

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 # 30458
Name: RJM Oil Company, Inc.
Address: P.O. Box 256
City/State/Zip: Clalfin, Kansas 67525
Purchaser: Coffeyville Resources
Operator Contact Person: Chris Hoffman
Phone: (620) 786-0644
Contractor: Name: Royal Drilling
License: 33905
Wellsite Geologist: Jim Musgrove

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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>01/26/2007</u>	<u>01/31/2007</u>	<u>02/01/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 009-25024-0000

County: Barton
454 SE NE NW EE-Dir
11N - C - 112 NW Sec. 8 Twp. 17 S. R. 11 East West

4730 feet from (S) N (circle one) Line of Section
4055 feet from (E) W (circle one) Line of Section

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

Field Name: Kraft-Prusa
Producing Formation: Arbuckle

Elevation: Ground: 1898' Kelly Bushing: 1903'
Total Depth: 3369' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at _____ Feet
Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan alt #1 KGR 6/21/07
(Data must be collected from the Reserve Pit)

Chloride content 55,000 ppm Fluid volume 400 bbls
Dewatering method used Allow to dry and backfill

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

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

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

Signature: Lawrence B. Mills
Title: President Date: 04/12/2007

Subscribed and sworn to before me this 13th day of April,
2007.

Notary Public: Bonnie Jeffrey **Bonnie Jeffrey**
State Of Kansas
Notary Public
Date Commission Expires: 9/20/2010

KCC Office Use ONLY

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

RECEIVED
KANSAS CORPORATION COMMISSION
APR 16 2007

Operator Name: RJM Oil Company, Inc. Lease Name: Wondra B Well #: 4
 Sec. 8 Twp. 17 S. R. 11 East West County: Barton

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	23	371	Common	200	2% gel
Production	7 7/8	5 1/2	15	3363	ASC	225	18% cat, 2% gel, 1%CD-31, 500 WSP

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 3/8	3346		

Date of First, Resumerd Production, SWD or Enhr. 02/17/2007	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
--	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	340.00		75.00		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

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APR 16 2007
CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., INC.

26519

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

SERVICE POINT:

M.B.

DATE <u>1-27-07</u>	SEC <u>8</u>	TWP <u>17</u>	RANGE <u>11 W</u>	CALLED OUT <u>8:30 am</u>	ON LOCATION <u>11:30 am</u>	JOB START <u>5:30 am</u>	JOB FINISH <u>6:00 am</u>
LEASE <u>Woodra</u>	WELL # <u>B-4</u>	LOCATION <u>Olden 2N21E S15</u>				COUNTY <u>Barton</u>	STATE <u>K.S.</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Rogol Rig 1

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 375 ft

CASING SIZE 5 1/2 DEPTH 375 ft

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 22 1/2 bbl

OWNER _____

CEMENT AMOUNT ORDERED 200 Common
3000 Rogol

EQUIPMENT

PUMP TRUCK # 170 CEMENTER Mike M.
HELPER Brandon R.

BULK TRUCK # 311 DRIVER Frank

BULK TRUCK # _____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

REMARKS:

circulate hole with Rig mud pump
mix cement + Release plug
Displace plug down with water
Cement did circulate
to surface

TOTAL

SERVICE

DEPTH OF JOB 375 ft

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

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APR 16 2007

TOTAL

CHARGE TO: R.J.M

STREET _____

CITY _____ STATE _____ ZIP _____

CONSERVATION DIVISION
WICHITA, KS
PLUG & FLOAT EQUIPMENT

Thank you
[Signature]

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

1-8 1/2 wooden plug @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

ALLIED CEMENTING CO., INC.

33002

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

SERVICE POINT:

Russell

DATE <u>1-31-07</u>	SEC <u>9</u>	TWP. <u>17</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION <u>9:00pm-</u>	JOB START <u>1:15am</u>	JOB FINISH <u>1:45am</u>
LEASE <u>Wond 0A</u>	WELL # <u>B-4</u>	LOCATION <u>Braver E - Stop Sign 3.5 2 1/4 E</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
<u>OLD</u> OR NEW (Circle one)				<u>S into</u>			

CONTRACTOR Royal Drilling
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3369'
 CASING SIZE 5 1/2 15 lb DEPTH 3363
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Packer-Shoe DEPTH 3363
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 20'
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 79 1/2

EQUIPMENT
 PUMP TRUCK CEMENTER Gray
 # 409 HELPER Adrian
 BULK TRUCK _____
 # 410 DRIVER Doug
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:

Pipe set @ 3363'
Pump WFR-2
POZ mix 200 sf. Displace 79 1/2 Bl.
Plus transfer 1500 PSI. (Hold-Release) - Dry!
Last Circulation 71 Bl.
15 sq. Rebar
10 sq. Mon. Schole
Thank S!

