

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9951
Name: Kirby Krier Oil, Inc.
Address 1: 1043 NE 80TH RD.
Address 2: _____
City: CLAFLIN State: KS Zip: 67525 + 9159
Contact Person: KIRBY KRIER
Phone: (620) 562-7637
CONTRACTOR: License # 33905
Name: ROYAL DRILLING, INC.
Wellsite Geologist: JOSH AUSTIN
Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

09/27/2011 10/03/2011 10/14/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-009-25615-00-00

Spot Description: _____

S2 NENE Sec. 23 Twp. 16 S. R. 12 East West

990 Feet from North / South Line of Section

660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: BARTON

Lease Name: MINNIE Well #: 9

Field Name: _____

Producing Formation: _____

Elevation: Ground: 1913 Kelly Bushing: 1920

Total Depth: 3421 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 395 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

(Data must be collected from the Reserve Pit)

Chloride content: 68000 ppm Fluid volume: 400 bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market Room 2078 Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Kirby Krier

Title: president Date: 12/6/11

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Dlg Date: 12/13/11

Operator Name: Kirby Krier Oil, Inc. Lease Name: MINNIE Well #: 9
 Sec. 23 Twp. 16 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 complete copy of all Electric Wire-line 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 type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input 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>RADIATION GUARD</td> <td>350</td> <td>3421</td> </tr> <tr> <td>CEMENT BOND</td> <td>2180</td> <td>3391</td> </tr> </table>	Name	Top	Datum	RADIATION GUARD	350	3421	CEMENT BOND	2180	3391
Name	Top	Datum								
RADIATION GUARD	350	3421								
CEMENT BOND	2180	3391								

CASING RECORD <input 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	12.25	8.626	20	395	common	200	3%cc, 2%gel
production	7.875	5.5	15.5	3418	common	180	10% salt, 5%g

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
2	3352-3360	none	

TUBING RECORD: Size: 2 7/8 Set At: 3390 Packer At: Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	30		0		40

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 type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
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Phone 785-483-2025
Cell 785-324-1041

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

No. 5172

Date	9-28-11	Sec.	23	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	7:00 AM
Lease	Minnie		Well No.	#9		Location	Beaver, Ks - 3 E to Stop Sign								
Contractor	XXXXXXXXXX		Royal #2		Owner	3/4 N' - w/ Into									
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.	395'											
Csg.	8 5/8"		Depth	395'											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	15'		Shoe Joint	15'											
Meas Line			Displace	24 BLS		Cement Amount Ordered	200 SX Common 3% CC								

EQUIPMENT

Pumptrk	1	No.	Cementér	Cisco
			Helper	
Bulktrk	10	No.	Driver	Brian S.
			Driver	
Bulktrk	p.u.	No.	Driver	Rick
			Driver	

2% Gel
Common ~~200~~ 190
Poz. Mix
Gel. 4
Calcium ~~0~~

JOB SERVICES & REMARKS

Remarks: Cement did Circulate.
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

Hulls
Salt
Flowseal
Kol-Seal
Mud CLR 48
CFL-117 or CD110 CAF 38

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

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Pumptrk Charge Surface KCC WICHITA
Mileage 31

Tax
Discount
Total Charge

X Signature

[Handwritten Signature]

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025

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

No. 5214

Cell 785-324-1041

Date	10/3/11	Sec	23	Twp	16	Range	12	County	Barton	State	KS	On Location		Finish	2:00 PM
Lease	Minnie	Well No.	9	Location		Rever, 3 E, 1/4 N, Winto									
Contractor	Royal Drilling Rig #2							Owner							
Type Job	Production 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.		3421'		Charge To: Kirby Krier Oil, Inc.									
Csg.	5 1/2"	15.50#	Depth		3418'		Street								
Tbg. Size			Depth		City										
Tool			Depth		State										
Cement Left in Csg.	23'	Shoe Joint		23'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas-Line			Displace		81 Bbls		Cement Amount Ordered 180 ex Com 10% Salt 5% Gls								

EQUIPMENT

Pumptrk	9	No.	Cement Helper	Paw	Common
Bulktrk	14	No.	Driver	Matt	Poz. Mix
Bulktrk	00	No.	Driver	Brain	Gel

