling frac tank until full + also have presens on hand w/ following to be ready to displace @ 2600

* At approx 2600 jet + wash down pits + well + run 80-100 bbls fresh water ahead of frac 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>Dennis Dector</u>	WAREHOUSE LOCATION	<u>Hays, Ks</u>	TELEPHONE	<u>785-625-3531</u>
----------	----------------------	--------------------	-----------------	-----------	---------------------

cell # 785-656-3039



785-625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 2

DATE <u>12-8</u>	<u>20 09</u>	DEPTH <u>2810</u>
APT WELL NO.	STATE	COUNTY
		WELL
		ST

OPERATOR <u>Kirby Krier Oil, Inc</u>	CONTRACTOR <u>Royal Dily</u>	RIG NO. <u>#2</u>
ADDRESS <u>Co.</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>12-5-09</u>
REPORT FOR MR. <u>Jim Musgrave (Geo)</u>	REPORT FOR MR. <u>Doug Budig</u>	SECTION, TOWNSHIP, RANGE <u>12-19S-12W</u>
WELL NAME AND NO. <u>ROBL1</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 @ 266 Ft.</u>	Hole <u>227</u>	Pits <u>400</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (FV/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>	Total Circulating Volume <u>627</u>		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 or Liner <u>@</u>	Mud Up Depth <u>approx 2600</u>		Bbl/Stroke <u>.159</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>28</u>	
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>					Bbl/Min. <u>8.0</u>	Gal/Min. <u>536</u>	Total Circ Time (Min.) <u>78</u>	
Last Bit No.	Present Activity <u>Dily</u>	Mud Type <u>Chemical mud</u>				Elevation <u>1367 GL</u>			

MUD PROPERTIES	
Time Sample Taken <u>9:30 AM</u>	
Depth (ft.) <u>2810</u>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>8.8</u>	
Mud Gradient (psi/ft.) <u>4.58</u>	
Funnel Viscosity (sec./qt.) API at $^{\circ}F$ <u>45</u>	
Plastic Viscosity cp at / $^{\circ}F$ <u>20</u>	
Yield Point (lb./100 sq. ft.) <u>14</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>10/16 1 1</u>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>12.0</u>	
Filtrate API (ml./30 min.) <u>8.8</u>	
API HP-HT Filtrate (ml/30 min.) $^{\circ}F$ <u>—</u>	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/> <u>2/32</u>	
Alkalinity, Mud (Pm) <u>1.8</u>	
Alkalinity, Filtrate (Pf / Mf) <u>.61- 1 1</u>	
Salt <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> spg <u>4000</u>	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>Trace</u>	
Sand Content (% by Vol.) <u>Trace</u>	
Solids Content (% by Vol.) <u>3.4</u>	
Oil Content (% by Vol.) <u>—</u>	
Water Content (% by Vol.) <u>96.6</u>	
LCM, #/bbl <u>1/4#</u>	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>—</u>	

Mud Used:	
<u>154 Gel</u>	
<u>14 Solvach</u>	
<u>7 Caustic</u>	
<u>7 Lignite</u>	
<u>21 Shells</u>	
<u>2 Dripac</u>	
Daily Cost <u>\$4421.10</u>	Cumulative Cost <u>\$4421.10</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>48-52</u>	FILTRATE <u>10-12cc</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	
<input checked="" type="checkbox"/>	<u>Suggest in premix (40 bbl) for daily</u>
<input type="checkbox"/>	<u>cons: Gel for vis 1 lignite</u>
<input type="checkbox"/>	<u>2 solvach 3 dripac</u>
<input type="checkbox"/>	<u>1 caustic 2 shells</u>
<input type="checkbox"/>	<u>Roll in premix & add back to</u>
<input type="checkbox"/>	<u>system over 1-hr period.</u>
<input type="checkbox"/>	

REMARKS:
Control wt 9.0-9.4 gal w/ stream of water at flowline.
LCM as needed

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Always keep hole full & pipe moving.
Short trip prior to DST on log

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>Dennis Rector</u>	WAREHOUSE LOCATION <u>Wichita, Ks</u>	TELEPHONE <u>785-625-3531</u>
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cell # 785-656-3039



