

ORIGINAL 2/09/10

Form ACO-1
October 2008
Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

*Ken
Bry
2/12/09*

CONFIDENTIAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31514
Name: Thoroughbred Associates, LLC
Address 1: 8100 E. 22nd St North
Address 2: Bldg, 600, Suite F
City: Wichita State: KS Zip: 67226
Contact Person: Robert C. Patton
Phone: (316) 685-1512
CONTRACTOR: License # 5147
Name: Beredco Inc.
Wellsite Geologist: Bryan Bynog
Purchaser: N/A
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.)

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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.: P+A 11/30/08
11/20/08 11/30/08 12/1/08
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 135-24872-0890
Spot Description: _____
NW NE SE SW Sec. 4 Twp. 19 S. R. 22 East West
2436 Feet from North / South Line of Section
2013 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ness
Lease Name: BK Well #: 1-4
Field Name: N/A
Producing Formation: N/A
Elevation: Ground: 2154 Kelly Bushing: 2163
Total Depth: 4504 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 257 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/ PA-Dlg-4/20/09 ^{sq gmt.}

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 21000 ppm Fluid volume: 1500 bbls
Dewatering method used: Vacuum Truck
Location of fluid disposal if hauled offsite:
Operator Name: Ritchie
Lease Name: Sears SWD License No.: 4767
Quarter _____ Sec. 6 Twp. 20 S. R. 21 East West
County: Ness Docket No.: D-11577

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 GP-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: Robert C. Patton
Title: Managing Partner Date: 2-10-2009
Subscribed and sworn to before me this 10th day of February
20 09
Notary Public: Diana E Bell
Date Commission Expires: Aug 10, 2011

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

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

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CONSERVATION DIVISION
WICHITA, KS

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Operator Name: Thoroughbred Associates, LLC

Lease Name: BK

FEB 09 2009

Well #: 1-4

Sec. 4 Twp. 19 S. R. 22 East West

County: Ness

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INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3634	-1471
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LKC	3679	-1516
List All E. Logs Run: <u>PREVIOUSLY SUBMITTED E-LOGS</u>		BKC	3982	-1819
DIL, CNL/CDL, MEL, BHCS		Ft. Scott	4175	-2012
		Miss	4270	-2107

*For
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2/10/09*

CASING RECORD New 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"	8.625"	20	257	Common	165	2% gel, 3% cc

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

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TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i>				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 33598

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

SERVICE POINT:
Ness City

DATE <u>11-20-08</u>	SEC <u>4</u>	TWP <u>19s</u>	RANGE <u>22W</u>	CALLED OUT <u>5:00 pm</u>	ON LOCATION <u>8:00 pm</u>	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>BK</u>	WELL # <u>1-4</u>	LOCATION <u>Bazine, 3w to "AA" Rd, 1s, 1/2w</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>5 into</u>				

CONTRACTOR Beredco #10
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 257.85
 CASING SIZE 8 5/8 DEPTH 257.85
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 350 psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 15Ft
 CEMENT LEFT IN CSG. 15ft
 PERFS. _____
 DISPLACEMENT Freshwater

OWNER Berexco
 CEMENT
 AMOUNT ORDERED 16.5sx Common, 3%cc, 2% gel

EQUIPMENT
 PUMP TRUCK # 447 CEMENTER Tyler
 HELPER Alvin
 BULK TRUCK # 456/198 DRIVER Jeff
 BULK TRUCK # _____ DRIVER _____

COMMON	<u>189</u> SKs	@	<u>13.65</u>	<u>2,252.25</u>
POZMIX	66 SKs	@	7.50	501.60
GEL	<u>3</u> SKs	@	<u>20.40</u>	<u>61.20</u>
CHLORIDE	<u>6</u> SKs	@	<u>57.15</u>	<u>342.90</u>
ASC		@		
		@	KCC	
		@	FEB 09 2009	
		@	CONFIDENTIAL	
		@		
		@		
HANDLING	<u>174</u> SKs	@	<u>2.25</u>	<u>391.50</u>
MILEAGE	<u>10.4</u> x <u>sk/mile</u>			<u>312.00</u>
TOTAL				<u>3,115.75</u> <u>3,359.85</u>

REMARKS:
pipe on bottom break circulation mix
16.5sx, 3%cc, 2% gel, shut down, Release
plug, displace with 154 bbls Fresh water,
shut down, close in. Rig down,
Cement did circulate

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

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 TOTAL 1,180.00

Thank You.

