

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ 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

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

### Operation:

Uploading recovery & pressures

### DATE

April  
**23**  
2019

DST #1 Formation: Lans A-D Test Interval: 3066 - 3130' Total Depth: 3130'

Time On: 03:01 04/23 Time Off: 10:34 04/23  
Time On Bottom: 05:47 04/23 Time Off Bottom: 08:17 04/23

Electronic Volume Estimate:

59'

### 1st Open

Minutes: 45

Current Reading:

1.9" at 45 min

Max Reading: 1.9"

### 1st Close

Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

### 2nd Open

Minutes: 30

Current Reading:

.7" at 30 min

Max Reading: .7"

### 2nd Close

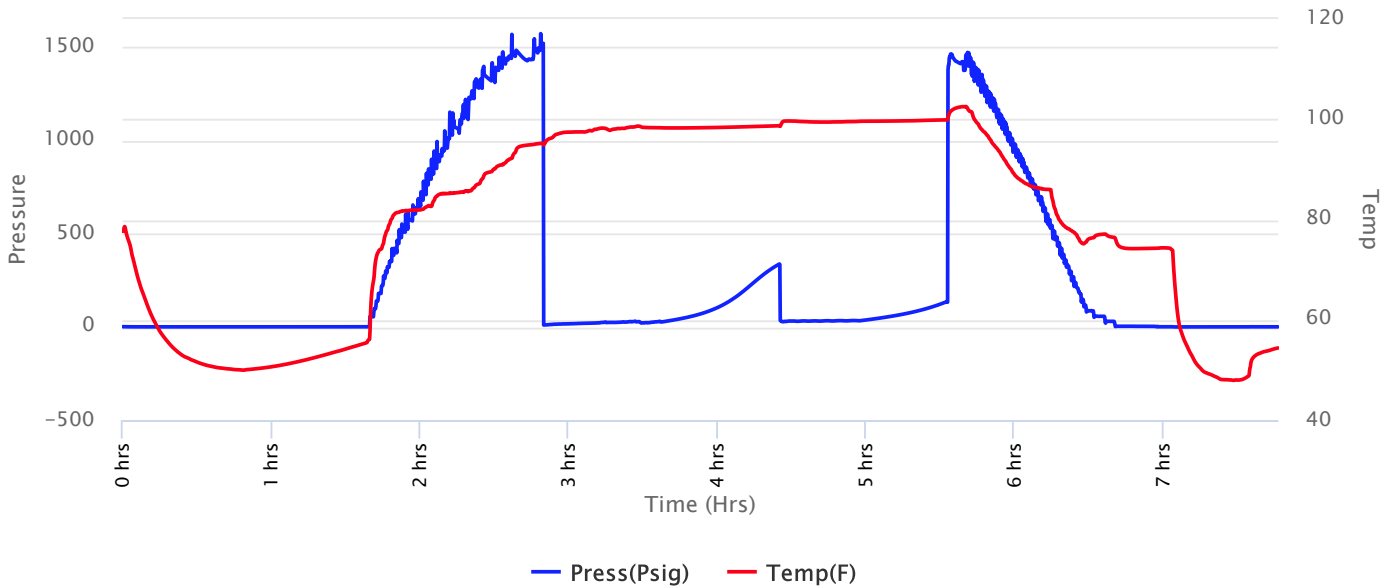
Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

Inside Recorder





**Company: RJM Oil Company, Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1894 GL  
 Field Name: Beaver South  
 Pool: Infield  
 Job Number: 327