DRILLING MUD REPORT

REPORT NO. **2**

DATE **12-8-2009** DEPTH **2810**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR Kirby Krieb Oil, Inc	CONTRACTOR Royal Drilling Rig	RIG NO. #2
ADDRESS Co.	ADDRESS	SPUD DATE 12-5-09
REPORT FOR MR. Jim Musgrave (Geo)	REPORT FOR MR. Doug Budig	SECTION, TOWNSHIP, RANGE 12-19S-12W
WELL NAME AND NO. 2111	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE Ks

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data				
Bit Size 7 7/8	No. Bits	Jet Size	Surface 8 5/8 @ 266 Ft.	Hole 227	Pits 400	Pump Size x in. 6 x 14	Annular Vel (FV/Min) DP 177 DC 356				
Drill Pipe Size 4 1/2	Type XH	Length	Intermediate 8	Total Circulating Volume 627		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) 800+			
Drill Collar Size 6 1/4	Length	No. Pits 3	Production or Liner 8	Mud Up Depth approx 2600		Bbl/Stroke .159	Stroke/Min. 60	Bottoms Up (Min.) 28			
Bit RPM 60	Weight on Bit 30000		Mud Type Chemical mud		Bbl/Min. 8.0	Gal/Min. 336	Total Circ Time (Min.) 78				
Last Bit No.	Present Activity Drilling				Elevation 1807 GL						

Sample from <input checked="" type="checkbox"/> Flowline () Pit	MUD PROPERTIES	
Flowing Temperature	F	
Time Sample Taken	9:30 AM	
Depth (ft.)	2810	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.8	
Mud Gradient (psi/ft.)	.458	
Funnel Viscosity (sec./qt.) API at °F	45	
Plastic Viscosity cp at / °F	20	
Yield Point (lb./100 sq. ft.)	14	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	10/16 1 1	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	10.0	
Filtrate API (ml./30 min.)	8.8	
API HP-HT Filtrate (ml/30 min.) °F	—	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	2/32	
Alkalinity, Mud (Pm)	1.8	
Alkalinity, Filtrate (Pf / Mf)	.61- 1 1	
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	4600	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	Trace	
Sand Content (% by Vol.)	Trace	
Solids Content (% by Vol.)	3.4	
Oil Content (% by Vol.)	—	
Water Content (% by Vol.)	96.6	
LCM, #/bbl	1 1/4#	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)	—	

Mud Used:

154	Hel
14	Solacash
7	Quatic
7	Ignite
21	Skulls
2	Drupac

Daily Cost **\$4421.10** Cumulative Cost **\$4421.10**

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.0-9.4	VISCOSITY 48-52	FILTRATE 10-12cc
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BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

RECOMMENDED TREATMENT

Suggest in premix (40 bbl) daily

mix: Hel for vis 1ignite

2 solacash 1/3 drupac

1 quatic 2 skulls

Ball in premix & add back to system over 1-hr period.

REMARKS: Control wt 9.0-9.4 gal w/ stream of water at flowline. LCM as needed

Always keep hole full & pipe moving.

Short trip prior to DST or log

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Thank you!

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ENGINEER Dennis Rector	WAREHOUSE LOCATION Wichita, Ks	TELEPHONE 785-625-3531
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cell # 785-656-3039



DRILLING MUD REPORT

REPORT NO. 3

DATE 12-9-2009 DEPTH 3170

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR <u>Kisley Kries Oil, Inc</u>	CONTRACTOR <u>Royal Dry</u>	RIG NO. <u>#2</u>
ADDRESS <u>Co</u>	ADDRESS <u>Big</u>	SPUD DATE <u>12-5-09</u>
REPORT FOR MR. <u>Jim Murgrove (Geo)</u>	REPORT FOR MR. <u>Doug Berdy</u>	SECTION, TOWNSHIP, RANGE <u>12-195-12W</u>
WELL NAME AND NO. <u>Reel #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 @ 26k Ft.</u>	Hole <u>250</u>	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>	Total Circulating Volume <u>650</u>		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 @ Liner <u>@</u>	Mud Up Depth <u>2600</u>		Bbl/Stroke <u>1.39</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>31</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>			Bbl/Min. <u>5.0</u>		Gal/Min. <u>336</u>	Total Circ Time (Min.) <u>81</u>			
Last Bit No.	Present Activity <u>DST #1</u>	Mud Type <u>Chemical mud</u>	Elevation <u>1807 GL</u>							