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

CONSERVATION DIVISION PLUG & FLOAT EQUIPMENT
 WICHITA KS

<u>8 7/8 wooden plug</u>	@	<u>67.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>67.00</u>

PRINTED NAME X Marvin B. Julian DISCOUNT _____ IF PAID IN 30 DAYS
 SIGNATURE X Marvin B. Julian

SALES TAX (If Any) _____
 TOTAL CHARGES _____

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **6**

Daily Drilling Mud Report

Date: **11/25/08** Depth: **3488**

Operator Thoroughbred Associates, LLC.		Contractor Beredco Drilling		Rig No. 10	
Address Rig		Address Rig		Spud Date 11/20/08	
Report for Mr. Rob Patton/ Bryan Bynog		Report for Mr. Charlie Schniepp		Section 4	Twp 19S
Well Name & No. #1-4 BK		County Ness		State Kansas	

Operation CTCH/ weight up		Casing 8 5/8 in. at 258		Mud Volume (BBL) Hole 331 Pits 400		Circulation Data Liner Size 6 Stroke 16		Opposite Drill Pipe 182		Pump Pressure -	
Bit Size (in.) 7 7/8	No 2	Intermediate in. at		Total Circulating Vol. 731		Est. Hole/DS capacities 9.5 2.573		Opposite Drill Collars 364		Pump Make Ideal	
Drill pipe sz 4	Type H90	Production / Liner in. at		Volume in Storage 0		BB/ Strk 0.156	Strk / Min. 52	Bottoms Up (Min.) 35		Pump Model C-250	
Drill Collar size 6 1/4	523	Drilling mud type chemical		BBL./Min. 8.1		GAL./Min. 341		System Total (Min) 90		Critical GPM DC/DP 166 261	

Sample from Flowline x or Pit	Daily Mud Cost 4,507.75	Cumulative Mud Cost 11,594.80
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Time Sample Taken	Mud Properties		Drilling
	2:30 AM	9:45 AM	
Depth (Ft.)	3,488	3,509	
Weight (lb/gal.)	9.1	8.9	
Mud Gradient (psi/ft.)	0.473	0.462	
Funnel Viscosity (Sec/qt. API)	36	36	
Plastic Viscosity (cp)	5	6	
Yield Point (lb/100 sq.ft.)	9	7	
Gel Strength 10 sec/10 min.	6/17	0.4	
pH	9.0	8.5	
Filtrate API (ml/30 min.)	28.4	25.6	
Cake Thickness 32nd	2	2	
Alkalinity, Mud (Pm)	-	-	
Alkalinity, Filtrate (Pf/Mf)	.38/-	.12/-	
Chloride Content, ppm	17,300	15,400	
Calcium, ppm	480	640	
Sand Content (% by Vol)	Tr	Tr	
Solids Content (% by Vol.)	4.7	3.4	
Oil Content (% by Vol.)	0.0	0	
Water Content (% by Vol.)	95.3	96.4	
LCM, lbs/bbl.	0	0	
Reynold's #DP	3,034	3034	
Reynold's # DC	6,121	6121	
ECD lb/gal	9.59	9.59	

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.2-9.5	42-45	8-12.0	as needed

Suggest...

Water - only as needed to control mud wt. 9.2-9.5 #/gal.

Do not cut #2 pit in until mud wt. is 9.3 #/gal.

After bit trip, mix the following into existing premix, then add to system over 1 1/2 hours through pump

- 4 sx Soda Ash
- 3 Caustic
- 1 Lignite
- 1 1/2 sx Pac
- Gel for viscosity

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Trip slowly while making bit trip and don't shake pipe, break circulation 3-4 times on TIH w/ bit

After bit trip and resume drilling:

Maintain 42-45 sec/qt. viscosity with the following premix after above premix is added

- 50 bbls fresh water/ 50 bbls pit mud
- 3 Soda Ash
- 2 Caustic
- 1 Lignite
- 1/2 sx Pac
- Gel as needed
- 12 sx Barite (Add Bar if mud wt. is below 9.2 #/gal.)

