

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5364
Name: Beren Corporation
Address: P O Box 20380
City/State/Zip: Wichita, KS 67208
Purchaser: Central Crude Corp
Operator Contact Person: Jeremy Ensiz
Phone: (316) 265-3311
Contractor: Name: BEREDCO
License: 5147

Wellsite Geologist: Bryan Bynog
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>05-15-2006</u>	<u>05-30-2006</u>	<u>07-14-2006</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23175 - 0000
County: Graham
SW - SE - NW Sec. 22 Twp. 10 S. R. 25 East West
2525' FNL _____ feet from S / N (circle one) Line of Section
1490' FWL _____ feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Brungardt Well #: B-4
Field Name: Ambrose

Producing Formation: LKC "C"
Elevation: Ground: 2515' Kelly Bushing: 2526'
Total Depth: 4286' Plug Back Total Depth: 4259'
Amount of Surface Pipe Set and Cemented at 227 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2192' Feet
If Alternate II completion, cement circulated from 2192'
feet depth to surface w/ 375 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) *Alt II with 8-22-07*
Chloride content 3000 ppm Fluid volume 730 bbls
Dewatering method used _____

Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
Title: Reservoir Engineering Tech Date: 08-28-2006

Subscribed and sworn to before me this 28th day of August, 2006.

Notary Public: [Signature]
Date Commission Expires: 8-10-07

DIANA E PLOTNER
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-10-07

KCC Office Use ONLY

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

RECEIVED
AUG 29 2006
KCC WICHITA

Operator Name: Beren Corporation Lease Name: Brungardt Well #: B-4
 Sec. 22 Twp. 10 S. R. 25 East West County: Graham

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	Anhydrite	2155'	+371
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3772'	-1246
List All E. Logs Run:		LKC	3810'	-1284
CNL/CDL, DIL, MEL		BKC	4046'	-1520
		Marmaton	4059'	-1533
		Pawnee	4154'	-1628
		Cherokee	4246'	-1720

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	227'	common	150	2% gel, 3% CC
Production	7-7/8"	5-1/2"	15-1/2	4283'	ASC	650	see cement ticket

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3851-58'	none	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
		2-7/8"	4209'			
Date of First, Resumerd Production, SWD or Enhr.			Producing Method			
07-14-2006			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	25	--	328			

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT REPORT NO. _____

DATE 5-20-2006 DEPTH 1615

API WELL NO. _____ STATE _____ COUNTY _____

OPERATOR BEREXPO INC **CONTRACTOR** BEREDO **RIG NO.** 10

ADDRESS Rig **ADDRESS** Rig **SPUD DATE** 5-15-06

REPORT FOR MR. BEYAN Bynog **REPORT FOR MR.** MARVIN JULIAN **SECTION, TOWNSHIP, RANGE** 23-10-25W

WELL NAME AND NO. #4 BRUNGARDT "B" **FIELD OR BLOCK NO.** _____ **COUNTY** GRAHAM **STATE** KANSAS

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
PRESENT ACTIVITY	<u>Drig</u>	SURFACE	<u>85/8</u>	HOLE	<u>97</u>	PUMP SIZE	<u>6</u>	X	<u>14</u>	ANNULAR VEL. (FT./MIN.)	<u>122</u>
BIT SIZE (IN.)	<u>7 7/8</u>	IN. at	<u>227</u>	PITS	<u>400</u>	OPPOSITE DP					
NO.	<u>1</u>	FT.		TOTAL CIRCULATING VOLUME	<u>497</u>	PUMP MAKE					
DRILL PIPE SIZE	<u>4 1/2</u>	INTERMEDIATE		IN STORAGE	<u>80 bbls</u>	MODEL					
TYPE	<u>XH</u>	IN. at				BBL/STROKE	<u>137</u>	STROKE/MIN	<u>54</u>	CIRCULATING PRESSURE PSI	<u>800</u>
DRILL COLLAR SIZE	<u>6 1/4</u>	PRODUCTION OR LINER				BBL./MIN.	<u>7.4</u>			BOTTOMS UP (MIN.)	<u>13+</u>
LENGTH	<u>523</u>	IN. at								SYSTEM TOTAL (MIN.)	<u>67+</u>
		MUD TYPE									

Sample from Flowline Pit Flowline Temp. °F

MUD PROPERTIES **DAILY COST** 719.50 **CUMULATIVE COST** 1,576.50

Time Sample Taken	AM	PM	Time
Depth (ft)			<u>9:30</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)			<u>1615</u>
Mud Gradient (psi/ft)			<u>8.6</u>
Funnel Viscosity (sec/qt) API at _____ °F			<u>.447</u>
Plastic Viscosity cp at _____ °F			<u>27</u>
Yield Point (lb/100 sq ft)			<u>NATIVE</u>
Gel Strength (lb/100 sq ft) 10 sec/10 min			<u>Solids</u>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter			<u>@</u>
Filtrate API (ml/30 min)			<u>Water</u>
Cake Thickness 32nd in API <input type="checkbox"/> HP-HT <input type="checkbox"/>			<u>1</u>
Alkalinity, Mud (P _m)			<u>1</u>
Alkalinity, Filtrate (P _f /M _f)			<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm			<u>500</u>
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)			
Sand Content (% by Vol)			
Solids Content (% by Vol)			<u>2</u>
Oil Content (% by Vol)			
Water Content (% by Vol)			<u>98</u>
L.C.M. #/bbl			
Preservative #/bbl			