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES			
Flowing Temperature	F				
Time Sample Taken	<u>9 AM</u>				
Depth (ft.)	<u>3170</u>				
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.2</u>				
Mud Gradient (psi/ft.)	<u>.478</u>				
Funnel Viscosity (sec./qt.) API at °F	<u>50</u>				
Plastic Viscosity cp at / °F	<u>20</u>				
Yield Point (lb./100 sq. ft.)	<u>19</u>				
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>11/18</u>	<u>1</u>	<u>1</u>		
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>9.5</u>				
Filtrate API (ml./30 min.)	<u>8.8</u>				
API HP-HT Filtrate (ml/30 min.) °F					
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>2/32</u>				
Alkalinity, Mud (Pm)	<u>.3</u>				
Alkalinity, Filtrate (Pf / Mf)	<u>2/1</u>	<u>1</u>	<u>1</u>		
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>7000</u>				
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>40</u>				
Sand Content (% by Vol.)	<u>Trace</u>				
Solids Content (% by Vol.)	<u>6.0</u>				
Oil Content (% by Vol.)	<u>—</u>				
Water Content (% by Vol.)	<u>94.0</u>				
LCM, #/bbl	<u>1/2</u>				
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)	<u>—</u>				

Mud Used:	
<u>15 Gal</u>	
<u>2 Jokers</u>	
<u>1 Cement</u>	
<u>1 Lignite</u>	
<u>Shells</u>	
<u>Drugs</u>	
Daily Cost <u>\$ 365.95</u>	Cumulative Cost <u>\$ 4787.05</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>48-52</u>	FILTRATE <u>10-12cc</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	
<input checked="" type="checkbox"/>	<u>After DST, maintain viscosity</u>
<input checked="" type="checkbox"/>	<u>@ 48-50 sec/qt while doing test.</u>
<input checked="" type="checkbox"/>	<u>Control wt 9.4+ / gal or less</u>
<input type="checkbox"/>	<u>w/ water at flowline.</u>
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<u>LCM as needed</u>

REMARKS:
Always keep hole full & pipe moving.
Short trip prior to test on log.

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* Maintain every 24 hrs treatment:
 1 Gal for vis
 2 shells and
 1 cement
 1 Lignite
 1/2 drugs
 3 shells

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>Wendy Rector</u>	WAREHOUSE LOCATION <u>Hays, Ks</u>	TELEPHONE <u>785-625-3531</u>
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cell * 785-656-3039



785-625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 3

DATE	<u>12-9-2009</u>	DEPTH	<u>3170</u>
APT WELL NO.		STATE	
		COUNTY	
		WELL	
			ST

OPERATOR <u>Kirkby Kries Oil, Inc</u>	CONTRACTOR <u>Raymond Drey</u>	REPORT FOR MR. <u>Jim Musgrove (Geo)</u>	REPORT FOR MR. <u>Raymond Drey</u>
ADDRESS <u>Co</u>	ADDRESS <u>Rig</u>	WELL NAME AND NO. <u>Rebl #1</u>	FIELD OR BLOCK NO. <u></u>
	COUNTY AREA <u>Barton</u>		STATE <u>Ks</u>
			RIG NO. <u>2</u>
			SPUD DATE <u>12-5-09</u>
			SECTION, TOWNSHIP, RANGE <u>12-19S-12W</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 @ 266 Ft.</u>	Hole <u>250</u>	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>	Total Circulating Volume <u>650</u>		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>	Mud Up Depth <u>2600</u>		Bbl/Stroke <u>.139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>31</u>			
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>					Bbl/Min. <u>3.0</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.) <u>81</u>			
Last Bit No.	Present Activity <u>DST #1</u>	Mud Type <u>Chemical mud</u>				Elevation <u>1807 GL</u>					