CHARGE TO: R. J. Oil Company
 STREET _____
 CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper to assist owner or

*Fixed
2-1-07*

OWNER _____

CEMENT
 AMOUNT ORDERED 225 69/40 180 lb Salt 290 lb
3/4 of 190 CD-31 2 Deformer
500 gal WFR-2

COMMON	<u>135</u>	@	<u>10.65</u>	<u>1437.75</u>
POZMIX	<u>90</u>	@	<u>5.80</u>	<u>522.00</u>
GEL	<u>4</u>	@	<u>16.65</u>	<u>66.60</u>
CHLORIDE		@		
ASC		@		
<u>WFR-2</u>	<u>500</u>	@	<u>1.00</u>	<u>500.00</u>
<u>Salt</u>	<u>84</u>	@	<u>7.75</u>	<u>652.00</u>
<u>Deformer</u>	<u>225</u>	@	<u>4.00</u>	<u>900.00</u>
<u>CD-31</u>	<u>143</u>	@	<u>7.50</u>	<u>1072.50</u>
HANDLING	<u>263</u>	@	<u>1.90</u>	<u>499.70</u>
MILEAGE	<u>94 1/2</u>	@	<u>7.50</u>	<u>705.00</u>
TOTAL				<u>6361.55</u>

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1610.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 30 @ 6.00 180.00
 MANIFOLD RECEIVED @ _____
 KANSAS CORPORATION COMMISSION @ _____

APR 16 2007

CONSERVATION DIVISION
WICHITA, KS

TOTAL 1790.00

PLUG & FLOAT EQUIPMENT

<u>1 5/2 Packer-Shoe</u>			<u>1325.00</u>
<u>1 Latch Down Assembly</u>	@		<u>375.00</u>
<u>8 Centralizers</u>	@	<u>50.00</u>	<u>400.00</u>
	@		
	@		

OPERATOR RJM Oil CONTRACTOR Royal Digs RIG NO. 1
 ADDRESS CO ADDRESS Rig SPUD DATE
 REPORT FOR MR. Jim M. REPORT FOR MR. Doug B. SECTION, TOWNSHIP, RANGE
 WELL NAME AND NO. FIELD OR BLOCK NO. COUNTY AREA STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>12 1/4, 7 7/8</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 3/8"</u>	@ Ft.	Hole	Pits	Pump Size x in. <u>6 14</u>	Annular Vel (Ft/Min) DP <u>197 DC 356</u>	
Drill Pipe Size <u>4 1/2</u>	Type <u>XH</u>	Length	Intermediate @	Ft.	Total Circulating Volume		Pump Make, Model <u>90</u>	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800</u>
Drill Collar Size <u>6 1/4</u>	Length	No. Pits	Production or Liner @	Ft.	Mud Up Depth		Bbl/Stroke <u>139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.)
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity	Mud Type <u>Chemical Pac</u>		Bbl/Min. <u>8</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.)		
Last Bit No.					Elevation				

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

Mud Used:
If tight connections
sweep hole.
(19-gel - 1-soda ash)

Daily Cost Cumulative Cost

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>as needed</u>	FILTRATE <u>NC</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER

- RECOMMENDED TREATMENT**
- Under Surface control wt.
 - 9.5 or less. Run plenty
 - of water & Jet often.
 -
 - Displace at Geologist Request
 -
 - "Fill Frac Full"

REMARKS:
Thank you
Keep hole full
Premix: 100 bbls fresh water
mix: 21-gel
2-soda ash
1-caustic
1-lignite
1/4-sack of Drispac
2-Hulls
Have premix plus #2 pit full
of mud when ready to Displace.
Call when ready to Displace