JOB SERVICES & REMARKS

Remarks:		Calcium
Rat Hole	30 ex	Hulls
Mouse Hole	20 ex	Salt
Centralizers	1, 2, 3, 4, 5, 6, 7, 8, 9	Flowseal
Baskets	3, 4	Kol-Seal
D/V or Port Collar		Mud CLR 48
Est Circ	1/2" how	500 gal
Pump	500 gal Mud CLR 48	CFL-117 or CD110 CAF 38
Plug	for mouse	Sand
Mix	130 ex down 5 1/2"	Handling
Displace		Mileage
Land	plug	5 1/2
Float	HPH	FLOAT EQUIPMENT
		Guide Shoe
		Centralizer
		9 Turbos
		Baskets
		2
		AFU Inserts
		1
		Float Shoe
		Latch-Down
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		Rubber Plug
		Rotating Head
		KCC WICHITA
		Pumptrk Charge
		Mileage
		Tax
		Discount
		Total Charge

X Signature *Ray Burr*



PIPE TALLY

Visit our website www.midwesternpipeworks.com

Date 9/26/11

Kirby Krier Oil

Company

Minnie #9

Lease

Size <u>8518</u>		New <input checked="" type="checkbox"/>		Used		Limited Service		Weight <u>24</u>		Grade		Type		Range <u>R3</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	38	45																	
2	38	0																	
3	39	40																	
4	40	40																	
5	40	85																	
6	35	60																	
7	40	05																	
8	41	05																	
9	35	0																	
10	38	10																	
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
Total <u>388</u>		<u>60</u>																	

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Subtotal this page

10 Total Number of Joints

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KCC WICHITA

Tallied By

388.60 GRAND TOTAL

Casing Head & Accessories

per [Signature]
 Other
 Received In Good Order By

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



PIPE TALLY

Visit our website www.midwesternpipeworks.com

Date Oct-2-11

Kirby Krier Oil Inc
Company

Minnie #9
Lease

Bear 3E 3/4N west 1/4

API TUBE Femen processed by MWPW

Size <u>5 1/2</u>		New <u>X</u>		Used		Limited Service		Weight <u>15.5</u>		Grade <u>S-55</u>		Type <u>LTC</u>		Range <u>12-3</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	45	42 45	42	45	42	45	42	45										
2								31	65										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18								40	45										
19								40	45										
20								40	45										
Total	849	-	849	-	849	-	843	-	74	10									

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Subtotal this page

82

Total Number of Joints

34696.10

GRAND TOTAL

Tallied By

Received In Good Order By

Casing Head & Accessories

Other



Drilling Mud Report

Report no. 1
 Date: 9/28/11
 Depth: 395

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE(GEO)	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface	Hole	75	Pump Size	6 x 14	Annular Vel (Ft/Min)	
No. Bits	2	8 5/8 @ 395	Pits	400	Pump Make / Model		DP	DC
Drill Pipe	4 1/2	Intermediate	Total Circ Vol.	475	BBL / Stroke	0.139	197	356
Type	XH		Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI	800
Drill Collar	6 1/4	Production	Mud Type	NATIVE	BBL / Min.	8	Bottoms Up (min)	
Bit RPM	60		Activity	W.O.C.	Gal. / Min.	336	9	
Weight on Bit	30000		Pits used	3	Elevation		TTL (Min.)	59
Sample Taken From Flowline	x	Pit	Flowing Temp.		MUD COSTS			

MUD PROPERTIES		PRODUCT		Daily Cost	Total	\$12.95
Time Sample Taken	8AM			On Hand	add Del.	Used cost
Depth (ft.)	395	Premium Gel		249	249	
Weight (ppg)		Hulls		71	71	
Mud Gradient (psi/ft)	0.000	Soda Ash		23	23	
Funnel Viscosity (sec/qt.)		Caustic Beads		13	13	
Plastic Viscosity cp at /		Lignite		13	13	
Yield Point (lb./100 sq. ft.)		Lime		4	5	1
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min		Drispac		4	4	
pH Strip / Meter		Desco		2	2	
Filtrate API (ml./30 min.)		PHPA		2	2	
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0	
Cake Thickness 32nd in. API		Barite		0	0	
Alkalinity, Mud (Pm)		Misc. cost				
Alkalinity, Filtrate (Pf/Mf)						
Chlorides (ppm)		Mud Properties Specifications				
Calcium (ppm)		Weight	< 9.4	Viscosity	27-32	Filtrate N/C