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LCM as needed with c/s hulls

Tourly while drilling: 1 sx Caustic
1/2 sx Lignite

*Add tourly at chemical bbl or in 40 bbls pit mud through premix, add to system over 2 hours

THANK YOU!

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	568		425	143	1,394.25
Lime	1		1		
Soda Ash	20		10	10	252.50
Caustic Soda	16		16		
Lignite	14		12	2	56.00
C/S Hulls	142		142		
Drill Pak	3		3		
Desco	2		2		
Poly Plus	1		1		
Barite	40	160	35	165	2,805.00
Xcide					
Sapp					
Barite					
MiiGuard					

Mud-Co / Service Mud Representative
Jason Whiting

Home Address
Great Bend, Kansas

Telephone Number
620-792-4544

Cell: **620-282-0556**

Warehouse Location
Hays, Kansas

Telephone Number
785-621-4323

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **7**

Daily Drilling Mud Report

Date: **11/26/08** Depth: **3945**

Operator Thoroughbred Associates, LLC.	Contractor Beredco Drilling	Rig No. 10
Address Operators Address	Address Rig	Spud Date 11/20/08
Report for Mr. Rob Patton/ Bryan Bynog	Report for Mr. Charlie Schniepp	Section 4 Twp 19S Range 22W
Well Name & No. #1-4 BK	County Ness	State Kansas

Operation drilling	Casing 8 5/8 in. at 258	Mud Volume (BBL) Hole 355 Pits 400	Circulation Data			
Present Activity			Liner Size 6	Stroke 16	Opposite Drill Pipe 231	Pump Pressure 950
Bit Size (in.) 7 7/8	No 2	Total Circulating Vol. 755	Est. Hole/DS capacities 9 2.573		Opposite Drill Collars 420	Pump Make G-D
Drill pipe sz 4 1/2	Type XH	Volume in Storage 0	BBL/ Strk 0.156	Strk / Min. 60	Bottoms Up (Min.) 32	Pump Model FXH
Drill Collar size 6 1/4	Drilling mud type chemical		BBL./Min. 9.4	GAL./Min. 393	System Total (Min) 81	Critical GPM DC/DP 266 377

Sample from Flowline <u> </u> or Pit <u> </u>	Daily Mud Cost 4,761.20	Cumulative Mud Cost 16,356.00
Flowline Temperature <u> </u>	Mud Properties	

Time Sample Taken	10:20 AM
Depth (Ft.)	3,945
Weight (lb/gal.)	9.6
Mud Gradient (psi/ft.)	0.499
Funnel Viscosity (Sec/qt. API)	52
Plastic Viscosity cp	13
Yield Point (lb/100 sq.ft.)	18
Gel Strength 10 sec/10 min.	11/44
pH	10.5
Filtrate API (ml/30 min.)	11.2
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	-
Alkalinity, Filtrate (Pf/Mf)	1.19/-
Chloride Content, ppm	11,600
Calcium, ppm	40
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	8.6
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	91.4
LCM, lbs/bbl.	1
Reynold's #DP	2,128
Reynold's # DC	3,600
ECD lb/gal	10.34

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.2-9.6	46-50	8-10.0	as needed

Suggest...

Run small stream of water at flowline while drilling to control mud wt. 9.2-9.6 #/gal.

Mix and add the following premix to system, allow #2 pit to back fill with this premix and cut #2 pit in as volume allows

- 80 bbls fresh water
- 1 Soda Ash
- 1 Caustic
- 1 Lignite
- 1/2 sx Pac
- Gel as needed

*Add premix as needed for vis or to control mud wt. Add to system over 1 1/2 hours

*Use 50 bbls pit mud/ 50 bbls fresh water if mud wt. is 9.3 #/gal. or below

LCM as needed with c/s hulls at flowline

Tourly while drilling: 1 sx Caustic
1/2 sx Lignite

*Add tourly at chemical bbl or in 40 bbls pit mud through premix, add to system over 2 hours

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DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	425		249	176	1,716.00
Lime	1			1	11.00
Soda Ash	10			10	252.50
Caustic Soda	16		4	12	786.60
Lignite	12		8	4	112.00
C/S Hulls	142		120	22	386.10
Drill Pak	3			3	990.00
Desco	2		2		
Poly Plus	1			1	184.00
Barite	35		16	19	323.00
Xcide					
Sapp					
Barite					
MilGuard					

Suggest short trip prior to DST #1, trip slowly and don't shake pipe, break circulation on all TIH w/ bit

Circulate hole clean prior to all trips and keep hole full

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THANK YOU!

