

ORIGINAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

CONFIDENTIAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5363  
Name: BEREXCO, INC.  
Address: P.O. Box 20380  
City/State/Zip: Wichita, KS  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Dana Wreath  
Phone: (316) 265-3311  
Contractor: Name: Murfin Drilling, Co.  
License: 30606  
Wellsite Geologist: William B. Bynog

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. App.  
 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. \_\_\_\_\_

July 6, 2004      July 16, 2004      July 17, 2004  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 153-20828 -0000  
County: Rawlins  
C SW SE Sec. 8 Twp. 1 S. R. 36  East  West  
660 feet from (S) N (circle one) Line of Section  
1980 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE (SE) NW SW  
Lease Name: Moser Well #: 2  
Field Name: Bermos  
Producing Formation: N/A  
Elevation: Ground: 3,248' Kelly Bushing: 3,253'  
Total Depth: 4,950' Plug Back Total Depth: N/A  
Amount of Surface Pipe Set and Cemented at 320 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.

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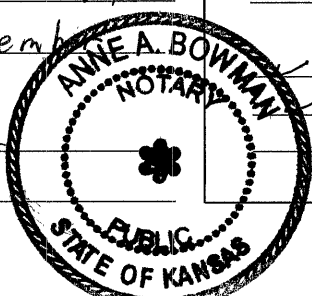
**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content 900 ppm Fluid volume 350 bbls  
Dewatering method used Evaporation & Percolation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

ALT I with 2-12-07

**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: Forest Buxton  
Title: Engineering Technician Date: 7 Sep 2004  
Subscribed and sworn to before me this 7<sup>th</sup> day of September  
18 2004.  
Notary Public: Anne A. Bowman  
Date Commission Expires: 6/2/07



**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: BEREXCO, INC. Lease Name: Moser Well #: 2  
 Sec. 8 Twp. 1 S. R. 36  East  West County: Rawlins

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

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)  
 List All E. Logs Run:  
 RAG MEL

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	3,182'	71'
LKC "A"	4,198'	-945'
Pawnee	4,614'	-1,361'
Mississippi	4,910'	-1,657'

**KCC**  
**SEP 07 2004**  
**CONFIDENTIAL**

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	12.25"	8.625"		320'	Common	200	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 (Amount and Kind of Material Used)	Depth

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 (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify) \_\_\_\_\_

# ALLIED CEMENTING CO., INC. 13496

Federal Tax I.D. # 48-0727860

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

SEP 07 2004

SERVICE POINT:

OAKLEY

CONFIDENTIAL

DATE <u>7-7-04</u>	SEC <u>8</u>	TWP. <u>15</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>9:00 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>MOSEK</u>	WELL # <u>2</u>	LOCATION <u>McDonald 14N-12W</u>			COUNTY <u>RAWLINS</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>MURFIN DRILL RIG #3</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4"</u> T.D. <u>320'</u>	CEMENT
CASING SIZE <u>8 5/8"</u> DEPTH <u>320'</u>	AMOUNT ORDERED <u>200 SKS COM 320 2966</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>200 SKS</u> @ <u>8.85</u> <u>1770</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>15'</u>	GEL <u>4 SKS</u> @ <u>11.00</u> <u>44</u>
PERFS. _____	CHLORIDE <u>7 SKS</u> @ <u>30.00</u> <u>210</u>
DISPLACEMENT <u>19 1/2 BBL.</u>	_____ @ _____
EQUIPMENT	_____ @ _____
PUMP TRUCK CEMENTER <u>TERRY</u>	_____ @ _____
# <u>191</u> HELPER <u>WAYNE</u>	_____ @ _____
BULK TRUCK _____	HANDLING <u>211 SKS</u> @ <u>1.25</u> <u>263.75</u>
# <u>377</u> DRIVER <u>LARRY</u>	FEES <u>054 PER SK/MILE</u> <u>844</u>
BULK TRUCK _____	_____ @ _____
# _____ DRIVER _____	TOTAL <u>3131</u>

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 KCC WICHITA

REMARKS:

SERVICE

CEMENT DFO CIRC

DEPTH OF JOB _____	<u>320'</u>
PUMP TRUCK CHARGE _____	<u>520</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>80 MI</u> @ <u>4.00</u>	<u>320</u>
PLUG _____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL	<u>840</u>

THANK YOU

CHARGE TO: BEREXCO INC.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLOAT EQUIPMENT

<u>8 5/8 SURFACE PLUG</u> @ _____	<u>45</u>
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL	<u>45</u>

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Keith Van Pelt

PRINTED NAME \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

13888

Federal Tax I.D.# 48-0727860

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

KCC  
SEP 07 2004

SERVICE POINT:

Oakley

DATE <u>7-17-04</u>	SEC <u>8</u>	TWP <u>13</u>	RANGE <u>36w</u>	CALLED OUT <u>CONFIDENTIAL</u>	ON LOCATION <u>1:15 AM</u>	JOB START <u>6:15 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE <u>Moser</u>	WELL # <u>2</u>	LOCATION <u>McDonell 14N W/S</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR Murphy Drlg Rig 3

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4950'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH 2400'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER Sam

CEMENT AMOUNT ORDERED 100 sks 60/40 Poz 6% Gel & #10 Seal

COMMON	<u>60 sks</u>	@ <u>8.85</u>	<u>531.00</u>
POZMIX	<u>40 sks</u>	@ <u>4.00</u>	<u>160.00</u>
GEL	<u>5 sks</u>	@ <u>11.00</u>	<u>55.00</u>
CHLORIDE	_____	@ _____	_____
	_____	@ _____	_____
	_____	@ _____	_____
	_____	@ _____	_____
	_____	@ _____	_____
HANDLING	<u>105 sks</u>	@ <u>1.25</u>	<u>131.25</u>
MILEAGE	<u>54 sk/mile</u>		<u>420.00</u>

TOTAL 1332.25

EQUIPMENT

PUMP TRUCK CEMENTER Dean

# 191 HELPER Wayne

BULK TRUCK

# 315 DRIVER Jarrod

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

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REMARKS:

1st Plug 2400' w/ 35 sks

2nd Plug 325' w/ 40 sks

3rd Plug 40' w/ 10 sks + Plug

15 sks in Rat Hole

Thank you

KCC WICHITA

DEPTH OF JOB 2400'

PUMP TRUCK CHARGE \_\_\_\_\_ 630.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE 80 miles @ 4.00 320.00

PLUG @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 950.00

CHARGE TO: Berexco Inc

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLOAT EQUIPMENT

8 7/8 Dry Hole Plug @ \_\_\_\_\_ 23.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 23.00

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Keith Van Pelt

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME



DRILLING MUD REPORT  
Morgan Mud, Inc.

Toll Free Call  
0-808-345-1255-MUDD  
800-438-4041

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT

REPORT NO. 1

DATE 7-7-04 DEPTH

API WELL NO.	STATE	COUNTY	WELL	%
15143208285E	KS	RAWLINS		

OPERATOR Berexo Inc CONTRACTOR Morgan Drilling Company RIG NO. 3

ADDRESS WICHITA KS ADDRESS Colby KS SPUD DATE 7-7-04

REPORT FOR MR. WRATH REPORT FOR MR. VAN PELT SECTION, TOWNSHIP, RANGE SW 8-15-36W

WELL NAME AND NO. MOSEL #2 FIELD BERMOS COUNTY RAWLINS STATE KANSAS

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
Present Activity <u>Mixing Mud</u>		Surface	Hole	Pits	Pump Size <u>5 1/2 x 14 in.</u>	Annular Vel. (Ft./Min.)	
Bit Size (in.) <u>12 1/4</u>	No. <u>1</u>	Intermediate	Total Circulating Volume		Pump Make <u>NATIONAL</u>	Opposite DP	
Drill Pipe Size <u>4 1/2</u>	Type <u>ZH</u>	Production or Liner	In Storage		Model <u>K-380</u>	Opposite Collar	
Drill Collar Size <u>10 1/4</u>	Length <u>486</u>				Bbl/Stroke <u>124</u>	Circulating Pressure psi	
		Mud Type <u>FRESHWATER</u>			Bbl/Min	Bottoms Up (Min.)	
						System Total (Min.)	