REMARKS:		Recommended Tour Treatment	
KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT		UNDER SURFACE USE PLENTY OF FRESH WATER AND JET OFTEN TO KEEP MUD WEIGHT LOW AS POSSIBLE UNDER 9.4 #/GAL	
USE GEL AND HULLS IF LOSING FLUID		DISPLACE AT GEOLOGIST REQUEST- RECOMMEND 2600 FT.:	
DRILL ALL SANDS SLOWLY		HAVE FRAC, AND PREMIX FULL WHEN READY TO DISPLACE	
SWEEP HOLE AS NEEDED FOR TIGHT CONNECTIONS		PREMIX TO 80-100 BBL FRESH WATER	
18 P-GEL, 1 SODA ASH, 4 HULLS		24-26 P-GEL	
OR ADD PHPA AT DRILLSTRING (2-3 VIS CUPS)		2 SODA ASH	
		1 CAUSTIC	
		1 LIGNITE	
		1/3 SACK DRISPAC (MIX SLOWLY 2 MIN. PER POUND)	
		4 HULLS	
		RECOMMEND RUN 80 TO 100 BBL FRESH WATER AHEAD OF FRAC MUD	
		** IN LAST PREMIX TANK FOR MUD UP ADD 1 EXTRA CAUSTIC, 1 EXTRA LIGNITE**	

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RESERVE Chlorides=	
CALCIUM=	
VOLUME=	

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 it's agents, and are statements of opinion only.

ENGINEER	DENNIS RECTOR	WAREHOUSE	HAYS	PHONE	785-625-3531 (cell)785-656-3039
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"GO WITH THE EXPERIENCE"



Drilling Mud Report

Report no. 1

Date: 9/28/11

Depth: 395

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE(GEO)	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	75	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @	395	Pits	400	Pump Make / Model		DP
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	475	BBL / Stroke	0.139	197
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI
Drill Collar	6 1/4	Production		Mud Type	NATIVE	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	W.O.C.	Gal. / Min.	336	9
Weight on Bit	30000			Pits used	3	Elevation		TTL (Min.)
Sample Taken From Flowline	x	Pit		Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost		Total		\$12.95
Time Sample Taken	8AM			On Hand	add Del.	Used		cost
Depth (ft.)	395		Premium Gel	249	249			
Weight (ppg)			Hulls	71	71			
Mud Gradient (psi/ft)	0.000		Soda Ash	23	23			
Funnel Viscosity (sec/qt.)			Caustic Beads	13	13			
Plastic Viscosity cp at /			Lignite	13	13			
Yield Point (lb./100 sq. ft.)			Lime	4	5	1		
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min.			Drispac	4	4			
pH Strip / Meter			Desco	2	2			
Filtrate API (ml./30 min.)			PHPA	2	2			
API HP-HT Filtrate (ml./30 min.)	xxx		RH Vis	0	0			
Cake Thickness 32nd in. API			Barite	0	0			
Alkalinity, Mud (Pm)			Misc. cost					
Alkalinity, Filtrate (Pf/Mf)								

Mud Properties Specifications		Recommended Tour Treatment	
Calcium (ppm)		Weight	< 9.4
Sand Content (% by Vol.)	TR	Viscosity	27-32
Solids Content (% by Vol.)		Filtrate	N/C
Oil Content (% by Vol.)	xxx	UNDER SURFACE USE PLENTY OF FRESH WATER AND JET OFTEN TO KEEP MUD WEIGHT LOW AS POSSIBLE UNDER 9.4 #/GAL DISPLACE AT GEOLOGIST REQUEST- RECOMMEND 2600 FT.: HAVE FRAC, AND PREMIX FULL WHEN READY TO DISPLACE PREMIX TO 80-100 BBL FRESH WATER 24-26 P-GEL 2 SODA ASH 1 CAUSTIC 1 LIGNITE 1/3 SACK DRISPAC (MIX SLOWLY 2 MIN. PER POUND) 4 HULLS RECOMMEND RUN 80 TO 100 BBL FRESH WATER AHEAD OF FRAC MUD ** IN LAST PREMIX TALK FOR MUD UP ADD 1 EXTRA CAUSTIC, 1 EXTRA LIGNITE**	
Water Content (% by Vol.)	100.0		
LCM, #/bbl			
Methylene Blue Capacity	xxx		

REMARKS:
KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT
USE GEL AND HULLS IF LOSING FLUID
DRILL ALL SANDS SLOWLY
SWEEP HOLE AS NEEDED FOR TIGHT CONNECTIONS
18 P-GEL, 1 SODA ASH, 4 HULLS
OR ADD PHPA AT DRILLSTRING (2-3 VIS CUPS)