MUD PROPERTIES SPECIFICATIONS to 3200'

WEIGHT 9.0-9.5 VISCOSITY As Needed FILTRATE No Control

BY AUTHORITY OPERATOR'S WRITTEN DRILLING CONTRACTOR OPERATOR'S REPRESENTATIVE OTHER

MATERIALS RECOMMENDED

SUGGEST:

Now to displacement depth @ 3200'

- Control mud wt 9.0-9.5 / gal with water @ sample box
- Add premix as needed for viscosity, to clean hole & carry LCM
80 bbls fresh water
1 sx Soda Ash
18-25 sx Gel
- Hulls for LCM as needed
mud for frac tk to displace @ 3200'
80 bbls fresh water
20-22 sx Gel
2 sx Soda Ash
1 sx Caustic
1 sx Lignite
1/4 sx poc-mix slow
2 sx hulls

Pump 60 bbls fresh water ahead of frac tk mud (8-9 min @ 54 spm)

MUD ON HAND/USED		MUD ON HAND/USED	
<u>222</u>	<u>53</u>	<u>6</u>	
<u>25</u>		<u>140</u>	<u>15</u>
<u>19</u>			
<u>20</u>			
<u>2</u>			

Premium Gel
Soda Ash
Caustic Soda
Super Lig
Lime

Drillpac
C/S Hulls
Multi Seal
Cedar Fiber
Cello Flake

poly pigs

THANKS

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE Jim WIESNER **HOME ADDRESS** GREAT BEND **TELEPHONE** 620 793-7514

MOBILE UNIT 620 786 0192 **WAREHOUSE LOCATION** PRATT **TELEPHONE** 620 672-2957

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. 3

DATE 5-21-2006 DEPTH 3250

API WELL NO. STATE COUNTY

OPERATOR **BEREXPO INC**
 ADDRESS **Rig**
 REPORT FOR MR. **BRAYN BYNOG**

CONTRACTOR **BEREDCO**
 ADDRESS **Rig**
 REPORT FOR MR. **MARVIN JULIAN**

RIG NO. **10**
 SPUD DATE **5-15-06**
 SECTION, TOWNSHIP, RANGE **22-10-35W**

WELL NAME AND NO. **#4 BRUNQARDT "B"** FIELD OR BLOCK NO. COUNTY **GRAHAM** STATE **KANSAS**

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY DRIG		SURFACE 8 5/8 IN. at 227 FT.		HOLE PITS 243 400		PUMP SIZE X IN. 6 14	ANNULAR VEL. (FT./MIN.) 129
BIT SIZE (IN.) NO. 7 7/8 1		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 643		PUMP MAKE	OPPOSITE DP
DRILL PIPE SIZE TYPE 4 1/2 XH		PRODUCTION OR LINER IN. at FT.		IN STORAGE 80 bbls PREMIX		MODEL	OPPOSITE COLLAR 342
DRILL COLLAR SIZE 6 1/4 523		MUD TYPE CHEMICAL				BBL/STROKE STROKE/MIN .137 56	CIRCULATING PRESSURE PSI 1000
						BBL/MIN. 7.67	BOTTOMS UP (MIN.) 31+
							SYSTEM TOTAL (MIN.) 82+

Sample from Flowline Pit Flowline Temp.ature Pit °F

MUD PROPERTIES DAILY COST **3,824.79** CUMULATIVE COST **5,401.29**

Time Sample Taken	(AM) (PM)	3:25	9:25
Depth (ft)		3250	3070
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		8.7	9.2
Mud Gradient (psi/ft)		1.452	1.478
Funnel Viscosity (sec/qt) API at _____ °F		52	28
Plastic Viscosity cp at _____ °F		13	
Yield Point (lb/100 sq ft)		17	N
Gel Strength (lb/100 sq ft) 10 sec/10 min		11/20 1	6
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter		11.5	+
Filtrate API (ml/30 min)		8.0	+
Cake Thickness 32nd in API <input type="checkbox"/> HP-HT <input type="checkbox"/>		1	1
Alkalinity, Mud (P _m)			V
Alkalinity, Filtrate (P _f /M _f)		21 1	4
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg		900	27,000
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		Nil	None
Sand Content (% by Vol)			
Solids Content (% by Vol)		2.7	4.8
Oil Content (% by Vol)			
Water Content (% by Vol)		97.3	95.2
L.C.M. #/bbl		1#	
Preservative #/bbl			

MUD PROPERTIES SPECIFICATIONS		
WEIGHT	VISCOSITY	FILTRATE
8.8 - 9.4	45-48	10-15
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest:

- Control mud wt 8.8-9.4 #/gal with water @ sample box & premix
- MAINTAIN A 45-48 sec/qt viscosity with premix - 80 bbls fresh water
 1 sx Soda Ash
 1 sx Caustic Soda
 1 sx Lignite
 1/4 sx pac
 Gel as needed
- Note:
 If mud wt is ok you can use pit mud & thicken with Gel
 11-16 for LED as needed
- CIRCULATE hole clean for DST's
 KEEP hole full on all trips