MUD PROPERTIES				EQUIPMENT			
Time Sample Taken <input type="checkbox"/> AM <input type="checkbox"/> PM				SIZE	HRS./TOUR	SIZE	HRS./TOUR
Depth (ft.)				Centrifuge		Premix	<u>1 1/4</u>
Funnel Viscosity (sec/qt)				Degasser		FRAC	<u>1 1/4</u>
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.)				Desander		Other	
Mud Gradient (psi/ft.)				DAILY COST		CUMULATIVE COST	
Hydrostatic Head (psi)				MUD PROPERTIES SPECIFICATIONS			
L C M (pph)				WEIGHT <u>9.8</u>	VISCOSITY <u>38</u>	FILTRATE <u>N/A</u>	
600/300°				BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
Plastic Viscosity (cps)				<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
Yield Point (lb/100 Sq. Ft.)				TOUR TREATMENT			
"N" Value				<u>SUGGEST:</u>			
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.)				<u>SET AND CLEAN PITS AND</u>			
Gel Strength (lb/100 sq.ft.) 10 sec./10 min.				<u>RUN WATER AS NEEDED TO</u>			
Filtrate API (ml/30 min.)				<u>MAINTAIN MUD WT. 8.8 OR LESS</u>			
Cake Thickness (32nd in.) <input type="checkbox"/> API <input type="checkbox"/> HP-HT				<u>OUT FROM UNDER</u>			
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter				<u>SURFACE AND EVERY OTHER</u>			
Alkalinity, Mud (Pm)				<u>CONNECTION POINT 1 QUART</u>			
Alkalinity, Filtrate (P/F/M)				<u>LIQUID DRIPAL DOWN PIPE.</u>			
Chloride Salt <input type="checkbox"/> ppm <input type="checkbox"/> Potassium Ion (% by Vol.) <input type="checkbox"/>				<u>AT 2000' PORTLAND</u>			
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/>				<u>DAKOTA - MIX!</u>			
Sand Content (% by Vol.)				<u>GPL for vis 34-38 cp/ft</u>			
Solids Content (% by Vol.) Calculated <input type="checkbox"/> Retort <input type="checkbox"/>				<u>5 CEDAR FIBER</u>			
Oil Content (% by Vol.)				<u>20 c/c HULLS</u>			
Water Content (% by Vol.)				<u>* WHILE DRILLING SANK</u>			

PLEASE CALL OR

ANY PROBLEMS

CALL 1900

THANK YOU

WV

IN TAILS GO IN SLOW!

KEEP HOLE FULL!

\* WHILE DRILLING SANK

SLOW PUMP TO 500 RPM AND

DRILL EASY!

MMI Engineer DAVE LINES Home Phone 345-7262 Mobile Phone 340-5946

Warehouse McCook Location Phone (308) 345-1255

Amount Used by  Inventory  Daily Log

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Daily Cost		Cumulative Cost		Remarks	
Products	Units	Cum. Units	Unit Cost	Cost	
Gel		<u>76</u>	<u>7.25</u>	<u>551.-</u>	<u>"I am among you as one who serves" Lk. 22-27</u>
Lignite (Lamax)					<u>Remarks #100 @ 3248'</u>
Caustic Soda					
Soda Ash					
Dripsac					
Cottonseed Hulls					
Cedar Fiber					
Lime	<u>3</u>		<u>8.-</u>	<u>24.-</u>	
DESCO					

"I am among you as one who serves" Lk. 22-27

Remarks #100 @ 3248'

BIT INFORMATION				
TYPE	JETS	DEV.	DEPTH IN	DEPTH OUT
<u>LTD 10</u>	<u>14</u>		<u>0</u>	



DRILLING MUD REPORT  
Morgan Mud, Inc.

Toll Free Call  
0-308-345-1255  
800-438-4041

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 2

DATE 7-9-04 DEPTH 2125

API WELL NO.	STATE	COUNTY	WELL	1/4
15153208285E	KS	RAWLINS		

OPERATOR BERKCO INC	CONTRACTOR MURKIN DRILLING COMPANY	RIG NO. 3
ADDRESS WICHITA KS	ADDRESS COLBY KS	SPUD DATE 7-7-04
REPORT FOR MR. WREATH	REPORT FOR MR. VAN PELT	SECTION, TOWNSHIP, RANGE 8-15-36W
WELL NAME AND NO. WASER #2	FIELD BERMOS	COUNTY RAWLINS
		STATE KANSAS

OPERATION	CASING	MUD VOLUME (BBL)	CIRCULATION DATA
Present Activity DRILLING	Surface 8 3/4 in. at 320 Ft	Hole Pits	Pump Size 5 1/2 x 14 in.
Bit Size (in.) 7 7/8	Intermediate in at Ft	Total Circulating Volume	Pump Make NATIONAL
Drill Pipe Size 4 1/2	Production or Liner in. at Ft	In Storage	Model K-380
Drill Collar Size 6 1/4	Mud Type FRESHWATER		Bbl/Stroke 124
			Stroke/Min.
			Bbl/Min.

MUD PROPERTIES	EQUIPMENT
Time Sample Taken <input type="checkbox"/> AM <input type="checkbox"/> PM	Centrifuge
Depth (ft)	Degasser
Funnel Viscosity (sec/qt)	Degander
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)	DAILY COST
Mud Gradient (psi/ft)	CUMULATIVE COST
Hydrostatic Head (psi)	MUD PROPERTIES SPECIFICATIONS
L C M (ppb)	WEIGHT 8.8
600/300	VISCOSITY 38
Plastic Viscosity (cps)	FILTRATE
Yield Point (lb/100 Sq. Ft)	BY AUTHORITY
"N" Value	<input type="checkbox"/> OPERATOR'S WRITTEN
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft)	<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE
Gel Strength (lb/100 sq./ft) 10 sec./10 min	<input type="checkbox"/> DRILLING CONTRACTOR
Filtrate A P I (ml/30 min)	<input type="checkbox"/> OTHER
Cake Thickness (32nd in.) <input type="checkbox"/> API <input type="checkbox"/> HP-HT	TOUR TREATMENT
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	SUGGEST:
Alkalinity, Mud (Pm)	- LET AND CLEAN PITS AND
Alkalinity, Filtrate (P/FM)	RUN WATER AS NEEDED TO
Chloride <input type="checkbox"/> ppm <input type="checkbox"/>	MAINTAIN MUD WT. 8.8 OR LESS
Salt <input type="checkbox"/> gpg <input type="checkbox"/>	
Potassium Ion (% by Vol) <input type="checkbox"/>	
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/>	
Sand Content (% by Vol)	
Solids Content (% by Vol) Calculated <input type="checkbox"/>	
Oil Content (% by Vol) Retort <input type="checkbox"/>	
Water Content (% by Vol)	

PLEASE CALL IF ANY PROBLEMS OR LOSSES AT 2940

THANK YOU

4/4

19

At 2940' PRETREAT CEMENT HILLS - MIX: 7 gal per vis 34-40 sec/4

5 CEMENT FIBER 20 CEMENT HILLS

WHILE DRILLING SANDS SLOW PUMP TO 50 PSI AND DRILL EASY

ON TRIPS SLOW IN SLOW (KEEP HOLE FULL)

MMI Engineer DAVE LINN	Home Phone 345-7262	Mobile Phone 340-5946
Warehouse McCook	Location	Phone (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by  Inventory  Daily Log

Daily Cost \$1274.00 Cumulative Cost \$1849.00

"I am among you as one who serves" Lk. 22-27

Product	Units	Cum. Units	Unit Cost	Cost	Remarks
Gei	32	108	7.25	232.00	Drilling
Lignite (Lanz)					<input type="checkbox"/> Tight Hole
Caustic Soda					<input checked="" type="checkbox"/> Lost Returns Fluid @ 1934'
Soda Ash					<input type="checkbox"/> DST Losing Fluid @ 1990'
Drifpac					<input type="checkbox"/> TO
Cottonseed Hulls	42	42	11.00	462.00	<input checked="" type="checkbox"/> Dak top est @ 20050 (2) 8:40am
Cedar Fiber	10	10	18.00	180.00	<input type="checkbox"/> C.H.
Lime		3			<input type="checkbox"/> Anhydrite