DRILLING MUD REPORT REPORT NO. 1

DATE 1-25 20 07 DEPTH _____
 APT. STATE COUNTY WELL S/T
 WELL NO. _____

OPERATOR RJM Oil CONTRACTOR Royal Digs RIG NO. 1
 ADDRESS CO ADDRESS Rig SPUD DATE _____
 REPORT FOR MR. Jim M. REPORT FOR MR. Doug B. SECTION, TOWNSHIP, RANGE _____
 WELL NAME AND NO. _____ FIELD OR BLOCK NO. _____ COUNTY AREA _____ STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>1 1/4, 7/8</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 1/8"</u>	Ft.	Hole	Pits	Pump Size x in. <u>6 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>	
Drill Pipe Size <u>4 1/2</u>	Type <u>Xh</u>	Length	Intermediate <u>@</u>	Ft.	Total Circulating Volume		Pump Make, Model	Assumed Eff. <u>70</u>	Circulation Pressure (PSI) <u>800</u>
Drill Collar Size <u>6 1/4</u>	Length	No. Pits	Production or Liner <u>@</u>	Ft.	Mud Up Depth		Bbl/Stroke <u>139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.)
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>Chemical Pac</u>		Mud Type	Bbl/Min. <u>8</u>	Gal/Min. <u>330</u>	Total Circ Time (Min.)		
Last Bit No.					Elevation				

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

Mud Used:
It tight connections
sweep hole.
(19-gel / 1 soda ash)

Daily Cost _____ Cumulative Cost _____

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.5- VISCOSITY as needed FILTRATE NC

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

RECOMMENDED TREATMENT

Under surface control wt.
 9.5 or less. Run plenty
 of water & Jet often.

 Displace at Geologist Request

 "Fill Frac Fill"

REMARKS:
Thank you
Keep notes for 11
Have premix plus #2 pit full of mud when ready to Displace.
Call when ready to Displace

Premix: 100 Bbls fresh water
 mix: 21-gel
 2-soda ash
 1-caustic
 1-lignite
 1/4-sack of Dispac
 2-Halk

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 CONSERVATION DIVISION
 WICHITA-KS

ENGINEER Rick Worth WAREHOUSE LOCATION 625-3531 TELEPHONE _____

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.



DRILLING MUD REPORT

REPORT NO. **2**

DATE **1-29-07** DEPTH **2721**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR RJM Oil	CONTRACTOR Royal	RIG NO. 1
ADDRESS CO	ADDRESS Rig	SPUD DATE 1-26-07
REPORT FOR MR. Jim M.	REPORT FOR MR. Doug B.	SECTION, TOWNSHIP, RANGE 8-17-11
WELL NAME AND NO. Wondra #B-4	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size 7 7/8	No. Bits 2	Jet Size 3/14	Surface 8 5/8" @ 371	Ft.	Hole Pits 222 260	Pump Size x in. 6 x 14	Annular Vel (Ft/Min) DP 1977 DC 356		
Drill Pipe Size 4 1/2	Type X4	Length	Intermediate @	Ft.	Total Circulating Volume 480	Pump Make, Model	Assumed Eff. 70	Circulation Pressure (PSI) 800	
Drill Collar Size 6 1/4	Length	No. Pits 3	Production or Liner @	Ft.	Mud Up Depth	Bbl/Stroke 139	Stroke/Min. 60	Bottoms Up (Min.) 28+	
Bit RPM 60	Weight on Bit 30,000	Mud Type Chemical Pac			Bbl/Min. 8	Gal/Min. 330	Total Circ Time (Min.) 61+		
Last Bit No.	Present Activity Drill				Elevation Gr 1858				

Sample from <input checked="" type="checkbox"/> Flowline () Pit	MUD PROPERTIES	
Flowing Temperature	F	
Time Sample Taken	3:15	P.M.
Depth (ft.)	2721	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.7	
Mud Gradient (psi/ft.)	4.63	
Funnel Viscosity (sec./qt.) API at °F	55	
Plastic Viscosity cp at °F	19	
Yield Point (lb./100 sq. ft.)	14	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	4124	1 1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	10.5	
Filtrate API (ml./30 min.)	8.8	
API HP-HT Filtrate (ml./30 min.) °F		
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	1/32	
Alkalinity, Mud (Pm)	3.4	
Alkalinity, Filtrate (Pf / Mf)	131	1 1
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	1500	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	tr.	
Sand Content (% by Vol.)	tr.	
Solids Content (% by Vol.)	2.5	1
Oil Content (% by Vol.)		
Water Content (% by Vol.)	97.5	
LCM, #/bbl	1/2#	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent)		