THANKS

MUD ON HAND/USED		MUD ON HAND/USED	
46	176	3	3
7	18	130	10
10	4		
11	4		
2			

Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE **Jim WIESNER** HOME ADDRESS **GREAT BEND** TELEPHONE **620 793-7514**
 MOBILE UNIT **620 786-0192** WAREHOUSE LOCATION **PRATT** TELEPHONE **620 673-2957**

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. **4**

DATE **5-22-2006** DEPTH **2800**

API WELL NO. STATE COUNTY

OPERATOR BEREXCO INC		CONTRACTOR BEREDCO		RIG NO. 10	
ADDRESS Rig		ADDRESS Rig		SPUD DATE 5-15-06	
REPORT FOR MR. RYAN BYNOG		REPORT FOR MR. MARVIN JULIAN		SECTION, TOWNSHIP, RANGE 22-10-25W	
WELL NAME AND NO. #4 BRUNGARDT "B"		FIELD OR BLOCK NO.		COUNTY GRAHAM	
				STATE KANSAS	

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
PRESENT ACTIVITY Drill		SURFACE IN. at 227 FT.		HOLE PITS 285 400		PUMP SIZE X IN. 6 14		ANNULAR VEL. (FT./MIN.) OPPOSITE DP 187	
BIT SIZE (IN.) NO. 7 7/8 1		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 685		PUMP MAKE		OPPOSITE COLLAR 742	
DRILL PIPE SIZE TYPE 4 1/2 XH		PRODUCTION OR LINER IN. at FT.		IN STORAGE 80 bbls premix		MODEL		CIRCULATING PRESSURE PSI 1000	
DRILL COLLAR LENGTH SIZE 6 1/4 523		MUD TYPE Chemical				BBL/STROKE STROKE/MIN 137 56		BOTTOMS UP (MIN.) SYSTEM TOTAL (MIN.) 37+	
						BBL/MIN. 7.67			

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit		MUD PROPERTIES		DAILY COST		CUMULATIVE COST 5,401.29	
Flowline Temp.ature °F							

Time Sample Taken	AM PM	11:10		
Depth (ft)		2800		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		9.2		
Mud Gradient (psi/ft)		.472		
Funnel Viscosity (sec/qt) API at °F		42+		
Plastic Viscosity cp at °F		11		
Yield Point (lb/100 sq ft)		13		
Gel Strength (lb/100 sq ft) 10 sec/10 min		3/15	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		11.0		
Filtrate API (ml/30 min)		8.8		
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		1		
Alkalinity, Mud (P _m)				
Alkalinity, Filtrate (P _f /M _f)		1.09	1	1
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm		1,900		
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		71		
Sand Content (% by Vol)				
Solids Content (% by Vol)		6.2		
Oil Content (% by Vol)				
Water Content (% by Vol)		93.8		
L.C.M. #/bbl		72		
Preservative #/bbl				

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.2-9.4	VISCOSITY 45-48	FILTRATE 10-13
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

SUGGEST:

- CONTROL mud wt 9.2-9.4 #/gal with water @ SAMPLE BOX
- MAINTAIN A 45-48 sec/qt viscosity with premix - 80 bbls fresh water
1 sk Soda Ash
1 sk Caustic
1 sk LIGNITE
44 sk PAC-MIX slow
Gel AS NEEDED
- If mud wt is ok use pit mud & Gel premix up but use all water if mud wt is 9.4 #/gal or more
- Daily TREATMENT OVER 1 1/2-2 hrs if you don't add ANY premix
2 sks Caustic
1 sk LIGNITE
- Hulls for LCM AS NEEDED
- CIRCULATE hole clean for DST'S
KEEP hole full on all trips

MUD ON HAND/USED		MUD ON HAND/USED	
46	Premium Gel	3	Drillpac
7	Soda Ash	130	C/S Hulls
10	Caustic Soda		Multi Seal
11	Super Lig		Cedar Fiber
	Lime		Cello Flake
2	Poly Plus		

THANKS

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE Jim WIESNER	HOME ADDRESS GREAT BEND	TELEPHONE 620 793-7514
MOBILE UNIT 620 786-0192	WAREHOUSE LOCATION PRATT	TELEPHONE 620 672-2951

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. **5**

DATE **5-23-06** DEPTH **3821**

API WELL NO.

STATE COUNTY

OPERATOR Barexco, Inc.		CONTRACTOR Baredco Drig.		RIG NO. 10	
ADDRESS Rig		ADDRESS Rig		SPUD DATE 5-15-06	
REPORT FOR MR. Mr. Bryan Byrnes		REPORT FOR MR. Marvin Julian		SECTION, TOWNSHIP, RANGE 22-10S-25W	
WELL NAME AND NO. #4 Brungardt "B"		FIELD OR BLOCK NO.		STATE Kansas	
		COUNTY Graham			