CONSERVATION DIVISION
WICHITA, KS

Mud-Co / Service Mud Representative: Jason Whiting	Home Address Great Bend, Kansas	Telephone Number 620-792-4544
Cell: 620-282-0556	Warehouse Location Hays, Kansas	Telephone Number 785-621-4323

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **8**

Daily Drilling Mud Report

Date: **11/27/08** Depth: **4206**

Operator Thoroughbred Associates, LLC.	Contractor Beredco Drilling	Rig No. 10
Address Operators Address	Address Rig	Spud Date 11/20/08
Report for Mr. Rob Patton/ Bryan Bynog	Report for Mr. Charlie Schniepp	Section 4 Twp 19S Range 22W
Well Name & No. #1-4 BK	County Ness	State Kansas

Operation		Casing		Mud Volume (BBL)		Circulation Data			
Present Activity				Hole	Pits	Liner Size	Stroke	Opposite Drill Pipe	Pump Pressure
CFS		8 5/8	in. at 258	358	400	6	16	231	900
Bit Size (in.)	No	Intermediate		Total Circulating Vol.		Est. Hole/DS capacities		Opposite Drill Collars	Pump Make
7 7/8	2	in. at		758		8.5 2.573		420	Ideal
Drill pipe sz	Type	Production / Liner		Volume in Storage		BBL/ Strk	Strk / Min.	Bottoms Up (Min.)	Pump Model
4 1/2	XH	in. at		100 bbls		0.156	60	32	C-250
Drill Collar size	Drilling mud type		BBL/Min.		GAL/Min.	System Total (Min)		Critical GPM DC/DP	
6 1/4	523	chemical		9.4	393	81		295	412

Sample from Flowline <input checked="" type="checkbox"/> or Pit <input type="checkbox"/>	Daily Mud Cost	Cumulative Mud Cost
Flowline Temperature	2,564.45	18,920.45

Mud Properties	
Time Sample Taken	10:30 AM
Depth (Ft.)	4,206
Weight (lb/gal.)	9.5
Mud Gradient (psi/ft.)	0.494
Funnel Viscosity (Sec/qt. API)	69
Plastic Viscosity cp	16
Yield Point (lb/100 sq.ft.)	20
Gel Strength 10 sec/10 min.	16/49
pH	10.5
Filtrate API (ml/30 min.)	8.8
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	-
Alkalinity, Filtrate (Pf/Mf)	.95/-
Chloride Content, ppm	8,700
Calcium, ppm	40
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	8.0
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	92.0
LCM, lbs/bbl.	Tr
Reynold's #DP	1,866
Reynold's # DC	3,052
ECD lb/gal	10.22

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.2-9.6	46-50	8-10.0	as needed

Suggest...

Run small stream of water at flowline while drilling to control mud wt. 9.2-9.6 #/gal.

Maintain 46-50 sec/qt. viscosity with the following premix
 80 bbls fresh water
 1 Soda Ash
 1 Caustic *Add premix as needed for vis, or to control mud wt.
 1 Lignite
 1/3 sx Pac
 Gel as needed Add to system over 1 1/2 hours

LCM as needed with c/s hulls

Tourly while drilling: 1 sx Caustic
 1 sx Lignite

*Add tourly at chemical bbl, add to system over 2 hours if no premix is added on your tour

Suggest short trip prior to DST #1, trip slowly and don't shake pipe, break circulation on all TIH w/ bit

Circulate hole clean prior to all trips and keep hole full

Divert all DST recovery to reserve pit

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THANK YOU!