BIT INFORMATION					
DESCO	TYPE	JETS	DEV.	DEPTH IN	DEPTH OUT
L Drills	200	400	1/2"	0	320
		1 1/2" FDS 2	145		320



Toll Free Call  
 0-308-345-1255+MUDD  
 800-438-4041

DRILLING MUD REPORT  
**Morgan Mud, Inc.**  
 P.O. Box 644  
 McCook, Nebraska 69001  
 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 3

DATE 7-9 2007 DEPTH \_\_\_\_\_

API WELL NO	STATE	COUNTY	WELL	1/4
15153	NE	208	283E	

OPERATOR BEEVECO INC CONTRACTOR MURKIN DRILLING COMPANY RIG NO. 3

ADDRESS WICAMPA KS ADDRESS 2104 KCS SPUD DATE 7-7-04

REPORT FOR MR. WOLFEATH REPORT FOR MR. VAN PELT SECTION, TOWNSHIP, RANGE 8-15-36W

WELL NAME AND NO. MOSEA #12 FIELD BLENDS COUNTY RAWLINS STATE KANSAS

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
Present Activity		Surface	Hole	Pits	Pump Size	Annular Vel (Ft./Min.)	Opposite DP
Bit Size (in.)	No.	in. at	in. at	Total Circulating Volume	Model	Opposite Collar	Circulating Pressure psi
Drill Pipe Size	Type	Production or Liner	in. at	In Storage	Bbl/Stroke	Stroke/Min.	Bottoms Up (Min.)
Drill Collar Size	Length	Mud Type	in. at		Bbl/Min	System Total (Min.)	

MUD PROPERTIES				EQUIPMENT			
Time Sample Taken	Depth (ft)	Funnel Viscosity (sec/qt)	Weight	Centrifuge	Degasser	Desander	Premix
11:45	2225	48	8.6				R19
Mud Gradient (psi/ft)	Hydrostatic Head (psi)	L C M (ppb)	600"/300"	DAILY COST	CUMULATIVE COST		
1.447	995	12	1				
MUD PROPERTIES SPECIFICATIONS				TOUR TREATMENT			
WEIGHT	VISCOSITY	FILTRATE	SUGGEST:				
8.8	34	N/C	PLEASE CALL SCD NEEDED TO CONTROL LOSSES! JET AND CLEAN PITS AND RUN WATER AS NEEDED TO MAINTAIN WT. 9.0 OR LESS! AT 2940' FRETREAT CEDAR HILLS - MIX: GEL ST. ULS 34-40% 5 CEDAR FIBER 20 G/LS HULLS				

MMI Engineer DAVE LINES Home Phone 345-7262 Mobile Phone 340-5946

Warehouse McCook Location \_\_\_\_\_ Phone (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by  Inventory  Daily Log

Daily Cost 4313.- Cumulative Cost \$6162.- "I am among you as one who serves" Lk. 22-27

Products	Units	Cum. Units	Unit Cost	Cost	Remarks
Gel	252	360	7.25	1927.-	<input checked="" type="checkbox"/> Drilling
Lignite (Lanox)					<input type="checkbox"/> Tight Hole
Caustic Soda					<input checked="" type="checkbox"/> Lost Returns @ 2205' @ 2225'
Soda Ash					<input type="checkbox"/> DST (Lost 1200-1500 bbls)
Drispac					<input type="checkbox"/> TD
Cottonseed Hulls	226	268	11.-	2486.-	<input type="checkbox"/> Dak
Cedar Fiber		10			<input type="checkbox"/> C.H
Lime		3			<input type="checkbox"/> Anhydrite

BIT INFORMATION

DESCO	TYPE	JETS	DEV	DEPTH IN	DEPTH OUT
L Dr-2	FBS2	146		320	2205
	F120	143		2205	



Toll Free Call  
 0-308-345-1255+MUDD  
 800-438-4041

DRILLING MUD REPORT  
**Morgan Mud, Inc.**

P.O. Box 644  
 McCook, Nebraska 69001  
 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 4

DATE	7-10-04	DEPTH	
API WELL NO.	15153208285C	STATE	KS
COUNTY	RAWLINS	WELL	
		1/4	

OPERATOR BEDEXCO INC	CONTRACTOR MURKIN DRILLING COMPANY	RIG NO. 3
ADDRESS WICHITA KS	ADDRESS CORA KS	SPUD DATE 7-7-04
REPORT FOR MR WREATH	REPORT FOR MR VAN PEIT	SECTION, TOWNSHIP, RANGE 8-15-36w
WELL NAME AND NO. MOSEB #2	FIELD BERMOS	COUNTY RAWLINS
		STATE KANSAS

OPERATION DRILLING	CASING Surface in. at 300 Ft	MUD VOLUME (BBL) Hole P/Is 300	CIRCULATION DATA Pump Size 5 1/2 x 14 in.	Annular Vel. (Ft./Min.)
Bit Size (in.) 7/8	Intermediate in. at	Total Circulating Volume	Pump Make NATIONAL	Opposite DP
Drill Pipe Size 4 1/2	Production or Liner in. at	In Storage	Model K-380	Opposite Collar
Drill Collar Size 1 1/4	Mud Type FRESHWATER		Bbl/Stroke 124	Circulating Pressure psi
			Stroke/Min.	Bottoms Up (Min.)
			Bbl/Min	System Total (Min.)

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES			EQUIPMENT	
Flowline Temperature °F				SIZE	HRS./TOUR
Time Sample Taken <input type="checkbox"/> AM <input type="checkbox"/> PM				Centrifuge	
Depth (ft)				Degasser	
Funnel Viscosity (sec/qt)				Desander	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft)				DAILY COST	
Mud Gradient (psi/ft)				CUMULATIVE COST	
Hydrostatic Head (psi)				MUD PROPERTIES SPECIFICATIONS	
L C M (ppb)				WEIGHT 9.3	VISCOSITY 45
600"/300"				BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
Plastic Viscosity (cps)				<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
Yield Point (lb/100 Sq. Ft.)				TOUR TREATMENT	
"H" Value				SUGGEST: MAINTAIN 10-12 ppg LCM	
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.)				AT 3500' DISPLACE MUD SYSTEM - TO FILL FRAC TANK MIX!	
Gel Strength (lb/100 sq/ft.) 10 sec/10 min.				4 SODA ASH	
Filtrate A P I (ml/30 min.)				1 CAUSTIC	
Cake Thickness (32nd in.) <input type="checkbox"/> API <input type="checkbox"/> HP-HT				1 LIGNITE	
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter				1/2 DRISPAK	
Alkalinity, Mud (Pm)				Gel for vis	
Alkalinity, Filtrate (P/M)				Hulls 5 meters AmudSeed	
Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Salt <input type="checkbox"/> ppg <input type="checkbox"/> Potassium Ion (% by Vol) <input type="checkbox"/>				THESE MIX 40' for vis	
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/>				45 sec let to drill	
Sand Content (% by Vol.)					
Solids Content (% by Vol.) Calculated <input type="checkbox"/> Retort <input type="checkbox"/>					
Oil Content (% by Vol.)					
Water Content (% by Vol.)					

ON TRAIL 5 (70 IN SIC) KEEP HOLE FULL!