OPERATION PRESENT ACTIVITY Aslg.		CASING SURFACE 8 5/8 at 227 FT.		MUD VOLUME (BBL) HOLE 303 PITS 400		CIRCULATION DATA PUMP SIZE X IN. 6 14		ANNULAR VEL. (FT./MIN.) OPPOSITE DP 180	
BIT SIZE (IN.) NO. 7 7/8 1		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 703		PUMP MAKE MODEL Ideco C-250		OPPOSITE COLLAR 350	
DRILL PIPE SIZE TYPE 4 3/4 XH		PRODUCTION OR LINER IN. at FT.		IN STORAGE		BBL/STROKE STROKE/MIN .137 m 56		CIRCULATING PRESSURE PSI 1000	
DRILL COLLAR LENGTH SIZE 6 1/2 X 2 1/2 498		MUD TYPE Native				BBL/MIN. 7.7		BOTTOMS UP (MIN.) 39'	
								SYSTEM TOTAL (MIN.) 91'	

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit		MUD PROPERTIES		DAILY COST -0-		CUMULATIVE COST 5401.29	
Flowline Temp.ature °F							

Time Sample Taken	(AM) PM	9:00		
Depth (ft)		3821		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		9.1		
Mud Gradient (psi/ft)		1808		
Funnel Viscosity (sec/qt) API at _____ °F		47		
Plastic Viscosity cp at _____ °F		11		
Yield Point (lb/100 sq ft)		20		
Gel Strength (lb/100 sq ft) 10 sec/10 min		8 1/6	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		11.0		
Filtrate API (ml/30 min)		7.6		
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		2/32		
Alkalinity, Mud (P _m)				
Alkalinity, Filtrate (P _f /M _f)		14.1	1	1
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		1500		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		20		
Sand Content (% by Vol)		TR		
Solids Content (% by Vol)		5.5		
Oil Content (% by Vol)				
Water Content (% by Vol)		94.5		
L.C.M. #/bbl		1/2		
Preservative #/bbl				

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.3 or less	VISCOSITY 30-33	FILTRATE NC
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest Treatment
1% caustic soda
gel as needed.

Run stream of water @ flow line
If vis is required use existing
premix tank of frac mud.

Always keep Hole True!

Always Circulate Hole Clean Before Try

Thank You

Residual pit Chlorides: 29,000 ppm.

MUD ON HAND/USED		MUD ON HAND/USED	
40	Premium Gel	3	Drillpac
7	Soda Ash	130	C/S Hulls
10	Caustic Soda		Multi Seal
11	Super Lig		Cedar Fiber
	Lime		Cello Flake
		2	Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE Gary Schmidtberger	HOME ADDRESS Hays	TELEPHONE 785-635-4931
MOBILE UNIT 785-339-3757	WAREHOUSE LOCATION Watt	TELEPHONE 620-672-2457

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. **6**

DATE **5-24 2006** DEPTH **3870**

API WELL NO. STATE COUNTY

OPERATOR Berexco, Inc.	CONTRACTOR Berexco Drig.	RIG NO. 10
ADDRESS Rig	ADDRESS Rig	SPUD DATE 5-15-06
REPORT FOR MR. Bryon Rynog	REPORT FOR MR. Marvin Julian	SECTION, TOWNSHIP, RANGE 22-10S-25W

WELL NAME AND NO. #4 Brungardt 'R'	FIELD OR BLOCK NO.	COUNTY Graham	STATE Kansas
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OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY Twin DST #3	BIT SIZE (IN.) 7 7/8	SURFACE R 5/8 at 227 FT.	INTERMEDIATE IN. at FT.	HOLE 305	PITS 400	PUMP SIZE X IN. 6 14	ANNULAR VEL. (FT./MIN.) 180
DRILL PIPE SIZE 4	TYPE XH	PRODUCTION OR LINER IN. at FT.		TOTAL CIRCULATING VOLUME 765		PUMP MAKE Ideco C-250	OPPOSITE DP 350
DRILL COLLAR SIZE 6 1/2 X 2 1/2	LENGTH 49A	MUD TYPE Chemical		IN STORAGE		BBL/STROKE STROKE/MIN .137 56	OPPOSITE COLLAR 350
						BBL/MIN. 7.7	CIRCULATING PRESSURE PSI 1000
							BOTTOMS UP (MIN.) 40±
							SYSTEM TOTAL (MIN.) 90±

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	DAILY COST 200.19	CUMULATIVE COST 5601.48
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Time Sample Taken	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	1:15		
Depth (ft)		3870		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		9.2		
Mud Gradient (psi/ft)		1951		
Funnel Viscosity (sec/qt) API at _____ °F		45		
Plastic Viscosity cp at _____ °F		11		
Yield Point (lb/100 sq ft)		21		
Gel Strength (lb/100 sq ft) 10 sec/10 min		10/18	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		10.5		
Filtrate API (ml/30 min)		3.8		
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		2/32		
Alkalinity, Mud (P _m)		0.9	1	1
Alkalinity, Filtrate (P _f /M _f)		0.9	1	1
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride, <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		3000		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		60		
Sand Content (% by Vol)		TR		
Solids Content (% by Vol)		7.3		
Oil Content (% by Vol)		---		
Water Content (% by Vol)		92.7		
L.C.M. #/bbl		1		
Preservative #/bbl		---		

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.0-9.4	VISCOSITY 46-50	FILTRATE 8-10cc
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest treatment when break on bottom of DST #3 get a hole + add 1/2 to 3/4 premix tank to system.