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>9AM</u>		
Depth (ft.)	<u>3170</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.2</u>		
Mud Gradient (psi/ft.)	<u>.478</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>50</u>		
Plastic Viscosity cp at / °F	<u>22</u>		
Yield Point (lb./100 sq. ft.)	<u>19</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>11/18</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>9.5</u>		
Filtrate API (ml./30 min.)	<u>8.8</u>		
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>2/32</u>		
Alkalinity, Mud (Pm)	<u>.3</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>2.1</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>7100</u>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>40</u>		
Sand Content (% by Vol.)	<u>Trace</u>		
Solids Content (% by Vol.)	<u>6.0</u>		
Oil Content (% by Vol.)	<u>—</u>		
Water Content (% by Vol.)	<u>94.0</u>		
LCM, #/bbl	<u>1/2</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)	<u>—</u>		

Mud Used:	
<u>15 Mel</u>	
<u>2 Soda ash</u>	
<u>1 Caustic</u>	
<u>1 Lignite</u>	
<u>3 Shells</u>	
<u>Dreyer</u>	
Daily Cost	Cumulative Cost
<u>\$365.95</u>	<u>\$4787.05</u>
MUD PROPERTIES SPECIFICATIONS	
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>48-52</u>
	FILTRATE <u>10-12cc</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	
<input checked="" type="checkbox"/> After DST, maintain viscosity	
<input checked="" type="checkbox"/> 48-50 sec/qt while doing test.	
<input checked="" type="checkbox"/> Control wt 9.4 +/- gal or less	
<input type="checkbox"/> w/ water at flowline.	
<input checked="" type="checkbox"/> LCM as needed	

REMARKS:

Always keep hole full & pipe moving.

Short trip prior to test on log.

* Maintain every 24 hr treatment:

<u>1 mel</u>	<u>1 lignite</u>
<u>2 soda ash</u>	<u>1/2 dreyer</u>
<u>1 caustic</u>	<u>3 shells</u>

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Thank you!

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ENGINEER <u>Herold Rector</u>	WAREHOUSE LOCATION <u>2 Hays, Ks</u>	TELEPHONE <u>785-625-3531</u>
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cell * 785-656-3039



785-625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 4

DATE 12-10-2009 DEPTH 3189

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>Kisley Krier Oil, Inc</u>	CONTRACTOR <u>Royal Drilling</u>	RIG NO. <u>#2</u>
ADDRESS <u>Co</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>12-5-09</u>
REPORT FOR MR. <u>Jim Musgrave (Geo)</u>	REPORT FOR MR. <u>Doug Budig</u>	SECTION, TOWNSHIP, RANGE <u>12-19S-12W</u>
WELL NAME AND NO. <u>Label #1</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Barton</u>
		STATE <u>Ko</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 @ 266 Ft.</u>	Hole <u>251</u>	Pits <u>402</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>2H</u>	Length	Intermediate <u>X</u>	Total Circulating Volume <u>651</u>		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>	Mud Up Depth <u>2600</u>		Bbl/Stroke <u>1139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>31</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>			Bbl/Min. <u>810</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.) <u>81</u>				
Last Bit No.	Present Activity <u>DST #2</u>	Mud Type <u>Chemical mud</u>			Elevation <u>1807 GL</u>					

MUD PROPERTIES	
Time Sample Taken <u>8:30 AM</u>	
Depth (ft.) <u>3189</u>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>9.2</u>	
Mud Gradient (psi/ft.) <u>4.78</u>	
Funnel Viscosity (sec./qt.) API at °F <u>48</u>	
Plastic Viscosity cp at / °F <u>20</u>	
Yield Point (lb./100 sq. ft.) <u>15</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>10/18</u>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>9.5</u>	
Filtrate API (ml./30 min.) <u>10.4</u>	
API HP-HT Filtrate (ml./30 min.) °F <u>2/32</u>	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/> <u>.3</u>	
Alkalinity, Mud (Pm) <u>.21</u>	
Alkalinity, Filtrate (Pf / Mf)	
Salt <input type="checkbox"/> ppm Chloride <input checked="" type="checkbox"/> ppm <u>3000</u>	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>40</u>	
Sand Content (% by Vol.) <u>Trace</u>	
Solids Content (% by Vol.) <u>6.0</u>	
Oil Content (% by Vol.) <u>—</u>	
Water Content (% by Vol.) <u>44.0</u>	
LCM, #/bbl <u>5</u>	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>—</u>	