MMI Engineer DAVE LINES	Home Phone 345-7262	Mobile Phone 340-5946
Warehouse McCook	Location	Phone (308) 345-1255

Amount Used by  Inventory  Daily Log THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

"I am among you as one who serves" Lk. 22-27

Daily Cost	Products	Units	Cum. Units	Unit Cost	Cost	Remarks
\$5873.-	Gel	348	708	7.25	2523.-	<input checked="" type="checkbox"/> Drilling
	Lignite (Lenox)					<input type="checkbox"/> Tight Hole
	Caustic Soda					<input type="checkbox"/> Lost Returns volume 80 bbl per hour req'd
	Soda Ash					<input type="checkbox"/> DST
	Drispac					<input type="checkbox"/> TD
	Cottonseed Hulls	280	548	11.-	3080.-	<input type="checkbox"/> Dak
	Cedar Fiber	15	25	18.-	270.-	<input type="checkbox"/> C.H.
	Line		3			<input type="checkbox"/> Anhydrite
	DESCO					
	L.Dr.		2			

BIT INFORMATION				
TYPE	JETS	DEV	DEPTH IN	DEPTH OUT
F170	143		2205	





Toll Free Call  
 0-308-345-1255 MUDD  
 800-4384041

DRILLING MUD REPORT  
**Morgan Mud, Inc.**

P.O. Box 644  
 McCook, Nebraska 69001  
 Phone: (308) 345-1255

DRILLING MUD REPORT				REPORT NO. <b>5</b>
DATE	<b>7-7-04</b>	DEPTH	<b>2573</b>	
API WELL NO.	STATE	COUNTY	WELL	1/4
	<b>151</b>	<b>3208</b>	<b>28</b>	<b>SK</b>

OPERATOR <b>BEREXIA INC</b>	CONTRACTOR <b>MURFIN DRILLING COMPANY</b>	RIG NO. <b>3</b>
ADDRESS <b>WICHITA KS</b>	ADDRESS <b>WICHITA KS</b>	SPUD DATE <b>7-7-04</b>
REPORT FOR MR. <b>WREATH</b>	REPORT FOR MR. <b>VAN PELT</b>	SECTION, TOWNSHIP, RANGE <b>8-15-36W</b>
WELL NAME AND NO. <b>MOSER #2</b>	FIELD <b>BERNOS</b>	COUNTY <b>RAWLINS</b>
		STATE <b>KANSAS</b>

OPERATION <b>Drilling</b>	CASING Surface <b>8 7/8</b> in. at <b>320</b> Ft.	MUD VOLUME (BBL) Hole Pits <b>215</b> <b>300</b>	CIRCULATION DATA Pump Size <b>5 1/2 x 14</b> in.	Annular Vel. (Ft./Min.) <b>107</b>
Bit Size (in.) <b>7 7/8</b>	No. <b>2</b>	Intermediate in at Ft.	Total Circulating Volume <b>515</b>	Opposite DP <b>195</b>
Drill Pipe Size <b>4 1/2</b>	Type <b>XH</b>	Production or Liner in at Ft.	In Storage	Opposite Collar <b>400</b>
Drill Collar Size <b>6 3/4</b>	Length <b>486</b>	Mud Type <b>CHEMICAL</b>	Pump Make <b>NATIONAL</b>	Circulating Pressure psi <b>400</b>
			Model <b>K-380</b>	Bottoms Up (Min.) <b>33 ±</b>
			Bbl/Stroke <b>1.24</b>	System Total (Min.) <b>118 ±</b>
			Stroke/Min <b>44</b>	
			Bbl/Min <b>4.36</b>	

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES		EQUIPMENT		
Flowline Temperature °F			SIZE	HRS./TOUR	
Time Sample Taken <input type="checkbox"/> AM <input type="checkbox"/> PM	<b>4:45</b>		Centrifuge		
Depth (ft.)	<b>3573</b>		Degasser		
Funnel Viscosity (sec/qt)	<b>48</b>		Desander		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.)	<b>8.16</b>		DAILY COST		
Mud Gradient (psi/ft.)	<b>.447</b>		CUMULATIVE COST		
Hydrostatic Head (psi)	<b>1598</b>		MUD PROPERTIES SPECIFICATIONS		
L C M (ppb)	<b>8</b>		WEIGHT <b>9.3</b>	VISCOSITY <b>45</b>	FILTRATE <b>8.1</b>
600/700°	<b>45130</b>	<b>1</b>	BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
Plastic Viscosity (cps)	<b>15</b>		<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
Yield Point (lb/100 Sq. Ft.)	<b>15</b>		TOUR TREATMENT		
"N" Value	<b>.58</b>		SUGGEST:		
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.)	<b>.86</b>		All tours mix w/ 1/2 in. water		
Gel Strength (lb/100 sq. ft.) 10 sec./10 min.	<b>1229</b>		45-48 sec/gt to drill		
Filtrate A P I (ml/30 min.)	<b>16.8</b>		MAINTAIN 4-8 ppg in system		
Cake Thickness (32nd in.) <input checked="" type="checkbox"/> API <input type="checkbox"/> HP-HT	<b>1</b>		RUN 1/4 TO 1/2 INCH STREAM OF WATER AND JET IF NEEDED TO MAINTAIN MUD INT. 9.3 OR LESS!		
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<b>11.5</b>		ON TOURS (20 IN. SLIGHT) KEEP HOSE FULL!		
Alkalinity, Mud (Ppm)	<b>2.4</b>				
Alkalinity, Filtrate (P/M)	<b>14129</b>	<b>1</b>			
Chloride <input type="checkbox"/> ppm <input type="checkbox"/> Salt <input checked="" type="checkbox"/> ppm	<b>700</b>				
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/>	<b>10</b>				
Sand Content (% by Vol.)	<b>.25</b>				
Solids Content (% by Vol.) Calculated <input checked="" type="checkbox"/> Retort <input type="checkbox"/>	<b>2.15</b>				
Oil Content (% by Vol.)	<b>0</b>				
Water Content (% by Vol.)	<b>97.16</b>				

MMI Engineer <b>DAVE LINEZ</b>	Home Phone <b>308-345-7262</b>	Mobile Phone <b>308-340-5946</b>
Warehouse <b>McCook</b>	Location	Phone <b>(308) 345-1255</b>

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by <input type="checkbox"/> Inventory <input type="checkbox"/> Daily Log	Daily Cost <b>\$ 7238.-</b>		Cumulative Cost <b>\$ 19373.-</b>		"I am among you as one who serves" Lk. 22-27 Remarks <b>Discharge @ 3550' complete @ 3568'</b>	
	Products	Units	Cum. Units	Unit Cost	Cost	
	Get	<b>208</b>	<b>916</b>	<b>7.25</b>	<b>1508.-</b>	<input checked="" type="checkbox"/> Drilling
	Lignite (Lenox)	<b>5</b>	<b>5</b>	<b>20.-</b>	<b>100.-</b>	<input type="checkbox"/> Tight Hole
	Caustic Soda	<b>5</b>	<b>5</b>	<b>50.-</b>	<b>250.-</b>	<input checked="" type="checkbox"/> Lost Returns <b>2932'</b>
	Soda Ash	<b>20</b>	<b>20</b>	<b>22.-</b>	<b>440.-</b>	<input type="checkbox"/> DST Logging Fluid 80 bbl/hr to 3175'
	Driscap	<b>3</b>	<b>3</b>	<b>275.-</b>	<b>825.-</b>	<input type="checkbox"/> TD
	Cottonseed Hulls	<b>228</b>	<b>968</b>	<b>11.-</b>	<b>2420.-</b>	<input checked="" type="checkbox"/> C.H. @ 2994' SAND @ 3056'
	Cedar Fiber	<b>65</b>	<b>90</b>	<b>18.-</b>	<b>1170.-</b>	<input checked="" type="checkbox"/> Anhydrite @ 3184' - 3219'
	Lime	<b>3</b>	<b>3</b>			
	DESCO					BIT INFORMATION
						TYPE
	<b>Lidius</b>	<b>2</b>	<b>2</b>	<b>26.-</b>	<b>625.-</b>	<b>F170</b>
	<b>Mud Supl</b>	<b>25</b>	<b>25</b>			<b>DEV.</b>
						<b>DEPTH IN</b>
						<b>DEPTH OUT</b>



DRILLING MUD REPORT  
Morgan Mud, Inc.