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 WICHITA, KS

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	249	280	354	175	1,706.25
Lime					
Soda Ash		14	9	5	126.25
Caustic Soda	4	10	8	6	393.30
Lignite	8	5	8	5	140.00
C/S Hulls	120		117	3	52.65
Drill Pak		4	3	1	330.00
Desco	2		2		
Poly Plus			1	-1	-184.00
Barite	16		16		
Xcide					
Sapp					
Barite					
MilGuard					

Mud-Co / Service Mud Representative Jason Whiting	Home Address Great Bend, Kansas	Telephone Number 620-792-4544
Cell: 620-282-0556	Warehouse Location Hays, Kansas	Telephone Number 785-621-4323

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **9**

Daily Drilling Mud Report

Date: **11/28/08** Depth: **4206**

Operator Thoroughbred Associates, LLC.		Contractor Beredco Drilling		Rig No. 10	
Address Operators Address		Address Rig		Spud Date 11/20/08	
Report for Mr. Rob Patton/ Bryan Bynog		Report for Mr. Charlie Schniepp		Section 4 Twp 19S Range 22W	
Well Name & No. #1-4 BK		County Ness		State 0	

Operation		Casing		Mud Volume (BBL)		Circulation Data			
Present Activity		Hole		Pits		Liner Size	Stroke	Opposite Drill Pipe	Pump Pressure
CCH after DST1		8 5/8 in. at 258		358 400		6	16	231	-
Bit Size (in.)	No	Intermediate		Total Circulating Vol.		Est. Hole/DS capacities		Opposite Drill Collars	Pump Make
7 7/8	2	in. at		758		8.5	2.573	420	G-D
Drill pipe sz	Type	Production / Liner		Volume in Storage		BBV/ Strk	Strk / Min.	Bottoms Up (Min.)	Pump Model
4 1/2	XH	in. at		80		0.156	60	32	FXH
Drill Collar size	Drilling mud type		BBL/Min.		GAL/Min.	System Total (Min.)		Critical GPM DC/DP	
6 1/4	523	Chemical		9.4	393	81		255	347

Sample from Flowline x or Pit	Daily Mud Cost	Cumulative Mud Cost
Flowline Temperature	192.90	19,113.35

Time Sample Taken	Mud Properties		
	9:40 AM	9:15 AM	
Depth (Ft.)	4,206	4,206	
Weight (lb/gal.)	9.4	8.9	Gascut
Mud Gradient (psi/ft.)	0.489		
Funnel Viscosity (Sec/qt. API)	44	73	
Plastic Viscosity cp	14	25	
Yield Point (lb/100 sq.ft.)	15	23	
Gel Strength 10 sec/10 min.	22/44	31/73	
pH	10.0	11.5	
Filtrate API (ml/30 min.)	12.2	8.8	Reserve
Cake Thickness 32nd	2	1	Pit
Alkalinity, Mud (Pm)	-	-	↓
Alkalinity, Filtrate (Pf/Mf)	.43/-	.9/-	
Chloride Content, ppm	10,700	10,000	21,000
Calcium, ppm	80	40	Estimated
Sand Content (% by Vol)	TR	TR	Volume
Solids Content (% by Vol.)	7.1	3.7	1500 bbls
Oil Content (% by Vol.)	0.0	0	
Water Content (% by Vol.)	92.9	96.3	
LCM, lbs/bbl.	TR	0	
Reynold's #DP	2,393		
Reynold's # DC	3,722		
ECD lb/gal	10.11		

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.2-9.6	46-50	8-10.0	as needed

Suggest...

Today - to mud currently in premix add an additional 1 sx Pac and 1 sx caustic - Lower volume and add to system over 1 1/2 hours

Run small stream of water at flowline while drilling to control mud wt. 9.2-9.6 #/gal.

Maintain 46-50 sec/qt. viscosity with the following premix
 40 bbls fresh water/40 bbls pit mud
 1 Soda Ash
 1 Caustic If mud wt less than 9.3 use all
 1/2 Lignite pit ud
 1/2 sx Pac
 Gel as needed Add to system over 1 1/2 hours

LCM as needed with c/s hulls

Circulate hole clean prior to all trips and keep hole full

Divert all DST recovery to reserve pit

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	354		350	4	39.00
Lime					
Soda Ash	9		8	1	25.25
Caustic Soda	8		7	1	65.55
Lignite	8		7	1	28.00
C/S Hulls	117		115	2	35.10
Drill Pak	3		3		
Desco	2		2		
Poly Plus	1		1		
Barite	16		16		
Xcide					
Sapp					
Barite					
MilGuard					

THANK YOU!