Mud Used:	<u>Nil</u>
	<u>Yokohama</u>
	<u>Geostic</u>
	<u>Synrite</u>
	<u>Shells</u>
	<u>Muspar</u>
Daily Cost <u>NA</u>	Cumulative Cost <u>\$4787.05</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>48-52</u>	FILTRATE <u>10-12cc</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
- After DST, maintain vis 48-50 mg/gal
 - while drilling on test. Log @ 50'
 -
 - Control wt 9.4 mgal or less w/ stream
 - if water as needed
 -
 - LCM as needed

REMARKS:

* Maintain every 24 hrs treatment as needed

Hal for vis
2 shells ash
1 cement

1/3 Synrite
3 shells

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Always keep hole full & pipe moving
short trip prior to test on log

Thank you!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED 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>Dennis Pester</u>	WAREHOUSE LOCATION <u>Hays, Ks</u>	TELEPHONE <u>785-625-3531</u>
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cell * 785-656-3039



785-625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 5

DATE 12-11-2009 DEPTH 336.3

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <i>Kirby Krier Oil, Inc</i>	CONTRACTOR <i>Royal Drilg Rig</i>	RIG NO. <i>*2</i>
ADDRESS <i>Co</i>	ADDRESS <i>Rig</i>	SPUD DATE <i>12-5-09</i>
REPORT FOR MR. <i>Jim Musgrave (Geo)</i>	REPORT FOR MR. <i>Doug Biedig</i>	SECTION, TOWNSHIP, RANGE <i>12-19S-12W</i>
WELL NAME AND NO. <i>Robl #1</i>	FIELD OR BLOCK NO.	COUNTY AREA <i>Barton</i>
		STATE <i>Ko</i>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data			
Bit Size <i>7 7/8</i>	No. Bits	Jet Size	Surface <i>8 7/8 @ 266 Ft.</i>	Hole <i>262</i>	Pits <i>400</i>	Pump Size x in. <i>6x14</i>	Annular Vel (Ft/Min) DP <i>197</i> DC <i>556</i>			
Drill Pipe Size <i>4 1/2</i>	Type <i>XH</i>	Length	Intermediate <i>X</i>	Total Circulating Volume <i>662</i>		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) <i>800+</i>		
Drill Collar Size <i>6 1/4</i>	Length	No. Pits <i>3</i>	Production Liner <i>@</i>	Mud Up Depth <i>2600</i>		Bbl/Stroke <i>.139</i>	Stroke/Min. <i>60</i>	Bottoms Up (Min.) <i>33</i>		
Bit RPM <i>60</i>	Weight on Bit <i>30000</i>	Present Activity <i>Drilg</i>	Mud Type <i>Chemical mud</i>	Bbl/Min. <i>8.0</i>	Gal/Min. <i>356</i>	Total Circ Time (Min.) <i>83</i>				
Last Bit No.				Elevation <i>1807 GS</i>						

MUD PROPERTIES	
Time Sample Taken <i>8AM</i>	
Depth (ft.) <i>336.3</i>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <i>9.3</i>	
Mud Gradient (psi/ft.) <i>.484</i>	
Funnel Viscosity (sec./qt.) API at °F <i>58</i>	
Plastic Viscosity cp at / °F <i>.26</i>	
Yield Point (lb./100 sq. ft.) <i>.20</i>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <i>14/22 1 1</i>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <i>8.0</i>	
Filtrate API (ml./30 min.) <i>16.0</i>	
API HP-HT Filtrate (ml/30 min.) °F	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> <i>.52</i>	
Alkalinity, Mud (Pm) <i>.4</i>	
Alkalinity, Filtrate (Pf / Mf) <i>.21- 1 1</i>	
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <i>15000</i>	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <i>80</i>	
Sand Content (% by Vol.) <i>Trace</i>	
Solids Content (% by Vol.) <i>7.5</i>	
Oil Content (% by Vol.)	
Water Content (% by Vol.) <i>92.5</i>	
LCM, #/bbl <i>1#</i>	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)	

Mud Used:	
<i>Hel</i>	
<i>Solwash</i>	
<i>Caustic</i>	
<i>Lignite</i>	
<i>Shells</i>	
<i>Dispers</i>	
Daily Cost <i>NA</i>	Cumulative Cost <i>\$ 4787.05</i>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <i>9.0-9.4</i>	VISCOSITY <i>48-52</i>	FILTRATE <i>10-12cc</i>
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
- Suggest in premix w/ fresh water
 - 20 gal 2 lignite
 - 3 solwash 1/2 dispers
 - 2 caustic 4-6 shells
 - Pool in premix, jet hole = add to system over 1 1/2 hr period

REMARKS:
 30 bbl put bond
 50 bbl fresh water
 2 solwash
 1 caustic
 2 dispers
 Pool in premix & add ahead of cement.
 Control w/ 9.4 or less w/ water at flowline
 LCM as needed
 Always keep hole full & pipe moving.
 Short trip pipe, prior to test or log.