Toll Free Call  
0-800-345-1255  
800-438-4641

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT				REPORT NO. <u>6</u>
DATE	<u>7-12</u>	20 <u>04</u>	DEPTH	<u>3820</u>
API WELL NO.	<u>15153208285E</u>	STATE	<u>KS</u>	COUNTY
		WELL	<u>8-1S-36W</u>	1/4

OPERATOR <u>BEREXCO INC</u>	CONTRACTOR <u>MURKIN DRILLING COMPANY</u>	RIG NO.	<u>3</u>
ADDRESS <u>NICHITA KS</u>	ADDRESS <u>CLAY KS</u>	SPUD DATE	<u>7-7-04</u>
REPORT FOR MR. <u>WRIGHT</u>	REPORT FOR MR. <u>VAN PELT</u>	SECTION, TOWNSHIP, RANGE	<u>8-1S-36W</u>
WELL NAME AND NO. <u>MOSEY #2</u>	FIELD <u>BERMOS</u>	COUNTY	<u>RAWLINS</u>
		STATE	<u>KANSAS</u>

OPERATION <u>Drilling</u>		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
Present Activity	<u>Drilling</u>	Surface	<u>8 3/8</u>	Hole	<u>250 ±</u>	Pits	<u>250 ±</u>
Bit Size (in.)	<u>7 7/8</u>	No.	<u>2</u>	Intermediate	Total Circulating Volume		<u>480 ±</u>
Drill Pipe Size	<u>4 1/2</u>	Type	<u>XH</u>	Production or Liner	In Storage	Rate	<u>Rate</u>
Drill Collar Size	<u>6 1/4</u>	Length	<u>486</u>	Mud Type	<u>CHEMICAL</u>		

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES		EQUIPMENT	
Flowline Temperature	°F		SIZE	HRS./TOUR
Time Sample Taken	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	<u>5:55</u>	Centrifuge	
Depth (ft.)		<u>3820</u>	Degasser	
Funnel Viscosity (sec./qt.)		<u>48</u>	Desander	
Weight (ppg) <input checked="" type="checkbox"/> (lb./cu. ft.) <input type="checkbox"/>		<u>8.9</u>	DAILY COST	CUMULATIVE COST
Mud Gradient (psi/ft.)		<u>.463</u>	MUD PROPERTIES SPECIFICATIONS	
Hydrostatic Head (psi)		<u>1768</u>	WEIGHT	<u>9.3</u>
L C M (ppb)		<u>8</u>	VISCOSITY	<u>45</u>
600°/300°		<u>45/30</u>	FILTRATE	<u>8cc</u>
Plastic Viscosity (cps)		<u>15</u>	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
Yield Point (lb./100 sq. ft.)		<u>15</u>	<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
"N" Value		<u>.58</u>	TOUR TREATMENT	
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.)		<u>.87</u>	<u>SUGGEST:</u>	
Gel Strength (lb./100 sq./ft.) 10 sec./10 min.		<u>13/32</u>	<u>DAYLITES MIX:</u>	
Filtrate A P I (mL/30 min.)		<u>8.8</u>	<u>5 CEDAR FIBER</u>	
Cake Thickness (32nd in.) <input checked="" type="checkbox"/> API <input type="checkbox"/> HF-HT		<u>2</u>	<u>8 SODA ASH</u>	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<u>10.0</u>	<u>1 CAUSTIC</u>	
Alkalinity, Mud (Pm)		<u>1.1</u>	<u>1 LIGNITE</u>	
Alkalinity, Filtrate (PI/M)		<u>.5/1.2</u>	<u>1 DRISPAK</u>	
Chloride (ppm) <input type="checkbox"/> Salt <input type="checkbox"/>		<u>700</u>	ALL TOWER MIX GOT TOO VIS:	
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/>		<u>40</u>	<u>45-48 sp. let to drill</u>	
Sand Content (% by Vol.)		<u>.25</u>	RUN 1/4 TO 1/2 INCH STREAM	
Solids Content (% by Vol.)	Calculated <input type="checkbox"/> Retort <input type="checkbox"/>	<u>4.25</u>	OF WATER AND SET IF NEEDED	
Oil Content (% by Vol.)		<u>0</u>	TO MAINTAIN MUD WT. 9.3	
Water Content (% by Vol.)		<u>95.5</u>	OR LESS!	

MAINTAIN 4-8 API 100 IN SYSEA  
ON TRIPS GO IN SLOW  
KEEP HOSE FULL!

MMI Engineer <u>DAVE LINES</u>	Home Phone <u>345-7262</u>	Mobile Phone <u>340-5946</u>
Warehouse <u>McCook</u>	Home Phone	Mobile Phone
	Location	Phone <u>(308) 345-1255</u>

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by  Inventory  Daily Log

Daily Cost	<u>\$1661.-</u>	Cumulative Cost	<u>#20034</u>
Products	Units	Cum. Units	Unit Cost
Gel	<u>36</u>	<u>952</u>	<u>7.25</u>
Lignite (Lenox)	<u>5</u>		
Caustic Soda	<u>5</u>		
Soda Ash	<u>20</u>		
Drispac	<u>3</u>		
Cottonseed Hulls	<u>20</u>	<u>788</u>	<u>11.-</u>
Cedar Fiber	<u>16</u>	<u>188</u>	<u>18.-</u>
Lime	<u>3</u>		
DESCO			
<u>MSEA 1</u>	<u>25</u>		
<u>L. D. 15</u>	<u>2</u>		

"I am among you as one who serves" Lk. 22-27

Remarks			
<input checked="" type="checkbox"/> Drilling			
<input type="checkbox"/> Tight Hole			
<input type="checkbox"/> Lost Returns			
<input checked="" type="checkbox"/> DST #1 @ 3801'			
<input type="checkbox"/> TD			
<input type="checkbox"/> Dak			
<input type="checkbox"/> C.H.			
<input type="checkbox"/> Anhydrite			
BIT INFORMATION			
TYPE	JETS	DEV.	DEPTH IN
<u>F120</u>	<u>145</u>	<u>1/20</u>	<u>2205</u>
<u>F120</u>	<u>143</u>		<u>3801</u>



DRILLING MUD REPORT  
Morgan Mud, Inc.

Toll Free Call  
0-308-345-1255+MUDD  
800-438-4041

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT				REPORT NO. 7
DATE 7-12-04	DEPTH 4006			
API WELL NO. 1515320828SE	STATE KS	COUNTY	WELL	1/4

OPERATOR BEREXCO INC	CONTRACTOR MANTAN Drilling Company	RIG NO. 3
ADDRESS NICHITA KS	ADDRESS COLBY KS	SPUD DATE 7-7-04
REPORT FOR MR. WREATH	REPORT FOR MR. VAN PELT	SECTION, TOWNSHIP, RANGE 8-15-36W
WELL NAME AND NO. MOSEL #2	FIELD BERAMOS	COUNTY RAWLINS
		STATE KANSAS

Present Activity CIRC COND SAMPLES	CASING Surface 8 5/8 in. at 320 Ft.	MUD VOLUME (BBL) Hole 292 ± Pits 300 ±	Pump Size 5 1/2 x 14 in.	CIRCULATION DATA Annular Vel. (Ft./Min.) 117
Bit Size (in.) 7 7/8	Intermediate	Total Circulating Volume 541 ±	Pump Make NATIONAL	Opposite DP 213
Drill Pipe Size 4 1/2	Type KH	Production or Liner	Model K-380	Opposite Collar 400
Drill Collar Size 6 1/4	Length 486	Mud Type CHEMICAL	Bbl/Stroke 124	Circulating Pressure psi 400
			Stroke/Min. 48	Bottoms Up (Min.) 34 1/2
			Bbl/Min 4.76	System Total (Min.) 114 ±