Run stream of water w/ flocculant

If vis is reached a mud gel in pit means

Always Keep Hole Full!

Always Circulate Hole Clean Before Trip

MUD ON HAND/USED	MUD ON HAND/USED
40 Premium Gel	3 Drillpac
7 Soda Ash	130 C/S Hulls
9 Caustic Soda	Multi Seal
11 Super Lig	Cedar Fiber
Lime	Cello Flake
	1 1 Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <i>Larry Schmittberger</i>	HOME ADDRESS <i>Hays</i>	TELEPHONE <i>785-625-4931</i>
MOBILE UNIT <i>785-259-2757J</i>	WAREHOUSE LOCATION <i>Pratt</i>	TELEPHONE <i>620-478-3857</i>

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. 7

DATE 5-25-2006 DEPTH 3920

API WELL NO. STATE COUNTY

RIG NO. 10
SPUD DATE 5-15-06
SECTION, TOWNSHIP, RANGE 22-10S-25E

OPERATOR Berexco Inc.
ADDRESS Rig
REPORT FOR MR. Rayon Byrnes

CONTRACTOR Berexco Inc.
ADDRESS Rig
REPORT FOR MR. Martin Julian

WELL NAME AND NO. #4 Bergardt 'B' FIELD OR BLOCK NO. COUNTY Graham STATE Ks.

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>Tripout / on DST #4</u>	SURFACE <u>8 7/8 IN. at 327 FT.</u>	HOLE <u>308</u>	PITS <u>400</u>	PUMP SIZE X IN. <u>6 14</u>	ANNULAR VEL. (FT./MIN.) <u>180</u>	OPPOSITE DP	
BIT SIZE (IN.) NO. <u>7 7/8 2</u>	INTERMEDIATE IN. at FT.	TOTAL CIRCULATING VOLUME <u>709</u>	IN STORAGE	PUMP MAKE <u>Model Idco C-250</u>	OPPOSITE COLLAR <u>350</u>	CIRCULATING PRESSURE PSI <u>800 ±</u>	
DRILL PIPE SIZE TYPE <u>4 XH</u>	PRODUCTION OR LINER IN. at FT.			BBL/STROKE STROKE/MIN <u>.137 56</u>	BOTTOMS UP (MIN.) <u>40 ±</u>	SYSTEM TOTAL (MIN.) <u>92 ±</u>	
DRILL COLLAR SIZE <u>6 1/4 x 2 1/4</u>	LENGTH <u>498</u>	MUD TYPE <u>Chemical</u>		BBL./MIN. <u>7.7</u>			

Sample from Flowline Pit Flowline Temp. ture MUD PROPERTIES DAILY COST -0- CUMULATIVE COST 5661.48

Time Sample Taken	AM	PM	8:50
Depth (ft)			<u>3920</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)			<u>9.2</u>
Mud Gradient (psi/ft)			<u>1875</u>
Funnel Viscosity (sec/qt) API at °F			<u>45</u>
Plastic Viscosity cp at °F			<u>10</u>
Yield Point (lb/100 sq ft)			<u>18</u>
Gel Strength (lb/100 sq ft) 10 sec/10 min			<u>5112 1 1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter			<u>10.5</u>
Filtrate API (ml/30 min)			<u>7.6</u>
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>			<u>2/32</u>
Alkalinity, Mud (P _m)			<u>71.9 1 1</u>
Alkalinity, Filtrate (P _f /M _f)			<u>3000</u>
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm			<u>20</u>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)			<u>TR</u>
Sand Content (% by Vol)			<u>7.3</u>
Solids Content (% by Vol)			<u>92.7</u>
Oil Content (% by Vol)			<u>1/2</u>
Water Content (% by Vol)			
L.C.M. #/bbl			
Preservative #/bbl			

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>46-50</u>	FILTRATE <u>8-12cc</u>
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

*Suggest Treatment for vis
Add 1/2 of existing premix tank
Get a hole before adding.
Run stream of water @ flowline
If vis is needed mix gel in pit area.
Always Keep Hole Full!
Always Circulate Hole Clean Before
Trips*

MUD ON HAND/USED		MUD ON HAND/USED	
<u>40</u>	Premium Gel	<u>3</u>	Drillpac
<u>7</u>	Soda Ash		C/S Hulls
<u>10</u>	Caustic Soda		Multi Seal
<u>11</u>	Super Lig		Cedar Fiber
<u>0</u>	Lime		Cello Flake
		<u>1</u>	Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE	HOME ADDRESS	TELEPHONE
MOBILE UNIT	WAREHOUSE LOCATION	TELEPHONE

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. 8

DATE 5-26-06 DEPTH 3980

API WELL NO.

STATE COUNTY

OPERATOR Beredco Inc.

CONTRACTOR Beredco Inc.

RIG NO. 10

ADDRESS Rig

ADDRESS Rig

SPUD DATE 5-15-06

REPORT FOR MR. Bryon Bynog

REPORT FOR MR. Martin Julian

SECTION, TOWNSHIP, RANGE 22-10S-25E

WELL NAME AND NO. #4 Brungardt 'B'

FIELD OR BLOCK NO.