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FEB 11 2009

CONSERVATION DIVISION
WICHITA, KS

Mud-Co / Service Mud Representative Rick Hughes	Home Address Great Bend, Kansas	Telephone Number 620-792-5425
Cell: 620-791-7623	Warehouse Location Hays, Kansas	Telephone Number 785-621-4323

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **10**

Daily Drilling Mud Report

Date: **11/29/08** Depth: **4465**

Operator Thoroughbred Associates, LLC.	Contractor Beredco Drilling	Rig No. 10
Address Operators Address	Address Rig	Spud Date 11/20/08
Report for Mr. Rob Patton/ Bryan Bynog	Report for Mr. Charlie Schniepp	Section 4 Twp 19S Range 22W
Well Name & No. #1-4 BK	County Ness	State 0

Operation	Casing	Mud Volume (BBL)	Circulation Data			
Present Activity Drilling	8 5/8 in. at 258	Hole 380 Pits 400	Liner Size 6	Stroke 16	Opposite Drill Pipe 231	Pump Pressure -
Bit Size (in.) 7 7/8 No 2	Intermediate in. at	Total Circulating Vol. 780	Est. Hole/DS capacities 8.5 2.573		Opposite Drill Collars 420	Pump Make G-D
Drill pipe sz 4 1/2 Type XH	Production / Liner in. at	Volume in Storage 80 pit mud	BBL/ Strk 0.156	Strk / Min. 60	Bottoms Up (Min.) 34	Pump Model FXH
Drill Collar size 6 1/4 523	Drilling mud type Chemical		BBL/Min. 9.4	GAL/Min. 393	System Total (Min.) 83	Critical GPM DC/DP 324 480

Sample from Flowline <u>x</u> or Pit	Daily Mud Cost 165.60	Cumulative Mud Cost 19,278.95
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Flowline Temperature		Mud Properties	
Time Sample Taken	9:15 AM		
Depth (Ft.)	4,465		
Weight (lb/gal.)	9.65		
Mud Gradient (psi/ft.)	0.502		
Funnel Viscosity (Sec/qt. API)	54		
Plastic Viscosity cp	15		
Yield Point (lb/100 sq.ft.)	27		
Gel Strength 10 sec/10 min.	36/75		
pH	10.5		
Filtrate API (ml/30 min.)	10.0		
Cake Thickness 32nd	2		
Alkalinity, Mud (Pm)	-		
Alkalinity, Filtrate (Pf/Mf)	.54/-		
Chloride Content, ppm	10,000		
Calcium, ppm	40		
Sand Content (% by Vol)	TR		
Solids Content (% by Vol.)	9.0		
Oil Content (% by Vol.)	0.0		
Water Content (% by Vol.)	91.0		
LCM, lbs/bbl.	TR		
Reynold's #DP	1,467		
Reynold's # DC	2,704		
ECD lb/gal	10.47		

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.) 9.4-9.6	Viscosity 50-55	Filtrate 8-10.0	LCM as needed

Suggest...

Run small stream of water at flowline while drilling to control mud wt. 9.4-9.6 #/gal.

Maintain 50-55 sec/qt. viscosity with the following premix
 40 bbls fresh water/40 bbls pit mud
 1 Soda Ash
 1 Caustic If mud wt less than 9.3 use all
 1/2 Lignite pit mud
 1/2 sx Pac
 Gel as needed Add to system over 1 1/2 hours

LCM as needed with c/s hulls

Circulate hole clean prior to all trips and keep hole full

Divert all DST recovery to reserve pit

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	350		343	7	68.25
Lime					
Soda Ash	8		6	2	50.50
Caustic Soda	7		8	-1	-65.55
Lignite	7		8	-1	-28.00
C/S Hulls	115		107	8	140.40
Drill Pak	3	2	5		
Desco	2		2		
Poly Plus	1		1		
Barite	16	14	30		
Xcide					
Sapp					
Barite					
MilGuard					

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