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**23**  
 2019

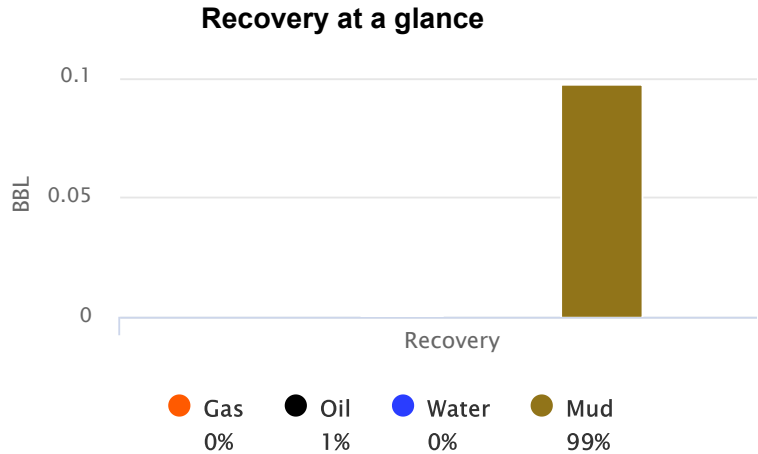
**DST #1**    **Formation: Lans A-D**    **Test Interval: 3066 - 3130'**    **Total Depth: 3130'**  
 Time On: 03:01 04/23    Time Off: 10:34 04/23  
 Time On Bottom: 05:47 04/23    Time Off Bottom: 08:17 04/23

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.0984	SLOCM	0	1	0	99

Total Recovered: 20 ft  
 Total Barrels Recovered: 0.0984

Reversed Out  
 NO

Initial Hydrostatic Pressure	1468	PSI
Initial Flow	10 to 27	PSI
<b>Initial Closed in Pressure</b>	<b>337</b>	<b>PSI</b>
Final Flow Pressure	28 to 33	PSI
<b>Final Closed in Pressure</b>	<b>136</b>	<b>PSI</b>
Final Hydrostatic Pressure	1471	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	59.7	%



GIP cubic foot volume: 0



**Company: RJM Oil Company,  
Inc  
Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**23**  
2019

**DST #1      Formation: Lans A-D      Test Interval: 3066 -      Total Depth: 3130'**  
**3130'**  
Time On: 03:01 04/23      Time Off: 10:34 04/23  
Time On Bottom: 05:47 04/23      Time Off Bottom: 08:17 04/23

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow. Built to 2 inches in 45 mins  
1st Close: NOBB  
2nd Open: WSB. Built to 3/4 inch in 30 mins  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**23**  
2019

**DST #1      Formation: Lans A-D      Test Interval: 3066 - 3130'      Total Depth: 3130'**  
Time On: 03:01 04/23      Time Off: 10:34 04/23  
Time On Bottom: 05:47 04/23      Time Off Bottom: 08:17 04/23

### Down Hole Makeup

<b>Heads Up:</b> 19.86 FT	<b>Packer 1:</b> 3060.2 FT
<b>Drill Pipe:</b> 2944.96 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3065.7 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3052.2 FT
<b>Collars:</b> 114.94 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3104 FT
<b>Test Tool:</b> 26.66 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 64.3	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 31.80 FT  
*ID-3 1/2*

**Change Over:** 1 FT

**Perforations: (below):** 27 FT  
*4 1/2-FH*



**Company: RJM Oil Company,  
Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**23**  
2019

**DST #1      Formation: Lans A-D      Test Interval: 3066 -      Total Depth: 3130'**  
**3130'**  
Time On: 03:01 04/23      Time Off: 10:34 04/23  
Time On Bottom: 05:47 04/23      Time Off Bottom: 08:17 04/23

**Mud Properties**

**Mud Type:** Chem

**Weight:** 8.6

**Viscosity:** 57

**Filtrate:** 8

**Chlorides:** 1800 ppm





**Company: RJM Oil Company,  
Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**23**  
2019

**DST #1      Formation: Lans A-D      Test Interval: 3066 -      Total Depth: 3130'**  
**3130'**  
Time On: 03:01 04/23      Time Off: 10:34 04/23  
Time On Bottom: 05:47 04/23      Time Off Bottom: 08:17 04/23