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RESERVE Chlorides=	
CALCUIM=	
VOLUME=	

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	DENNIS RECTOR	WAREHOUSE	HAYS	PHONE	785-625-3531 (cell)785-656-3039
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"GO WITH THE EXPERIENCE"



Drilling Mud Report

Report no. 2

Date: 9/30/11

Depth: 2704

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE(GEO)	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	220	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @ 395		Pits	400	Pump Make / Model		DP DC
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	620	BBL / Stroke	0.139	197 356
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI 800
Drill Collar	6 1/4	Production		Mud Type	NATIVE	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	DRLG	Gal. / Min.	336	28
Weight on Bit	30000			Pits used	3	Elevation	1913	TTL (Min.) 78
Sample Taken From Flowline		x	Pit	Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost	\$4,375.90	Total	\$4,388.85
Time Sample Taken	2:30PM			On Hand	add Del.	Used	cost
Depth (ft.)	2704	Premium Gel		114	249	135	
Weight (ppg)	8.7	Hulls		51	71	20	
Mud Gradient (psi/ft)	0.452	Soda Ash		11	23	12	
Funnel Viscosity (sec/qt.)	54	Caustic Beads		8	13	5	
Plastic Viscosity cp at /	28	Lignite		8	13	5	
Yield Point (lb./100 sq. ft.)	14	Lime		4	5	0	
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min.	12/26	Drispac		2	4	2	
pH Strip / Meter	10.5	Desco		2	2	0	
Filtrate API (ml./30 min.)	9.2	PHPA		2	2	0	
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0	0	
Cake Thickness 32nd in. API	1/32	Barite		0	0	0	
Alkalinity, Mud (Pm)	2.2						
Alkalinity, Filtrate (Pf/Mf)	1.0/---	Misc. cost					

Mud Properties Specifications		Recommended Tour Treatment	
Calcium (ppm)	NA	Weight	< 9.4
Sand Content (% by Vol.)	TR	Viscosity	48-50
Solids Content (% by Vol.)	2.7	Filtrate	10-12cc

MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING

RUN STREAM WATER @ FLOWLINE TO CONTROL WT. 9-9.4#/GAL

LCM AS NEEDED

REMARKS:

KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT

USE GEL AND HULLS IF LOSING FLUID

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.

KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.

IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:

GEL FOR VISCOSITY 1/3 DRISPAC SLOWLY

2 SODA ASH 4-6 HULLS

1 CAUSTIC SODA

1 LIGNITE

GOOD DISPLACEMENT!

THANK YOU!

RESERVE Chlorides=	68000
CALCUIM=	400
VOLUME=	600

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ENGINEER	DENNIS RECTOR	WAREHOUSE	HAYS	PHONE	785-625-3531 (cell)785-656-3039
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"GO WITH THE EXPERIENCE"



Drilling Mud Report

Report no. 2

Date: 9/30/11

Depth: 2704

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. co JIM MUSGROVE(GEO)	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	220	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @	395	Pits	400	Pump Make / Model		DP
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	620	BBL / Stroke	0.139	197
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI
Drill Collar	6 1/4	Production		Mud Type	NATIVE	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	DRLG	Gal. / Min.	336	28
Weight on Bit	30000			Pits used	3	Elevation	1913	TTL (Min.)
Sample Taken From Flowline	x	Pit		Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost	\$4,375.90	Total	\$4,388.85
Time Sample Taken	2:30PM			On Hand	add Del.	Used	cost
Depth (ft.)	2704	Premium Gel		114	249	135	
Weight (ppg)	8.7	Hulls		51	71	20	
Mud Gradient (psi/ft)	0.452	Soda Ash		11	23	12	
Funnel Viscosity (sec/qt.)	54	Caustic Beads		8	13	5	
Plastic Viscosity cp at /	28	Lignite		8	13	5	
Yield Point (lb./100 sq. ft.)	14	Lime		4	5	0	
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min.	12/26	Drispac		2	4	2	
pH Strip / Meter	10.5	Desco		2	2	0	
Filtrate API (ml./30 min.)	9.2	PHPA		2	2	0	
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0	0	
Cake Thickness 32nd in. API	1/32	Barite		0	0	0	
Alkalinity, Mud (Pm)	2.2						
Alkalinity, Filtrate (Pf/Mf)	1.0/---	Misc. cost					