COUNTY Graham

STATE Ks.

OPERATION	
PRESENT ACTIVITY	<u>Run in w/ DST #5</u>
BIT SIZE (IN.)	<u>7 7/8</u>
DRILL PIPE SIZE	<u>4</u>
DRILL COLLAR SIZE	<u>6 1/4 x 2 1/4</u>

CASING	
SURFACE	<u>8 5/8 IN. at 227 FT.</u>
INTERMEDIATE	
PRODUCTION OR LINER	

MUD VOLUME (BBL)	
HOLE	<u>311</u>
PITS	<u>400</u>
TOTAL CIRCULATING VOLUME	<u>711</u>
IN STORAGE	

CIRCULATION DATA			
PUMP SIZE X IN.	<u>6 x 14</u>	ANNULAR VEL. (FT./MIN.)	<u>180</u>
PUMP MAKE	<u>Idaco C-250</u>	OPPOSITE DP	<u>350</u>
MODEL	<u>Idaco C-250</u>	OPPOSITE COLLAR	<u>350</u>
BBL/STROKE	<u>.137</u>	CIRCULATING PRESSURE PSI	<u>900 ±</u>
STROKE/MIN	<u>56</u>	BOTTOMS UP (MIN.)	<u>40 ±</u>
BBL./MIN.	<u>7.7</u>	SYSTEM TOTAL (MIN.)	<u>92 ±</u>

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES
Flowline Temp. <u>ture</u>	

DAILY COST <u>105.75</u>	CUMULATIVE COST <u>5707.23</u>
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Time Sample Taken <u>AM</u> <u>8:55</u>	
Depth (ft) <u>3980</u>	
Weight <input checked="" type="checkbox"/> (ppg) <u>9.2</u>	
Mud Gradient (psi/ft) <u>1904</u>	
Funnel Viscosity (sec/qt) API at <u>46</u>	
Plastic Viscosity cp at <u>10</u>	
Yield Point (lb/100 sq ft) <u>20</u>	
Gel Strength (lb/100 sq ft) 10 sec/10 min <u>9120</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <u>10.5</u>	
Filtrate API (ml/30 min) <u>5.8</u>	
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <u>2 1/32</u>	
Alkalinity, Mud (P _m) <u>4.7</u>	<u>1</u>
Alkalinity, Filtrate (P _f /M _f) <u>5000</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <u>60</u>	
Chloride <input type="checkbox"/> ppm <u>TR</u>	
Calcium <input checked="" type="checkbox"/> ppm <u>6</u>	
Gyp (ppb) <u>94</u>	
Sand Content (% by Vol)	
Solids Content (% by Vol)	
Oil Content (% by Vol)	
Water Content (% by Vol)	
L.C.M. #/bbl	
Preservative #/bbl	

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>46-50</u>	FILTRATE <u>8-12cc</u>
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest treatment for vis
Add in 30 bbl. of mud out of
existing premix tank when back
on bottom after DST #5. Get hole
before adding.

Run stream of water @ flowline
Flow is needed mix gel in pit mud

Always keep hole full!

Always Circulate Hole Clean Before
Trip

Thank you

MUD ON HAND/USED	
<u>40</u>	Premium Gel
<u>7</u>	Soda Ash
<u>10</u>	Caustic Soda
<u>11</u>	Super Lig
<u>0</u>	Lime

MUD ON HAND/USED	
<u>3</u>	Drillpac
<u>121</u>	C/S Hulls
<u>9</u>	Multi Seal
	Cedar Fiber
	Cello Flake
<u>1</u>	Poly Blues

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <u>Gary Schmittberg</u>	HOME ADDRESS <u>Wichita</u>	TELEPHONE <u>785-625-4991</u>
MOBILE UNIT <u>785-259-9757</u>	WAREHOUSE LOCATION <u>Wichita</u>	TELEPHONE <u>620-672-355</u>

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. **9**

DATE **5-27 2006** DEPTH **4000**

API WELL NO. STATE COUNTY

OPERATOR Beredco, Inc. **CONTRACTOR** Beredco Drig. **RIG NO.** 10

ADDRESS Rig **ADDRESS** Rig **SPUD DATE** 5-15-06

REPORT FOR MR. Bryon Bynog **REPORT FOR MR.** Marvin Julian **SECTION, TOWNSHIP, RANGE** 22-10S-25W

WELL NAME AND NO. #4 Brungardt 'B' **FIELD OR BLOCK NO.** Graham **COUNTY** Kansas

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>Tripart w/DST #6</u>		SURFACE <u>8 5/8 at 227 FT.</u>		HOLE PITS <u>312 400</u>		PUMP SIZE X IN. <u>6 14</u>	
BIT SIZE (IN.) NO. <u>7 7/8 2</u>		INTERMEDIATE <u>IN. at FT.</u>		TOTAL CIRCULATING VOLUME <u>712</u>		ANNULAR VEL. (FT./MIN.) <u>180</u>	
DRILL PIPE SIZE TYPE <u>4 XH</u>		PRODUCTION OR LINER <u>IN. at FT.</u>		IN STORAGE		OPPOSITE DP <u>350</u>	
DRILL COLLAR LENGTH SIZE <u>6 1/2 X 2 1/2 498</u>		MUD TYPE <u>Chemical</u>		MODEL <u>Ideco C-250</u>		OPPOSITE COLLAR <u>350</u>	
				BBL/STROKE STROKE/MIN <u>.137 56</u>		CIRCULATING PRESSURE PSI <u>800</u>	
				BBL./MIN. <u>7.7</u>		BOTTOMS UP (MIN.) <u>41 1/2</u>	
						SYSTEM TOTAL (MIN.) <u>92 1/2</u>	