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**23**  
2019

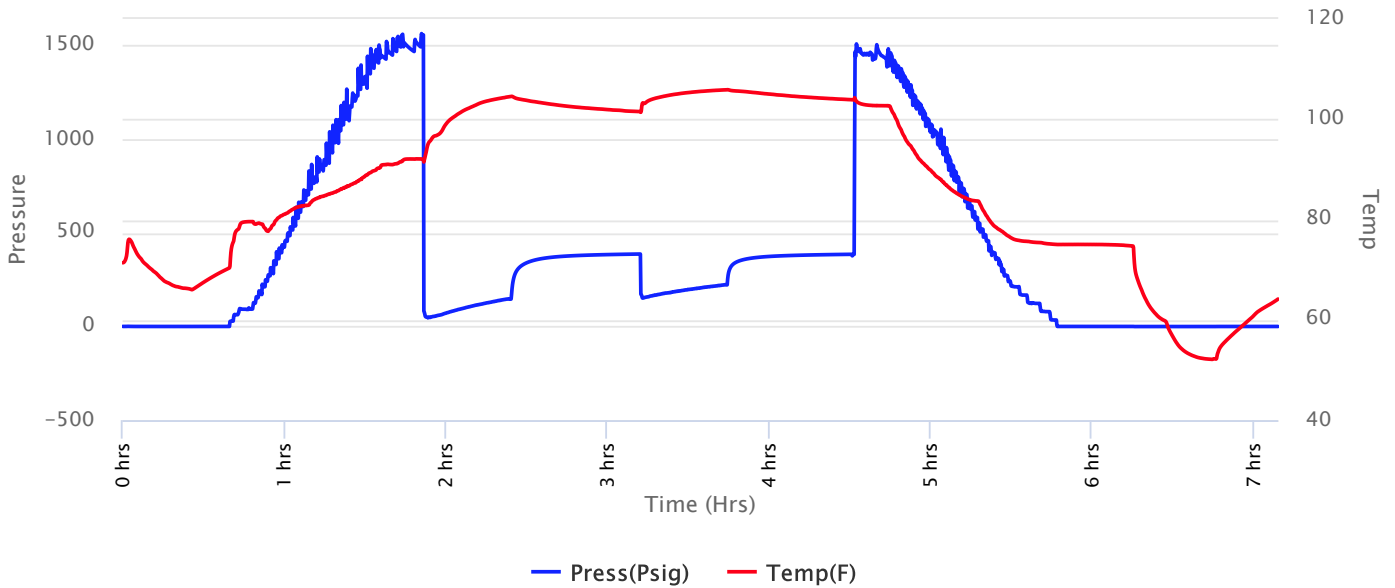
**DST #2**    **Formation: Lans E-F**    **Test Interval: 3127 - 3155'**    **Total Depth: 3155'**

Time On: 17:00 04/23    Time Off: 23:56 04/23  
Time On Bottom: 18:48 04/23    Time Off Bottom: 21:18 04/23

Electronic Volume Estimate:  
1828'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 30	Minutes: 45	Minutes: 30	Minutes: 45
Current Reading: 144.5" at 30 min	Current Reading: 14.8" at 45 min	Current Reading: 99.4" at 30 min	Current Reading: 19.5" at 45 min
Max Reading: 144.5"	Max Reading: 14.8"	Max Reading: 99.4"	Max Reading: 19.5"

Inside Recorder





**Company: RJM Oil Company, Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1894 GL  
 Field Name: Beaver South  
 Pool: Infield  
 Job Number: 327

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**23**  
 2019

**DST #2 Formation: Lans E-F Test Interval: 3127 - 3155' Total Depth: 3155'**  
 Time On: 17:00 04/23 Time Off: 23:56 04/23  
 Time On Bottom: 18:48 04/23 Time Off Bottom: 21:18 04/23