Mud Properties Specifications		Recommended Tour Treatment	
Calcium (ppm)	NA	Weight	< 9.4
Sand Content (% by Vol.)	TR	Viscosity	48-50
Solids Content (% by Vol.)	2.7	Filtrate	10-12cc
Oil Content (% by Vol.)	xxx	MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING	
Water Content (% by Vol.)	97.3	RUN STREAM WATER @ FLOWLINE TO CONTROL WT. 9-9.4#/GAL	
LCM, #/bbl	2#	LCM AS NEEDED	
Methylene Blue Capacity	xxx		

REMARKS:
KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT
USE GEL AND HULLS IF LOSING FLUID

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.
KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.
IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:
GEL FOR VISCOSITY 1/3 DRISPAC SLOWLY
2 SODA ASH 4-6 HULLS
1 CAUSTIC SODA
1 LIGNITE
GOOD DISPLACEMENT!

THANK YOU!

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RESERVE Chlorides=	68000
CALCUIM=	400
VOLUME=	600

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ENGINEER	DENNIS RECTOR	WAREHOUSE	HAYS	PHONE	785-625-3531 (cell)785-656-3039
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"GO WITH THE EXPERIENCE"



Drilling Mud Report

Report no. 3

Date: 10/1/11 Depth: 3117

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface	Hole	246	Pump Size	6 x 14	Annular Vel (Ft/Min)	
No. Bits	2	8 5/8 @ 395	Pits	400	Pump Make / Model		DP	DC
Drill Pipe	4 1/2	Intermediate	Total Circ Vol.	646	BBL / Stroke	0.139	197	356
Type	XH		Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI	800
Drill Collar	6 1/4	Production	Mud Type	CHEMICAL	BBL / Min.	8	Bottoms Up (min)	
Bit RPM	60		Activity	DRLG	Gal. / Min.	336	31	
Weight on Bit	30000		Pits used	3	Elevation	1913	TTL (Min.)	81

Sample Taken From Flowline x Pit Flowing Temp. MUD COSTS

MUD PROPERTIES		PRODUCT	Daily Cost	NA	Total	\$4,388.85
Time Sample Taken	9:30 AM		On Hand	add Del.	Used	cost
Depth (ft.)	3117	Premium Gel	114	249		
Weight (ppg)	8.9	Hulls	51	71		
Mud Gradient (psi/ft)	0.463	Soda Ash	11	23		
Funnel Viscosity (sec/qt.)	55	Caustic Beads	8	13		
Plastic Viscosity cp at /	28	Lignite	8	13		
Yield Point (lb./100 sq. ft.)	12	Lime	4	5		
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min.	14/25	Drispac	2	4		
pH Strip / Meter	9.5	Desco	2	2		
Filtrate API (ml./30 min.)	8.8	PHPA	2	2		
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis	0	0		
Cake Thickness 32nd in. API	1/32	Barite	0	0		
Alkalinity, Mud (Pm)	1.6					
Alkalinity, Filtrate (Pf/Mf)	.9/---	Misc. cost				

Mud Properties Specifications

Calcium (ppm)	20	Weight	< 9.4	Viscosity	48-50	Filtrate	10-12cc
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Recommended Tour Treatment
 MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING.
 RUN STREAM WATER @ FLOWLINE TO CONTROL WT.9-9.4#/GAL
 LCM AS NEEDED

REMARKS:

KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.
 KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.
 IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:
 GEL FOR VISCOSITY 1/3 DRISPAC SLOWLY
 2 SODA ASH 4-6 HULLS
 1 CAUSTIC SODA 1 LIGNITE

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RESERVE Chlorides=	68000
CALCIUM=	400
VOLUME=	600

THANK YOU!