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES		EQUIPMENT	
Flowline Temperature °F	SIZE	HRS./TOUR	SIZE	HRS./TOUR
Time Sample Taken <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM 5:50	Centrifuge		Premix	219
Depth (ft) 4006	Degasser		FRAC	219
Funnel Viscosity (sec/qt) 58	Desander		Other	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) 8.7	DAILY COST		CUMULATIVE COST	
Mud Gradient (psi/ft) .452	MUD PROPERTIES SPECIFICATIONS			
Hydrostatic Head (psi) 1812	WEIGHT 9.3	VISCOSITY 48	FILTRATE 8cc	
LCM (ppb) 12	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
600°/300° 58139 1 1	<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
Plastic Viscosity (cps) 19	YOUR TREATMENT			
Yield Point (lb./100 Sq. Ft.) 20	SUGGEST:			
"N" Value .57	All tanks mix gel for vis.			
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.) 1.16	48' set to drill			
Gel Strength (lb./100 sq.ft.) 10 sec./10 min. 16139	MANTAN 14-18 job			
Filtrate API (mL/30 min) 6.8	LCM IN SYSTEM			
Cake Thickness (32nd in.) <input checked="" type="checkbox"/> API <input type="checkbox"/> HP-HT 2	ON THIS 5 Gals in system			
pH <input type="checkbox"/> Strip <input checked="" type="checkbox"/> Meter 9.5	KEEP HOLE FULL			
Alkalinity, Mud (Pm) .85				
Alkalinity, Filtrate (PI/M) .411.0				
Chloride <input type="checkbox"/> ppm <input checked="" type="checkbox"/> 80° <input type="checkbox"/> Potassium Ion (% by Vol) <input type="checkbox"/> 1500				
Calcium (ppm) <input checked="" type="checkbox"/> Byp (ppb) <input type="checkbox"/> 10				
Sand Content (% by Vol) .25				
Solids Content (% by Vol) Calculated <input checked="" type="checkbox"/> Return <input type="checkbox"/> 2.9				
Oil Content (% by Vol) 1.0				
Water Content (% by Vol) 95.85				

MMI Engineer DAVE LINES	Home Phone 345-7262	Mobile Phone 340-5946
Warehouse McCook	Location	Phone (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by  Inventory  Daily Log

Daily Cost \$ 3248.- Cumulative Cost \$ 23282.-

"I am among you as one who serves" Lk. 22-27

Products	Units	Cum. Units	Unit Cost	Cost	Remarks
Gel	72	1024	7.25	522.-	<input checked="" type="checkbox"/> Drilling
Lignite (Lenox)	1	6	20.-	20.-	<input type="checkbox"/> Tight Hole
Caustic Soda	1	6	50.-	50.-	<input type="checkbox"/> Lost Returns
Soda Ash	8	28	22.-	176.-	<input type="checkbox"/> DST
Drispac	1	4	275.-	275.-	<input type="checkbox"/> TD
Cottonseed Hulls	135	923	11.-	1485.-	<input type="checkbox"/> Dak
Cedar Fiber	40	146	18.-	720.-	<input type="checkbox"/> C.H.
Lime		3			<input type="checkbox"/> Anhydrite
DESCO					
M. Seal		25			
C.D.C.		2			

BIT INFORMATION					
DESCO	TYPE	JETS	DEV	DEPTH IN	DEPTH OUT
M. Seal	F120	143		3801	



DRILLING MUD REPORT  
Morgan Mud, Inc.

Toll Free Call  
0-308-345-1255+MUDD

P.O. Box 644  
McCook, Nebraska 69001

Phone: (308) 345-1255

DRILLING MUD REPORT

REPORT NO. 8

DATE	7-13-04	DEPTH	4172
API WELL NO.	15153208285E	STATE	WELL
		COUNTY	1/4

OPERATOR Borexco Inc	CONTRACTOR Morgan Drilling Company	RIG NO. 3
ADDRESS Wichita KS	ADDRESS Wichita KS	SPUD DATE 7-7-04
REPORT FOR MR. WDEATH	REPORT FOR MR. VAN BELT	SECTION, TOWNSHIP, RANGE 8-15-36W
WELL NAME AND NO. MOSEB #2	FIELD BERNOS	COUNTY RAWLINS
		STATE KANSAS

OPERATION Drilling	CASING Surface in. at 320 Ft.	MUD VOLUME (BBL) Hole Pits 252 ± 300	CIRCULATION DATA Pump Size 2 1/2 x 14 in.
Bit Size (in.) 7/8	Intermediate in. at	Total Circulating Volume 532 ±	Annular Vel (Ft./Min.) Opposite DP 127
Drill Pipe Size 4 1/2	Production or Liner in. at	In Storage 80 ±	Opposite Collar 231
Drill Collar Size 6 1/4	Mud Type CHEMICAL	Bbl/Stroke 124	Circulating Pressure psi 400
		Bbl/Min 5.16	Bottoms Up (Min.) 33 ±
			System Total (Min.) 103 ±

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES		EQUIPMENT	
Flowline Temperature °F	SIZE	HRS./TOUR	SIZE	HRS./TOUR
Time Sample Taken <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	Centrifuge		Premix	TRV9
Depth (ft) 4172	Degasser		FRAC	RAG
Funnel Viscosity (sec/qt) 52	Desander		Other	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft) 8.8	DAILY COST		CUMULATIVE COST	
Mud Gradient (psf/ft) 4.58	MUD PROPERTIES SPECIFICATIONS			
Hydrostatic Head (psi) 1909	WEIGHT 9.3	VISCOSITY 48 ±	FILTRATE 8cc	
L C M (ppb) 12	BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
600°/300° 49/133	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
Plastic Viscosity (cps) 16	TOUR TREATMENT			
Yield Point (lb/100 Sq. Ft) 19	SUGGEST			
"N" Value .57	All tools mix bit for vis.			
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft) .98	48 sec/ft to drill			
Gel Strength (lb/100 sq.ft) 10 sec/10 min. 13/11	Prior to DST #2 spot			
Filtrate A P I (ml/30 min) 7.2	bit of mud on bottom for			
Cake Thickness (32nd in.) <input checked="" type="checkbox"/> API <input type="checkbox"/> HP-HT 2	DST.			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter 9.5	Maintain 10-15 ppb LCM			
Alkalinity, Mud (Pm) .8	in system.			
Alkalinity, Filtrate (PI/M) 11.5				
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> ppm 1400				
Salt <input type="checkbox"/> ppm <input type="checkbox"/> ppm				
Calcium (ppm) <input checked="" type="checkbox"/> Gyp (ppb) <input type="checkbox"/> 10				
Sand Content (% by Vol) 25				
Solids Content (% by Vol) Calculated <input checked="" type="checkbox"/> Retort <input type="checkbox"/> 3.6				
Oil Content (% by Vol) 10				
Water Content (% by Vol) 95.15				

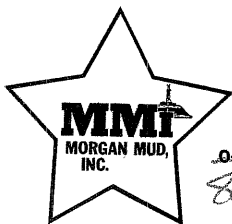
Premix has spotting tank with:  
4 SODA ASH  
1 LIGNITE  
1/2 NAISDAL

ON TRIP TO GO IN SLOW  
KEEP HOLE FULL.

MMI Engineer	DAVE LINES	Home Phone	345-7262	Mobile Phone	340-5946
Warehouse	McCook	Home Phone		Mobile Phone	
		Location		Phone	(308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by <input type="checkbox"/> Inventory <input type="checkbox"/> Daily Log	"I am among you as one who serves" Lk. 22-27			
Daily Cost \$216.-	Cumulative Cost \$23498.-	Remarks		
Products	Units	Cum. Units	Unit Cost	Cost
Gel		1024		
Lignite (Lenox)	1	7	20-	20-
Caustic Soda		6		
Soda Ash	4	37	22-	88-
Drispac		4		
Cottonseed Hulls		923		
Cedar Fiber	6	146	18.-	108-
Lime		3		
DESCO				
DRS		25		
L. Revis		7		
BIT INFORMATION				
TYPE	JETS	DEV.	DEPTH IN	DEPTH OUT
F170	145		3901	



DRILLING MUD REPORT  
Morgan Mud, Inc.