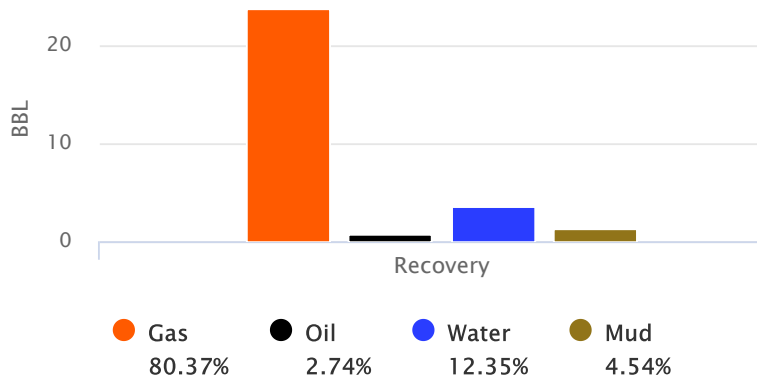
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1616	22.99568	G	100	0	0	0
148	2.10604	SLWCGCHOCM	20	30	10	40
126	1.79298	SLOGCMCW	20	10	45	25
189	2.68947	SLMCW	0	0	98	2

Total Recovered: 2079 ft  
 Total Barrels Recovered: 29.58417

Reversed Out  
 NO

Initial Hydrostatic Pressure	1469	PSI
Initial Flow	47 to 147	PSI
<b>Initial Closed in Pressure</b>	<b>387</b>	<b>PSI</b>
Final Flow Pressure	152 to 223	PSI
<b>Final Closed in Pressure</b>	<b>385</b>	<b>PSI</b>
Final Hydrostatic Pressure	1468	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	0.5	%

**Recovery at a glance**



GIP cubic foot volume: 133.48745



**Company: RJM Oil Company,  
Inc  
Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**23**  
2019

**DST #2      Formation: Lans E-F      Test Interval: 3127 -      Total Depth: 3155'**  
**3155'**

Time On: 17:00 04/23      Time Off: 23:56 04/23  
Time On Bottom: 18:48 04/23      Time Off Bottom: 21:18 04/23

**BUCKET MEASUREMENT:**

1st Open: 1" Blow. BOB in 45 Secs  
1st Close: Bottom Bucket Blow Back  
2nd Open: 2 1/2" Blow. BOB in 4 mins  
2nd Close: Bottom Bucket Blow Back

**REMARKS:**

Tool Sample: 0% Gas 3% Oil 96% Water 1% Mud

Ph: 7

Measured RW: .42 @ 52 degrees °F

RW at Formation Temp: 0.219 @ 106 °F

Chlorides: 68,000 ppm



# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
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**23**  
2019

**DST #2      Formation: Lans E-F      Test Interval: 3127 - 3155'      Total Depth: 3155'**  
Time On: 17:00 04/23      Time Off: 23:56 04/23  
Time On Bottom: 18:48 04/23      Time Off Bottom: 21:18 04/23

### Down Hole Makeup

<b>Heads Up:</b> 32.19 FT	<b>Packer 1:</b> 3122 FT
<b>Drill Pipe:</b> 3134.03 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3127 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3114 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3129 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 28	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 0 FT  
*4 1/2-FH*

**Change Over:** 0 FT

**Drill Pipe: (in anchor):** 0 FT  
*ID-3 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 27 FT  
*4 1/2-FH*



**Company: RJM Oil Company,  
Inc**

**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**23**  
2019

**DST #2      Formation: Lans E-F      Test Interval: 3127 -      Total Depth: 3155'**  
**3155'**  
Time On: 17:00 04/23      Time Off: 23:56 04/23  
Time On Bottom: 18:48 04/23      Time Off Bottom: 21:18 04/23

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.1

**Viscosity:** 55

**Filtrate:** 8

**Chlorides:** 5000 ppm



**Company: RJM Oil Company,  
Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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**23**  
2019