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Drilling Mud Report

Report no. **3**

Date: **10/1/11**

Depth: **3117**

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	246	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @ 395		Pits	400	Pump Make / Model		DP
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	646	BBL / Stroke	0.139	197
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI
Drill Collar	6 1/4	Production		Mud Type	CHEMICAL	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	DRLG	Gal. / Min.	336	31
Weight on Bit	30000			Pits used	3	Elevation	1913	TTL (Min.)
Sample Taken From Flowline	x	Pit		Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost	NA	Total	\$4,388.85
Time Sample Taken	9:30 AM			On Hand	add Del.	Used	cost
Depth (ft.)	3117	Premium Gel		114	249		
Weight (ppg)	8.9	Hulls		51	71		
Mud Gradient (psi/ft)	0.463	Soda Ash		11	23		
Funnel Viscosity (sec/qt.)	55	Caustic Beads		8	13		
Plastic Viscosity cp at /	28	Lignite		8	13		
Yield Point (lb./100 sq. ft.)	12	Lime		4	5		
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min.	14/25	Drispac		2	4		
pH Strip / Meter	9.5	Desco		2	2		
Filtrate API (ml./30 min.)	8.8	PHPA		2	2		
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0		
Cake Thickness 32nd in. API	1/32	Barite		0	0		
Alkalinity, Mud (Pm)	1.6						
Alkalinity, Filtrate (Pf/Mf)	9/---	Misc. cost					

Mud Properties Specifications		Recommended Tour Treatment	
Calcium (ppm)	20	Weight	< 9.4
Sand Content (% by Vol.)	TR	Viscosity	48-50
Solids Content (% by Vol.)	4.2	Filtrate	10-12cc
Oil Content (% by Vol.)	xxx	MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING.	
Water Content (% by Vol.)	95.8	RUN STREAM WATER @ FLOWLINE TO CONTROL WT.9-9.4#/GAL	
LCM, #/bbl	2#	LCM AS NEEDED	
Methylene Blue Capacity	xxx		

REMARKS:
KEEP HOLE FULL ON ALL TRIPS- VERY IMPORTANT

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.
 KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.
 IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:
 GEL FOR VISCOSITY 1/3 DRISPAC SLOWLY
 2 SODA ASH 4-6 HULLS
 1 CAUSTIC SODA 1 LIGNITE

THANK YOU!

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RESERVE Chlorides=	68000
CALCUIM=	400
VOLUME=	600

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Drilling Mud Report

Report no. 4

Date: 10/2/11 Depth: 3357

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	261	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @ 395		Pits	400	Pump Make / Model		DP DC
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	661	BBL / Stroke	0.139	197 356
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI 800
Drill Collar	6 1/4	Production		Mud Type	chemical	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	DST#1	Gal. / Min.	336	33
Weight on Bit	30000			Pits used	3	Elevation	1913	TTL (Min.) 83
Sample Taken From Flowline	x	Pit		Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost	NA	Total	\$4,393.60
Time Sample Taken	8AM			On Hand	add Del.	Used	cost
Depth (ft.)	3357	Premium Gel		114	249		
Weight (ppg)	9.4	Hulls		51	71		
Mud Gradient (psi/ft)	0.489	Soda Ash		11	23		
Funnel Viscosity (sec/qt.)	49	Caustic Beads		8	13		
Plastic Viscosity cp at /	22	Lignite		8	13		
Yield Point (lb./100 sq. ft.)	12	Lime		4	5		
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min	10/18	Drispac		2	4		
pH Strip / Meter	8.5	Desco		2	2		
Filtrate API (ml./30 min.)	9.6	PHPA		2	2		
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0		
Cake Thickness 32nd in. API	1/32	Barite		0	0		
Alkalinity, Mud (Pm)	0.9						
Alkalinity, Filtrate (Pf/Mf)	5/---	Misc. cost					

Mud Properties Specifications		Weight	<9.4	Viscosity	48-50	Filtrate	10-12cc
Chlorides (ppm)	4000	Recommended Tour Treatment					
Calcium (ppm)	20	MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING OR LOGGING.					
Sand Content (% by Vol.)	TR	RUN STREAM WATER @ FLOWLINE TO CONTROL WT. 9-9.4#/GAL					
Solids Content (% by Vol.)	7.5	LCM AS NEEDED					
Oil Content (% by Vol.)	xxx						
Water Content (% by Vol.)	92.5						
LCM, #/bbl	2#						
Methylene Blue Capacity	xxx						

REMARKS:

KEEP HOLE FULL ON ALL TRIPS

IF RUN CASING, RUN DESCO FLUSH
30 BBLs PIT MUD
50 BBLs FRESH WATER
1 CAUSTIC SODA
1 SODA ASH
2 DESCO
ADD AHEAD OF CEMENT

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.

KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.

IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:
GEL FOR VISCOSITY
2 SODA ASH
1 CAUSTIC SODA
1 LIGNITE
1/3 DRISPAC SLOWLY
4-6 HULLS

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RESERVE Chlorides=	68000
CALCIUM=	400
VOLUME=	600

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Drilling Mud Report

Report no. 4

Date: 10/2/11 Depth: 3357

OPERATOR: ADDRESS: REPORT FOR	KRIER, KIRBY OIL, INC. CO JIM MUSGROVE	CONTRACTOR ADDRESS: REPORT FOR	ROYAL DRLG Rig DOUG BUDIG	RIG NO. SPUD DATE COUNTY	#2 September 27, 2011 BARTON
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WELL NAME	MINNIE #9	SEC	23	TOWNSHIP	16	RANGE	12	W
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Drilling Assembly		Casing		Mud Volume (BBL)		Circulation Data		
Bit Size	7 7/8	Surface		Hole	261	Pump Size	6 x 14	Annular Vel (Ft/Min)
No. Bits	2	8 5/8 @ 395		Pits	400	Pump Make / Model		DP
Drill Pipe	4 1/2	Intermediate		Total Circ Vol.	661	BBL / Stroke	0.139	197
Type	XH			Mud up Dpth.	2600	Stroke / Min.	60	Circ PSI
Drill Collar	6 1/4	Production		Mud Type	chemical	BBL / Min.	8	Bottoms Up (min)
Bit RPM	60			Activity	DST#1	Gal. / Min.	336	33
Weight on Bit	30000			Pits used	3	Elevation	1913	TTL (Min.)
Sample Taken From Flowline	x	Pit		Flowing Temp.		MUD COSTS		

MUD PROPERTIES		PRODUCT		Daily Cost	NA	Total	\$4,393.60
Time Sample Taken	8AM			On Hand	add Del.	Used	cost
Depth (ft.)	3357	Premium Gel		114	249		
Weight (ppg)	9.4	Hulls		51	71		
Mud Gradient (psi/ft)	0.489	Soda Ash		11	23		
Funnel Viscosity (sec/qt.)	49	Caustic Beads		8	13		
Plastic Viscosity cp at /	22	Lignite		8	13		
Yield Point (lb./100 sq. ft.)	12	Lime		4	5		
Gel Strength (lb.100 sq. ft.) 10 sec/ 10 min	10/18	Drispac		2	4		
pH Strip / Meter	8.5	Desco		2	2		
Filtrate API (ml./30 min.)	9.6	PHPA		2	2		
API HP-HT Filtrate (ml./30 min.)	xxx	RH Vis		0	0		
Cake Thickness 32nd in. API	1/32	Barite		0	0		
Alkalinity, Mud (Pm)	0.9						
Alkalinity, Filtrate (Pf/Mf)	5/---	Misc. cost					

Mud Properties Specifications		Recommended Tour Treatment	
Calcium (ppm)	20	Weight	<9.4
Sand Content (% by Vol.)	TR	Viscosity	48-50
Solids Content (% by Vol.)	7.5	Filtrate	10-12cc
Oil Content (% by Vol.)	xxx	MAINTAIN 48-50 VISCOSITY WHILE DRLG OR TESTING OR LOGGING.	
Water Content (% by Vol.)	92.5	RUN STREAM WATER @ FLOWLINE TO CONTROL WT. 9-9.4#/GAL	
LCM, #/bbl	2#	LCM AS NEEDED	
Methylene Blue Capacity	xxx		

REMARKS:

KEEP HOLE FULL ON ALL TRIPS

IF RUN CASING, RUN DESCO FLUSH
30 BBLs PIT MUD
50 BBLs FRESH WATER
1 CAUSTIC SODA
1 SODA ASH
2 DESCO
ADD AHEAD OF CEMENT

ALWAYS KEEP HOLE FULL & PIPE MOVING. SHORT TRIP PIPE PRIOR TO TESTING.

KEEP PREMIX ON HAND TO USE LATER TO WORK IN NO. 2 PIT TO SYSTEM.

IF NEEDED VISCOSITY, USE PIT MUD IN PREMIX UNLESS WT. CLIMBS ABOVE 9.3, THEN USE 1/2 PIT MUD & 1/2 FRESH WATER:
GEL FOR VISCOSITY
2 SODA ASH
1 CAUSTIC SODA
1 LIGNITE
1/3 DRISPAC SLOWLY
4-6 HULLS

THANK YOU!

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RESERVE Chlorides=	68000
CALCIUM=	400
VOLUME=	600

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