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Thank You!

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ENGINEER <i>Almond Pector</i>	WAREHOUSE LOCATION <i>Alton, Ko</i>	TELEPHONE <i>785-625-3531</i>
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cell # 785-656-3059



DRILLING MUD REPORT

REPORT NO. **5**

DATE **12-11-2009** DEPTH **3363**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR Kirby Krier Oil, Inc	CONTRACTOR Royal Drilling	RIG NO. #2
ADDRESS Co	ADDRESS Rig	SPUD DATE 12-5-09
REPORT FOR MR. Jim Musgrove (Geo)	REPORT FOR MR. Doug Budig	SECTION, TOWNSHIP, RANGE 12-17S-12W
WELL NAME AND NO. Robl #1	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE Ko

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size 7/8	No. Bits	Jet Size	Surface 8 5/8 @ 266 Ft.	Hole 262	Pits 400	Pump Size x in. 6x14	Annular Vel (F/Min) DP 197 DC 356		
Drill Pipe Size 4 1/2	Type XH	Length	Intermediate X	Total Circulating Volume 662		Pump Make, Model	Assumed Eff.	Circulation Pressure (PSI) 800	
Drill Collar Size 6 1/4	Length	No. Pits 3	Production of Liner @	Mud Up Depth 2600		Bbl/Stroke 1.139	Stroke/Min. 60	Bottoms Up (Min.) 33	
Bit RPM 60	Weight on Bit 30000					Bbl/Min. 8.0	Gal/Min. 356	Total Circ Time (Min.) 83	
Last Bit No.	Present Activity Drilling		Mud Type Chemical mud			Elevation 1807			

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	8AM		
Depth (ft.)	3363		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	9.3		
Mud Gradient (psi/ft.)	.484		
Funnel Viscosity (sec./qt.) API at °F	58		
Plastic Viscosity cp at / °F	26		
Yield Point (lb./100 sq. ft.)	20		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	14/22	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	8.0		
Filtrate API (ml./30 min.)	16.0		
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input type="checkbox"/> AP - HT <input type="checkbox"/>	2/32		
Alkalinity, Mud (Pm)	.4		
Alkalinity, Filtrate (Pf / Mf)	21-	1	1
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	15000		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	80		
Sand Content (% by Vol.)	Trace		
Solids Content (% by Vol.)	7.5		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	92.5		
LCM, #/bbl	1#		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:	
Gel	
Soda ash	
Caustic	
Lignite	
Hulls	
Drigger	
Daily Cost	NA
Cumulative Cost	\$ 4787.05

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.0-9.4	VISCOSITY 48-52	FILTRATE 10-12cc
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> OPERATOR'S REPRESENTATIVE		<input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OTHER

RECOMMENDED TREATMENT	
<input checked="" type="checkbox"/>	Suggest in premix w/ fresh water
<input type="checkbox"/>	if mix following:
<input type="checkbox"/>	20 gel 2 lignite
<input type="checkbox"/>	3 soda ash 1/2 drigger
<input type="checkbox"/>	2 caustic 4-6 hulls
<input type="checkbox"/>	fuel in premix, jet hole = add
<input type="checkbox"/>	to system over 1 1/2 hr period

REMARKS:

If run casing mix in premix Central wt 9.4 or less w/ water at flowline

30 bbl put bond

50 bbl fresh water h.c.m. as needed

2 soda ash

1 caustic

2 drigger Always keep hole full & pipe moving.

fuel in premix & add Short trip pipe, prior to test or log.

ahead of cement.

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Thank you!

ENGINEER Alanna Pector	WAREHOUSE LOCATION Hays, Ko	TELEPHONE 785-625-3531
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cell* 785-656-3059

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