**DST #2    Formation: Lans E-F    Test Interval: 3127 -    Total Depth: 3155'**  
**3155'**  
Time On: 17:00 04/23    Time Off: 23:56 04/23  
Time On Bottom: 18:48 04/23    Time Off Bottom: 21:18 04/23

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------







# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**24**  
2019

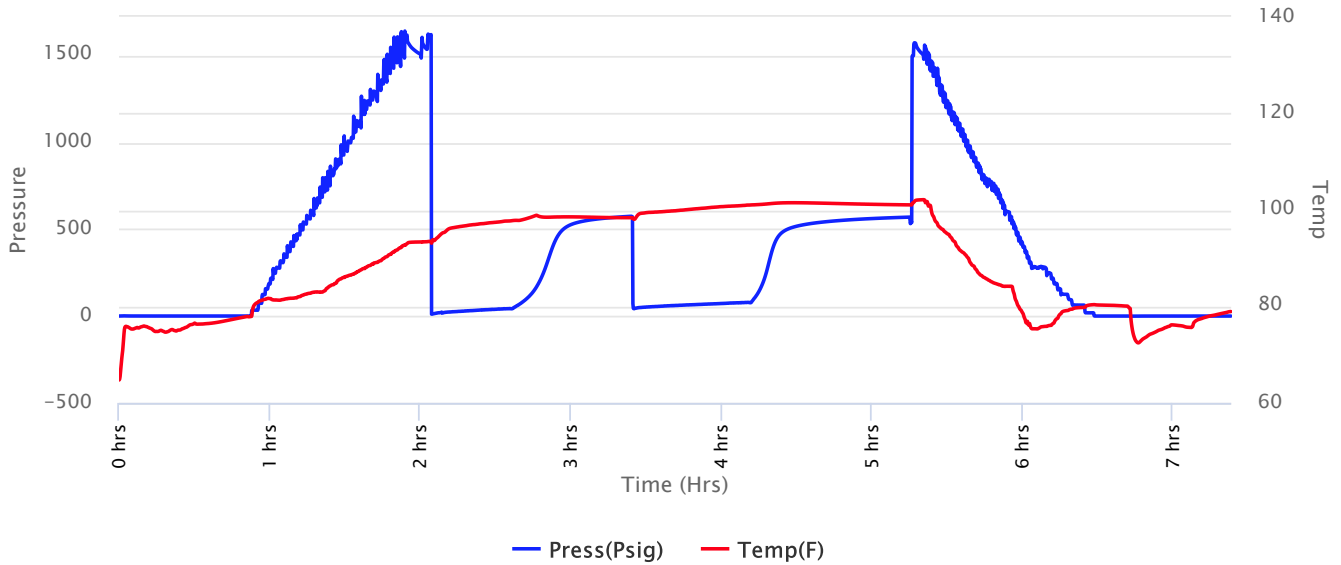
**DST #3**    **Formation: Lans H-J**    **Test Interval: 3198 - 3270'**    **Total Depth: 3270'**

Time On: 10:27 04/24    Time Off: 17:37 04/24  
Time On Bottom: 12:29 04/24    Time Off Bottom: 15:29 04/24

Electronic Volume Estimate:  
913'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 41.6" at 30 min	Current Reading: 0" at 45 min	Current Reading: 74.6" at 45 min	Current Reading: .5" at 60 min
Max Reading: 41.6"	Max Reading: 0"	Max Reading: 74.6"	Max Reading: .5"

Inside Recorder





**Company: RJM Oil Company, Inc**

**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1894 GL  
 Field Name: Beaver South  
 Pool: Infield  
 Job Number: 327

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**24**  
 2019

**DST #3 Formation: Lans H-J Test Interval: 3198 - 3270' Total Depth: 3270'**  
 Time On: 10:27 04/24 Time Off: 17:37 04/24  
 Time On Bottom: 12:29 04/24 Time Off Bottom: 15:29 04/24