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800-438-4041

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 9  
DATE 7-14 2004 DEPTH 4273  
API WELL NO. 1515320R285E STATE COUNTY WELL 1/4

OPERATOR Beperco Inc CONTRACTOR Morgan Drilling Company RIG NO. 3  
ADDRESS Wichita KS ADDRESS Wichita KS SPUD DATE 7-7-04  
REPORT FOR MR. WREATA REPORT FOR MR. VAN PELT SECTION, TOWNSHIP, RANGE 8-15-36W  
WELL NAME AND NO. MOSEA #12 FIELD BERMOS COUNTY RAWLINS STATE KANSAS

OPERATION Mixing LCM CASING 8 5/8 MUD VOLUME (BBL) 258 PITS 260 CIRCULATION DATA  
Present Activity Mixing LCM Surface in. at 320 Ft. 258 Hole in at 320 Ft. 260 Pump Size 5 1/2 x 14 in. Annular Vel. (Ft./Min.) 122  
Bit Size (in.) 7 7/8 No. 2 Intermediate in. at 320 Ft. 258 Total Circulating Volume 578 Pump Make NATIONAL Model K-380 Opposite DP 222  
Drill Pipe Size 4 1/2 Type X4 Production or Liner in. at 320 Ft. 40 In Storage 40 Bbl/Stroke 124 Stroke/Min. 50 Opposite Collar 222  
Drill Collar Size 1 6/14 Length 496 Mud Type CHEMICAL Bbl/Min. 4.90 Circulating Pressure psi 500 Bottoms Up (Min.) 35'  
System Total (Min.) 104'

Sample from  Flowline  Pit FLOWLINE TEMPERATURE          °F MUD PROPERTIES EQUIPMENT

TIME SAMPLE TAKEN	SIZE	HRS./TOUR	SIZE	HRS./TOUR
Time Sample Taken <input type="checkbox"/> AM <input type="checkbox"/> PM	Centrifuge		Premix	<u>R15</u>
Depth (ft.) <u>4273</u>	Degasser		FRAC	<u>R15</u>
Funnel Viscosity (sec./qt.) <u>52</u>	Desander		Other	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>8.9</u>	DAILY COST CUMULATIVE COST			
Mud Gradient (psi/ft.) <u>1.463</u>	MUD PROPERTIES SPECIFICATIONS			
Hydrostatic Head (psi) <u>1978</u>	WEIGHT <u>9.3</u>	VISCOSITY <u>48+</u>	FILTRATE <u>1/2</u>	
L C M (ppb) <u>18</u>	BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
600°/300° <u>5134</u> 1 1	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
Plastic Viscosity (cps) <u>17</u>	TOUR TREATMENT			
Yield Point (lb./100 sq. ft.) <u>17</u>	<u>SUGGEST:</u>			
"N" Value <u>.58</u>	<u>MAINTAIN 14-20 ppg LCM</u>			
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.) <u>.96</u>	<u>IN SYSTEM WHILE DRILLING</u>			
Gel Strength (lb./100 sq./ft.) 10 sec./10 min. <u>14.138</u>	<u>All tools mix w/ 1/2 vts</u>			
Filtrate API (ml/30 min.) <u>7.2</u>	<u>48 sec. to drill</u>			
Cake Thickness (32nd in.) <input type="checkbox"/> API <input type="checkbox"/> HP-HT <u>2</u>	<u>Run 1/4 to 1/2 inch stream</u>			
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter <u>9.5</u>	<u>of water and jet if needed</u>			
Alkalinity, Mud (Pm) <u>1.7</u>	<u>to maintain mud wt 9.3</u>			
Alkalinity, Filtrate (P/FM) <u>11.5</u>	<u>or less!</u>			
Chloride <input type="checkbox"/> Salt <input type="checkbox"/> Potassium Ion (% by Vol) <input type="checkbox"/> <u>1400</u>				
Calcium (ppm) <input type="checkbox"/> Gyp (ppb) <input type="checkbox"/> <u>20</u>				
Sand Content (% by Vol) <u>.25</u>				
Solids Content (% by Vol) Calculated <input type="checkbox"/> Retort <input type="checkbox"/> <u>4.35</u>				
Oil Content (% by Vol) <u>1.0</u>				
Water Content (% by Vol) <u>94.4</u>				

IF DST #3 RUN MIX FOR STOPPING  
4 SODA ASH  
1 LIGNITE  
1/2 DISCAL  
ON TRIP (Go in Sign)  
KEEP HOLE FULL

MMI Engineer DAVE LINES Home Phone 345-7262 Mobile Phone 340-5946  
Warehouse McCook Location          Phone (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

Amount Used by  Inventory  Daily Log "I am among you as one who serves" Lk. 22-27

Daily Cost	Products	Units	Cum. Units	Unit Cost	Cost	Remarks
<u>\$ 3114.-</u>						
	Gal	<u>34</u>	<u>1060</u>	<u>2.25</u>	<u>261.-</u>	<input type="checkbox"/> Drilling
	Lignite (Lenox)	<u>7</u>				<input type="checkbox"/> Tight Hole
	Caustic Soda	<u>6</u>				<input type="checkbox"/> Lost Returns
	Soda Ash	<u>32</u>				<input checked="" type="checkbox"/> DST #2 @ 4215'
	Driscap	<u>4</u>				<input type="checkbox"/> TD
	Cottonseed Hulls	<u>121</u>	<u>1034</u>	<u>11.-</u>	<u>1331.-</u>	<input type="checkbox"/> Dak <u>losing fluid bsd! w/ DST #12</u>
	Cedar Fiber	<u>29</u>	<u>175</u>	<u>18.-</u>	<u>522.-</u>	<input type="checkbox"/> C.H.
	Lime	<u>3</u>				<input type="checkbox"/> Anhydrite
	DESCO					BIT INFORMATION
	Mulle Seal	<u>40</u>	<u>40</u>	<u>25.-</u>	<u>1000.-</u>	TYPE JETS DEV. DEPTH IN DEPTH OUT
	M.A Seal	<u>25</u>				<u>E170 NS 3801 4215</u>
	L. Dris	<u>2</u>				<u>E170 IS 4215</u>



DRILLING MUD REPORT

Morgan Mud, Inc.

Toll Free Call  
0-308-345-1255 MUDD  
300-438-4041

P.O. Box 644  
McCook, Nebraska 69001  
Phone: (308) 345-1255

DRILLING MUD REPORT

REPORT NO. 10

DATE	7-15-2004	DEPTH	4730
API WELL NO.	15153208285E	STATE	KS
COUNTY	RAWLINS	WELL	8-15-36W
WELL	8-15-36W	STATE	KANSAS

OPERATOR	BEDEXO INC	CONTRACTOR	MURFIN DRILLING COMPANY	RIG NO.	3
ADDRESS	WICHITA KS	ADDRESS	COYNE KS	SPUD DATE	7-7-04
REPORT FOR MR.	WREATH	REPORT FOR MR.	VAN PELT	SECTION, TOWNSHIP, RANGE	8-15-36W
WELL NAME AND NO.	MOSER #2	FIELD	BERNARD	COUNTY	RAWLINS
OPERATION	DRILLING	CASING	8 5/8 in. at 320 Ft.	MUD VOLUME (BBL)	285 ± 280 ±

Present Activity	DRILLING	Bit Size (in.)	7 7/8	No.	2	Drill Pipe Size	4 1/2	Type	TH	Drill Collar Size	6 1/4	Length	486	Mud Type	CHEMICAL								
Intermediate		Production or Liner				In Storage																	
Circulation Data		Pump Size	5 1/2 x 14 in.	Annular Vel. (Ft./Min.)	120	Pump Make	NATIONAL	Opposite DP	222	Model	IC-380	Circulating Pressure psi	500	Bbl/Stroke	.124	Stroke/Min.	50	Bottoms Up (Min.)	39 ±	Bbl/Min	4.96	System Total (Min.)	119 ±