Mud Used:	
140-Gel	1470.00
38-Halls	731.50
13-Soda ash	2531.60
6-Caustic	794.00
6-Lignite	119.70
1-Lime	28.75
2-Drispac	585.60
Daily Cost	13463.05
Cumulative Cost	13463.05

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.5-	VISCOSITY 148+	FILTRATE 10cc
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT**
- 48+ U.S. / Gel**
 - 1/2# LCM**
 - LCM is needed**
 - wt 9.5 or less run at 1/2"**
 - stream of water at**
 - flowline**

REMARKS: **"Thank you"**

Reserve Pit
Chlorides - 55,000
Calcium - 1600
Volume - 400

Short trip prior to DST Log
Circulate hole clean

(add premix to system to gain volume)

(Good Displacement!)

Keep hole full

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CONSERVATION DIVISION
WICHITA, KS

ANDY'S "Mud Doctor"

MUD & CHEMICAL CO.

(785) 625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 2

DATE 1-29-07 DEPTH 2721

APT. WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>RJM Oil</u>	CONTRACTOR <u>Royal</u>	RIG NO. <u>1</u>
ADDRESS <u>CO</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>1-26-07</u>
REPORT FOR MR. <u>Jim M.</u>	REPORT FOR MR. <u>Doug B.</u>	SECTION, TOWNSHIP, RANGE <u>8-17-11</u>
WELL NAME AND NO. <u>Wondra #B-4</u>	FIELD OR BLOCK NO. <u>34</u>	COUNTY AREA <u>Barton</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 5/8" @ 371</u>	Hole <u>222</u>	Pits <u>260</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>177</u>	DC <u>356</u>	
Drill Pipe Size <u>4 1/2</u>	Type <u>X4</u>	Length	Intermediate @	Total Circulating Volume <u>480</u>		Pump Make, Model	Assumed Eff. <u>70</u>	Circulation Pressure (PSI) <u>800</u>	
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner @	Mud Up Depth		Bbl/Stroke <u>139.60</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>28+</u>	
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>Drill</u>		Mud Type <u>Chemical Pac</u>		Bbl/Min <u>8</u>	Gal/Min <u>336</u>	Total Circ Time (Min.) <u>61+</u>	
Last Bit No.						Elevation <u>Or 1858</u>			

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>3:15 P.M.</u>		
Depth (ft.)	<u>2721</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>8.7</u>		
Mud Gradient (psi/ft.)	<u>4.63</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>55</u>		
Plastic Viscosity cp at °F	<u>19</u>		
Yield Point (lb./100 sq. ft.)	<u>14</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>4124</u>	<u>1</u>	<u>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>		
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/32</u>		
Alkalinity, Mud (Pm)	<u>3.4</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>131</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>1500</u>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>tr.</u>		
Sand Content (% by Vol.)	<u>tr.</u>		
Solids Content (% by Vol.)	<u>2.5</u>		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	<u>97.5</u>		
LCM, #/bbl	<u>1/2#</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent)			

Mud Used:	
<u>140-Gel</u>	<u>1470.00</u>
<u>38-Halls</u>	<u>781.50</u>
<u>13-Soda ash</u>	<u>253.50</u>
<u>6-Caustic</u>	<u>294.00</u>
<u>6-Lignite</u>	<u>117.70</u>
<u>1-Lime</u>	<u>28.75</u>
<u>2-Dristac</u>	<u>385.60</u>
Daily Cost <u>13463.05</u>	Cumulative Cost <u>13463.05</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>148+</u>	FILTRATE <u>10cc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OTHER		
RECOMMENDED TREATMENT		
<input type="checkbox"/> <u>48+ U.S. / bbl</u>		
<input type="checkbox"/> <u>1140</u>		
<input type="checkbox"/> <u>6cm ris needed</u>		
<input type="checkbox"/> <u>wt 9.5 or less run a 1/2"</u>		
<input type="checkbox"/> <u>stream of water at</u>		
<input type="checkbox"/> <u>flowline</u>		

REMARKS: Thank you
Reserve Pit
Chlorides - 55,000
Calcium - 1600
Volume - 400
Short trip prior to DST Log
Circulate hole clean

(add premix to system to gain volume)
(Good Displacement!)