Sample from Flowline Pit Flowline Temp.ature °F

MUD PROPERTIES DAILY COST 11.75 CUMULATIVE COST 5718.98

Time Sample Taken	(AM) PM	7:45
Depth (ft)		<u>4000</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		<u>9.2</u>
Mud Gradient (psi/ft)		<u>1914</u>
Funnel Viscosity (sec/qt) API at °F		<u>45</u>
Plastic Viscosity cp at °F		<u>12</u>
Yield Point (lb/100 sq ft)		<u>21</u>
Gel Strength (lb/100 sq ft) 10 sec/10 min		<u>9120 1 1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<u>10.5</u>
Filtrate API (ml/30 min)		<u>8.8</u>
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		<u>2/32</u>
Alkalinity, Mud (P _m)		<u>41.6 1 1</u>
Alkalinity, Filtrate (P _f /M _f)		<u>6000</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		<u>140</u>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<u>TR</u>
Sand Content (% by Vol)		<u>5.9</u>
Solids Content (% by Vol)		<u>94.1</u>
Oil Content (% by Vol)		<u>1/2</u>
Water Content (% by Vol)		<u>1/2</u>
L.C.M. #/bbl		<u>1/2</u>
Preservative #/bbl		<u>1/2</u>

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.0-9.4 VISCOSITY 46-50 FILTRATE 8-10cc

BY AUTHORITY OPERATOR'S WRITTEN DRILLING CONTRACTOR OPERATOR'S REPRESENTATIVE OTHER

MATERIALS RECOMMENDED

Suggest Treatment for vis

Get volume in pits

Add 30 bbls. of existing premix to system

Run stream of water @ flowline

If vis is needed mix gel in pit mud.

Always keep hole full!

Always Circulate Hole Clean Before Trips

Thank You

MUD ON HAND/USED		MUD ON HAND/USED	
<u>250</u>	Premium Gel	<u>3</u>	Drillpac
<u>13</u>	Soda Ash	<u>120 1</u>	C/S Hulls
<u>16</u>	Caustic Soda		Multi Seal
<u>17</u>	Super Lig		Cedar Fiber
<u>0</u>	Lime		Cello Flake
		<u>1</u>	Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE Hans Schmittberger HOME ADDRESS Hays TELEPHONE 785-625-4931

MOBILE UNIT 303-559-2767 WAREHOUSE LOCATION Pest TELEPHONE 620-272-2957

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT REPORT NO. **10**

DATE **5-28 2006** DEPTH **4628**

API WELL NO. STATE COUNTY

OPERATOR Berexco, Inc.		CONTRACTOR Beredco Drig.		RIG NO. 10
ADDRESS Rig		ADDRESS Rig		SPUD DATE 5-15-06
REPORT FOR MR. Bryon Bynog		REPORT FOR MR. Marvin Julian		SECTION, TOWNSHIP, RANGE 22-10S-25W
WELL NAME AND NO. #4 Brungardt 'B'		FIELD OR BLOCK NO.	COUNTY Graham	STATE Kansas

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <i>Con Bank after DST '7</i>		SURFACE 8 5/8 at 227 FT.		HOLE PITS 313 400		PUMP SIZE X IN. 5 14	
BIT SIZE (IN.) NO. 7 7/8 2		INTERMEDIATE		TOTAL CIRCULATING VOLUME 713		ANNULAR VEL. (FT./MIN.) 180	
DRILL PIPE SIZE TYPE 4 1/2 KH		IN. at		IN STORAGE		OPPOSITE DP 350	
DRILL COLLAR LENGTH SIZE 6 1/2 X 2 1/2 498		PRODUCTION OR LINER				OPPOSITE COLLAR 350	
		IN. at				CIRCULATING PRESSURE PSI 800	
		MUD TYPE Chemical				BOTTOMS UP (MIN.) 41 1/2	
						SYSTEM TOTAL (MIN.) 93 1/2	

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	DAILY COST 153.75	CUMULATIVE COST 5872.73
Flowline Temp. °F			

Time Sample Taken	AM PM	8:15		
Depth (ft)		4628		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		9.1		
Mud Gradient (psi/ft)		1906		
Funnel Viscosity (sec/qt) API at _____ °F		49		
Plastic Viscosity cp at _____ °F		12		
Yield Point (lb/100 sq ft)		26		
Gel Strength (lb/100 sq ft) 10 sec/10 min		10/20	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		11.0		
Filtrate API (ml/30 min)		8.0		
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		2/32		
Alkalinity, Mud (P _m)		1.7	2.1	1 1
Alkalinity, Filtrate (P _f /M _f)				
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm		7600		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		20		
Sand Content (% by Vol)		TR		
Solids Content (% by Vol)		5.3		
Oil Content (% by Vol)		94.7		
Water Content (% by Vol)		1/2		
L.C.M. #/bbl				
Preservative #/bbl				

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.0-9.4	VISCOSITY 46-50	FILTRATE 8-10cc
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest Treatment for vis in pit mud.