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES			EQUIPMENT		
	SIZE	HRS./TOUR	SIZE	HRS./TOUR	SIZE	HRS./TOUR
Time Sample Taken <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	6:10		Centrifuge		Premix	R19
Depth (ft)	4730		Degasser		FRAC	R19
Funnel Viscosity (sec/qt)	69		Desander		Other	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft.)	8.8		DAILY COST			
Mud Gradient (psi/ft)	.458		CUMULATIVE COST			
Hydrostatic Head (psi)	2164		MUD PROPERTIES SPECIFICATIONS			
L C M (ppb)	16		WEIGHT	90	VISCOSITY	48
600°/300°	58 139	1 1	BY AUTHORITY	<input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> OPERATOR'S REPRESENTATIVE	FILTRATE	8cc
Plastic Viscosity (cps)	19		TOUR TREATMENT			
Yield Point (lb/100 Sq. Ft.)	20		SUGGEST:			
"N" Value	.57		DANUTE MAX:			
"K" Value (lbs. sec. <sup>2</sup> /100 sq. ft.)	1.19		6 SOBA ASH			
Gel Strength (lb/100 sq/ft) 10 sec./10 min.	16/37		1 LIGNITE			
Filtrate A P I (ml/30 min.)	7.2		1/2 DRISPAK			
Cake Thickness (32nd in.) <input type="checkbox"/> API <input type="checkbox"/> HP-HT	2		MAINTAIN 14-20 ppb LCM			
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	9.5		IN SYSTEM TO T.A.			
Alkalinity, Mud (Pm)	.6		RUN 1/4 TO 1/2 INCH			
Alkalinity, Filtrate (PI/M)	2.16		STREAM OF WATER AND			
Chloride <input type="checkbox"/> Salt <input type="checkbox"/> ppm <input type="checkbox"/> Potassium Ion (% by Vol) <input type="checkbox"/>	1500		JET IF NEEDED TO MAINT.			
Calcium (ppm) <input type="checkbox"/> Byp (ppb) <input type="checkbox"/>	40		MUD WT 9.1 OR LESS!			
Sand Content (% by Vol.)	.25		ON TRIPS GO IN SLOW			
Solids Content (% by Vol.) <input type="checkbox"/> Calculated <input type="checkbox"/> Filtered <input type="checkbox"/>	3.75		KEEP HOLE FULL			
Oil Content (% by Vol.)	2.0					
Water Content (% by Vol.)	94.0					

MMI Engineer	DAVE LINES	Home Phone	345-7262	Mobile Phone	340-5946
Warehouse	McCook	Home Phone		Mobile Phone	
		Location		Phone	(308) 345-1255

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Amount Used by <input type="checkbox"/> Inventory <input type="checkbox"/> Day Log	Daily Cost	\$ 5467.-	Cumulative Cost	\$ 32079.-	"I am among you as one who serves" Lk. 22-27				
Products	Units	Cum. Units	Unit Cost	Cost	Remarks				
Gel	76	1136	7.25	551.-	ADDED 20 bbl at @ 431				
Lignite (Lenox)		7			LOSING DAD @ 4288'				
Caustic Soda		6			LOSING DAD @ 4505'				
Soda Ash		32							
Drispac		4							
Cottonseed Hulls	56	1100	11.-	616.-					
Cedar Fiber		175							
Lime		3							
DESCO									
Mud Seal	172	212	25.-	4300.-					
Li Dris		2							
					BIT INFORMATION				
					TYPE	JETS	DEV	DEPTH IN	DEPTH OUT
					F120	15		4215	



DRILLING MUD REPORT  
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DRILLING MUD REPORT REPORT NO. 11  
DATE 7-15 20 04 DEPTH 4950  
API WELL NO. 15153208 STATE KS COUNTY RAWLINS WELL 28 SE 1/4

OPERATOR **BEDEXCO INC** CONTRACTOR **MURKIN DRILLING COMPANY** RIG NO. **3**  
ADDRESS **WICHITA KS** ADDRESS **WICHITA KS** SPUD DATE **7-7-04**  
REPORT FOR MR. **WIMATH** REPORT FOR MR. **VAN PELT** SECTION, TOWNSHIP, RANGE **8-15-36W**  
WELL NAME AND NO. **MOSEA #12** FIELD **BERMOS** COUNTY **RAWLINS** STATE **KANSAS**

OPERATION **CIRCULATING** CASING **9 7/8** Surface in. at **320** Ft. MUD VOLUME (BBL) Hole Pits **298 300+** Pump Size **5 1/2 x 14** in. Annular Vel. (Ft./Min.) **122**  
Bit Size (in.) **7 7/8** No. **2** Intermediate in. at Ft. Total Circulating Volume **596** Pump Make **NATIONAL** Opposite DP. **222**  
Drill Pipe Size **4 1/2** Type **XH** Production or Liner in. at Ft. In Storage Bbl/Stroke **124** Stroke/Min. **50** Model **K-380** Opposite Collar **222**  
Drill Collar Size **6 1/4** Length **486** Mud Type **CHEMICAL** Bbl/Min. **4.96** Stroke/Min. **50** Circulating Pressure psi. **500**  
System Total (Min.) **121 1/2**

Sample from  Flowline  Pit MUD PROPERTIES EQUIPMENT  
Flowline Temperature °F SIZE HRS./TOUR SIZE HRS./TOUR  
Time Sample Taken  AM  PM 1:50 Centrifuge | | | | Premix **RIC** |  
Depth (ft.) 4950 Degasser | | | | FRAC | **RIC** |  
Funnel Viscosity (sec./gt.) 70 Desander | | | | Other | | | |  
Weight  (ppg)  (lb./cu. ft.) 8.8 DAILY COST CUMULATIVE COST  
Mud Gradient (psi/ft.) 1.458  
Hydrostatic Head (psi) 2265  
L C M (pph) 12  
600\*/300° 66145 1 1  
Plastic Viscosity (cps) 21  
Yield Point (lb./100 sq. ft.) 24  
"N" Value .55  
"K" Value (lbs. sec.<sup>2</sup>/100 sq. ft.) 1.5  
Gel Strength (lb./100 sq./ft.) 10 sec./10 min. 20148  
Filtrate API (mL/30 min.) 7.2  
Cake Thickness (32nd in.)  API  HP-HT 2  
pH  Strip  Meter 9.5  
Alkalinity, Mud (Pm) .5  
Alkalinity, Filtrate (PI/M) .217  
Chloride ppm  Salt ppm  Potassium Ion (% by Vol)  1400  
Calcium (ppm)  Gyp (ppb)  20  
Sand Content (% by Vol.) 1.25  
Solids Content (% by Vol.) Calculated  Retort  3.75  
Oil Content (% by Vol.) 2.0  
Water Content (% by Vol.) 94.0

**TREATMENT**  
AFTER SHORT - MIX TANK AND READY TO SPOT IN 1/2 HOUR PRIOR TO POOH FOR LOGS:  
4 SODA ASH  
1 LIGNITE  
1/2 DRISAC  
GET FOR VIS!  
ON TRIP S GO IN SLOW (KEEP HOPE FULL)

RESERVE PIT (Mudlogs 9:00am Calcium 9:00am)

MIMI Engineer **DAVE LINES** Home Phone **345-7262** Mobile Phone **340-5946**  
Warehouse **McCook** Location Phone **(308) 345-1255**

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Amount Used by  Inventory  Daily Log

Daily Cost **\$ 2408.-** Cumulative Cost **\$ 34487.-** "I am among you as one who serves" Lk. 22-27

Products	Units	Cum. Units	Unit Cost	Cost	Remarks
Gel	36	1172	7.25	261.-	<input type="checkbox"/> Drilling
Lignite (Lenox)	1	8	20.-	20.-	<input type="checkbox"/> Tight Hole
Caustic Soda	6	6			<input type="checkbox"/> Lost Returns
Soda Ash	6	38	22.-	132.-	<input type="checkbox"/> DST
Drisac	1	5	275.-	275.-	<input checked="" type="checkbox"/> TO @ 4950'
Cottonseed Hulls	20	1120	11.-	220.-	<input type="checkbox"/> Dak
Cedar Fiber		195			<input type="checkbox"/> C.H.
Lime		3			<input type="checkbox"/> Anhydrite
DESCO					BIT INFORMATION
Mud Seal	60	272	25.-	1500.-	TYPE <b>FR</b> JETS <b>15</b> DEV. <b></b> DEPTH IN <b>4215</b> DEPTH OUT <b>4950</b>
Mud Seal		25			
L.D.R.S		2			