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KANSAS CORPORATION COMMISSION
APR 10 2007
CONSERVATION DIVISION
WICHITA, KS

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Rick Wertz WAREHOUSE LOCATION 625-3531 TELEPHONE

Keep hole full



DATE **1-30** 20 **07** DEPTH **3204**

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR RJM Oil	CONTRACTOR Royal	RIG NO. 1
ADDRESS CO	ADDRESS Rig	SPUD DATE 1-26-07
REPORT FOR MR. Jim M.	REPORT FOR MR. Doug B.	SECTION, TOWNSHIP, RANGE 8-17-11
WELL NAME AND NO. Wondra # B-4	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE KS

Drilling Assembly			Casing	Mud Volume (BBL)		Circulation Data		
Bit Size 7 7/8	No. Bits 2	Jet Size 3/14	Surface 8 3/8' 371 Ft.	Hole 252	Pits 290	Pump Size x in. 6 x 14	Annular Vel (Ft/Min) DP 197	DC 356
Drill Pipe Size 4 1/2	Type XH	Length	Intermediate @	Total Circulating Volume 342		Pump Make, Model	Assumed Eff. 70	Circulation Pressure (PSI) 800+
Drill Collar Size 6 1/4	Length	No. Pits 3	Production or Liner @	Mud Up Depth		Bbl/Stroke 137	Stroke/Min. 60	Bottoms Up (Min.) 32+
Bit RPM 60	Weight on Bit 39000	Mud Type Chemical Pac		Bbl/Min. 8	Gal/Min. 336	Total Circ Time (Min.) 68+		
Last Bit No.	Present Activity Drig	Mud Type PAC		Elevation Gr 1858				

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	10:20 A.M.		
Depth (ft.)	3204		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	9.1		
Mud Gradient (psi/ft.)	0.474		
Funnel Viscosity (sec./qt.) API at °F	51		
Plastic Viscosity cp at / °F	19		
Yield Point (lb./100 sq. ft.)	14		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	3116	1	1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	10.5		
Filtrate API (ml/30 min.)	8.8		
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	1/32		
Alkalinity, Mud (Pm)	2.4		
Alkalinity, Filtrate (Pf / Mf)	6.61	1	1
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm	2500		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	10		
Sand Content (% by Vol.)	70		
Solids Content (% by Vol.)	5.5		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	94.5		
LCM, #/bbl	1/8 #		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:

Daily Cost **-0-** Cumulative Cost **\$3,463.05**

MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.5-	VISCOSITY 148+	FILTRATE 10cc
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT**
- 48+ Vis/Gel
 - LCM as Needed
 - WT > 9.5 or less run a 1/2" stream of water out
 - flowline

REMARKS:

Thank you !!

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Short trip prior to DST to circulate hole clear

add Premix to system to elevate chem Prof. maintain good mud for log

(When drlg lower Arb. mix 15-Hulls to help prevent loss circ.)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Rud Werth	WAREHOUSE LOCATION 625-3531	TELEPHONE
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DRILLING MUD REPORT REPORT NO. **3**

DATE **1-30** 20 **07** DEPTH **3204**

APT. WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR RJM Oil	CONTRACTOR Royal	RIG NO. 1
ADDRESS CO	ADDRESS Rig	SPUD DATE 1-26-07
REPORT FOR MR. Jim M.	REPORT FOR MR. Doug B.	SECTION, TOWNSHIP, RANGE 8-17-11
WELL NAME AND NO. Wondra # B-4	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE KS

Drilling Assembly			Casing	Mud Volume (BBL)		Circulation Data		
Bit Size 7/8	No. Bits 2	Jet Size 3/14	Surface 8 3/8 Ft.	Hole 252	Pits 290	Pump Size x in. 6 x 14	Annular Vel (Ft/Min) DC 197	356
Drill Pipe Size 4 1/2	Type XH	Length	Intermediate @ Ft.	Total Circulating Volume 542		Pump Make, Model	Assumed Eff. 72	Circulation Pressure (PSI) 800+
Drill Collar Size 6 1/4	Length	No. Pits 3	Production or Liner @ Ft.	Mud Up Depth		Bbl/Stroke 1.57	Stroke/Min. 60	Bottoms Up (Min.) 32+
Bit RPM 60	Weight on Bit 30000	Chemical PAC		Bbl/Min. 8	Gal/Min. 336	Total Circ Time (Min.) 68+		
Last Bit No.	Present Activity Drig	Mud Type PAC	Elevation Gr 1858					