1 x caustic soda

gel as needed.

Run stream of water @ flowline

If vis is needed mix gel in pit mud.

Always keep hole full!

Always circulate hole clean before trip.

Thank you

MUD ON HAND/USED		MUD ON HAND/USED	
235	15	2	Drillpac
13		180	C/S Hulls
16			Multi Seal
17			Cedar Fiber
0			Cello Flake
		1	Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <i>Kerry Schmidtberg</i>	HOME ADDRESS <i>Hays</i>	TELEPHONE 785-625-4931
MOBILE UNIT <i>not available</i>	WAREHOUSE LOCATION <i>P. 44</i>	TELEPHONE 785-625-2957

MUD-CO / SERVICE MUD INC.

100 S. Main, Suite 405 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT

REPORT NO. 11

DATE 5-29-2016 DEPTH 4280

API WELL NO.

STATE COUNTY

OPERATOR <u>Beredes, Inc</u>	CONTRACTOR <u>Beredes Drilling</u>	RIG NO. <u>10</u>
ADDRESS <u>Rig</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>5-15-16</u>
REPORT FOR MR. <u>Byron Byrnes</u>	REPORT FOR MR. <u>Marvin Julian</u>	SECTION, TOWNSHIP, RANGE <u>22-105-250</u>

WELL NAME AND NO. <u>#4 Brunnerd 'B'</u>	FIELD OR BLOCK NO.	COUNTY <u>Shawnee</u>	STATE <u>Ks.</u>
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OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>Circ</u>		SURFACE 8 7/8 IN. at <u>227 FT.</u>		HOLE <u>327</u>	PITS <u>400</u>	PUMP SIZE X IN. <u>6 14</u>	ANNULAR VEL. (FT./MIN.) <u>190</u>
BIT SIZE (IN.) <u>7 7/8</u>	NO. <u>2</u>	INTERMEDIATE		TOTAL CIRCULATING VOLUME <u>727</u>		PUMP MAKE <u>Idesco C-250</u>	OPPOSITE DP <u>350</u>
DRILL PIPE SIZE <u>4</u>	TYPE <u>XH</u>	PRODUCTION OR LINER		IN STORAGE		MODEL <u>Idesco C-250</u>	OPPOSITE COLLAR <u>350</u>
DRILL COLLAR SIZE <u>6 1/4 x 2 1/4</u>	LENGTH <u>499</u>	IN. at FT.				BBL/STROKE STROKE/MIN <u>.137 56</u>	CIRCULATING PRESSURE PSI <u>900 ±</u>
		MUD TYPE <u>Chemical</u>				BLL./MIN. <u>7.7</u>	BOTTOMS UP (MIN.) <u>42 ±</u>
							SYSTEM TOTAL (MIN.) <u>94 ±</u>

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	DAILY COST <u>632.62</u>	CUMULATIVE COST <u>6505.35</u>
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Time Sample Taken <u>AM</u> PM	<u>8:15</u>		
Depth (ft)	<u>4280</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)	<u>9.3</u>		
Mud Gradient (psi/ft)	<u>2.669</u>		
Funnel Viscosity (sec/qt) API at _____ °F	<u>49</u>		
Plastic Viscosity cp at _____ °F	<u>11</u>		
Yield Point (lb/100 sq ft)	<u>26</u>		
Gel Strength (lb/100 sq ft) 10 sec/10 min	<u>10/30</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>10.0</u>		
Filtrate API (ml/30 min)	<u>9.2</u>		
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>2/32</u>		
Alkalinity, Mud (P _m)	<u>11.4</u>	<u>1</u>	<u>1</u>
Alkalinity, Filtrate (P _f /M _f)	<u>11.4</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 checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>80</u>		
Sand Content (% by Vol)	<u>TR</u>		
Solids Content (% by Vol)	<u>6.6</u>		
Oil Content (% by Vol)	<u>---</u>		
Water Content (% by Vol)	<u>93.4</u>		
L.C.M. #/bbl	<u>1/2</u>		
Preservative #/bbl	<u>---</u>		

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.0-9.4</u>	VISCOSITY <u>46-50</u>	FILTRATE <u>8-10cc</u>
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input checked="" type="checkbox"/> OTHER		

MATERIALS RECOMMENDED

Suggest Treatment

1 1/2 gal. Poly Plus down the drill string

gel for vis

1% caustic soda in premix tank

1% soda ash

Run stream of water @ flowline

Always Keep Hole Full!

Always Circulate Hole Clean Before Trips

Thank you

MUD ON HAND/USED		MUD ON HAND/USED	
<u>185</u>	<u>50</u>	<u>3</u>	Drillpac
<u>12</u>	<u>1</u>	<u>121</u>	C/S Hulls
<u>14</u>	<u>2</u>		Multi Seal
<u>17</u>			Cedar Fiber
<u>0</u>			Cello Flake
		<u>1</u>	Poly Plus

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 MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

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