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken		10:20 A.M.	
Depth (ft.)		3204	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		9.1	
Mud Gradient (psi/ft.)		0.474	
Funnel Viscosity (sec./qt.) API at °F		51	
Plastic Viscosity cp at / °F		19	
Yield Point (lb./100 sq. ft.)		14	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		3116	1 1
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		10.5	
Filtrate API (ml./30 min.)		8.8	
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>		1/32	
Alkalinity, Mud (Pm)		3.4	
Alkalinity, Filtrate (PI / Mf)		0.61	1 1
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm		2500	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		10	
Sand Content (% by Vol.)		1%	
Solids Content (% by Vol.)		5.5	
Oil Content (% by Vol.)			
Water Content (% by Vol.)		94.5	
LCM, #/bbl		18#	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)			

Mud Used:	
Daily Cost	-0-
Cumulative Cost	13463.05

MUD PROPERTIES SPECIFICATIONS		
WEIGHT	9.5-	VISCOSITY 48+
FILTRATE	10cc	
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

RECOMMENDED TREATMENT	
<input type="checkbox"/>	48+ vis/gel
<input type="checkbox"/>	10cc
<input type="checkbox"/>	LCM as needed
<input type="checkbox"/>	WT > 9.5 or less run a 1/2"
<input type="checkbox"/>	stream of water at

REMARKS:
Thank you!!
Short trip prior to DST, Log
Circulate hole clean
Keep hole full
(When drig lower Arb. mix 15- Halls to help prevent loss circ.)

APR 16 2007
 CONSERVATION DIVISION
 WICHITA, KS

Premix: 100 Halls fresh water
 mix: 50+ vis/gel
 5- soda ash
 2- Caustic
 2- Lignite
 1/2- sack of DrisPAC
 4- Halls

add Premix to system to elevate chem Prof. maintain good mud for log



DATE 1-31-07 DEPTH 3369

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>RJM Oil</u>	CONTRACTOR <u>Royal</u>	RIG NO. <u>1</u>
ADDRESS <u>CD</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>1-26-07</u>
REPORT FOR MR. <u>Jim M.</u>	REPORT FOR MR. <u>Doug B.</u>	SECTION, TOWNSHIP, RANGE <u>8-17-11</u>
WELL NAME AND NO. <u>Wondra # B-4</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Barton</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 3/8" @ 371 Ft.</u>	Hole <u>263</u>	Pits <u>300</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>		
Drill Pipe Size <u>4 1/2</u>	Type <u>Xh</u>	Length	Intermediate <u>@</u>	Total Circulating Volume <u>563</u>		Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800</u>	
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner <u>@</u>	Mud Up Depth		Bbl/Stroke <u>1.39</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>33+</u>	
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>DST</u>	Mud Type <u>Chemical Pac</u>	Bbl/Min. <u>8</u>	Gal/Min. <u>336</u>	Elevation <u>1858</u>	Total Circ Time (Min.) <u>71+</u>		

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>10:45 A.M.</u>		
Depth (ft.)	<u>3369</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.4</u>		
Mud Gradient (psi/ft.)	<u>0.489</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>54</u>		
Plastic Viscosity cp at / °F	<u>18</u>		
Yield Point (lb./100 sq. ft.)	<u>14</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>3115</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>10</u>		
Filtrate API (ml./30 min.)	<u>9.4</u>		
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>	<u>1/32</u>	<u>1</u>	<u>1</u>
Alkalinity, Mud (Pm)	<u>1.8</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>0.41</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	<u>4000</u>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>15</u>		
Sand Content (% by Vol.)	<u>17</u>		
Solids Content (% by Vol.)	<u>16.5</u>		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	<u>92.5</u>		
LCM, #/bbl	<u>1/8th</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:	
Daily Cost	<u>-0</u>
Cumulative Cost	<u>\$3,463.05</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>50+ vis/6el</u>	FILTRATE <u>10cc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
RECOMMENDED TREATMENT		
<input type="checkbox"/> 50+ vis/6el for log		
<input type="checkbox"/> Lcm as needed		
<input type="checkbox"/> wt 9.5 or less run a 1/2"		
<input type="checkbox"/> stream of water		
<input type="checkbox"/> at flowline		

REMARKS:
 "Thank you" When drly lower Arb.
 RECEIVED KANSAS CORPORATION COMMISSION 20-Halls
 Short trip prior to DST, Log 2 - Soda ash
 Circulates hole clean. 1 - Caustic
1 - Lignite
50+ vis/6el
 (Keep hole full) (add premix to system to help prevent loss circ.)