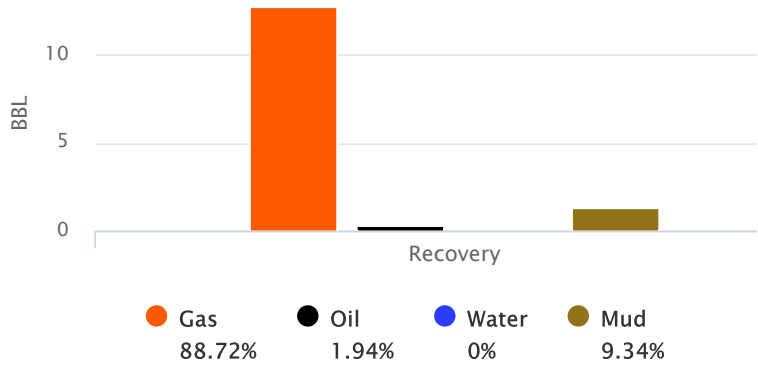
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
850	12.0955	G	100	0	0	0
31	0.44113	SLOCSLGCM	10	2	0	88
126	1.79298	SLOCHGCM	32	15	0	53

Total Recovered: 1007 ft  
 Total Barrels Recovered: 14.32961

Reversed Out  
 NO

Initial Hydrostatic Pressure	1509	PSI
Initial Flow	12 to 43	PSI
<b>Initial Closed in Pressure</b>	<b>576</b>	<b>PSI</b>
Final Flow Pressure	45 to 77	PSI
<b>Final Closed in Pressure</b>	<b>571</b>	<b>PSI</b>
Final Hydrostatic Pressure	1509	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.9	%

**Recovery at a glance**



GIP cubic foot volume: 71.3792



**Company: RJM Oil Company,  
Inc**

**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**24**  
2019

**DST #3      Formation: Lans H-J      Test Interval: 3198 -      Total Depth: 3270'**  
**3270'**  
Time On: 10:27 04/24      Time Off: 17:37 04/24  
Time On Bottom: 12:29 04/24      Time Off Bottom: 15:29 04/24

**BUCKET MEASUREMENT:**

1st Open: 1/4 Blow. BOB in 8 3/4 mins  
1st Close: NOBB  
2nd Open: 6" Blow. BOB in 1 min  
2nd Close: 1/2" Blow Back

**REMARKS:**

Mud in Grind Outs were heavy oil spec'd  
Tool Sample: 0% Gas 45% Oil 0% Water 55% Mud



# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**24**  
2019

**DST #3      Formation: Lans H-J      Test Interval: 3198 - 3270'      Total Depth: 3270'**  
Time On: 10:27 04/24      Time Off: 17:37 04/24  
Time On Bottom: 12:29 04/24      Time Off Bottom: 15:29 04/24

### Down Hole Makeup

<b>Heads Up:</b> 24.79 FT	<b>Packer 1:</b> 3193.18 FT
<b>Drill Pipe:</b> 3197.81 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3198.18 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3185.18 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3235 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 71.82	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.82 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 36 FT <i>4 1/2-FH</i>	



**Company: RJM Oil Company,  
Inc**

**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**24**  
2019

**DST #3      Formation: Lans H-J      Test Interval: 3198 -      Total Depth: 3270'**  
**3270'**  
Time On: 10:27 04/24      Time Off: 17:37 04/24  
Time On Bottom: 12:29 04/24      Time Off Bottom: 15:29 04/24

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.1      **Viscosity:** 50      **Filtrate:** 8.8      **Chlorides:** 5000 ppm



# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**24**  
2019

**DST #3    Formation: Lans H-J    Test Interval: 3198 - 3270'    Total Depth: 3270'**  
Time On: 10:27 04/24    Time Off: 17:37 04/24  
Time On Bottom: 12:29 04/24    Time Off Bottom: 15:29 04/24

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
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# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**25**  
2019

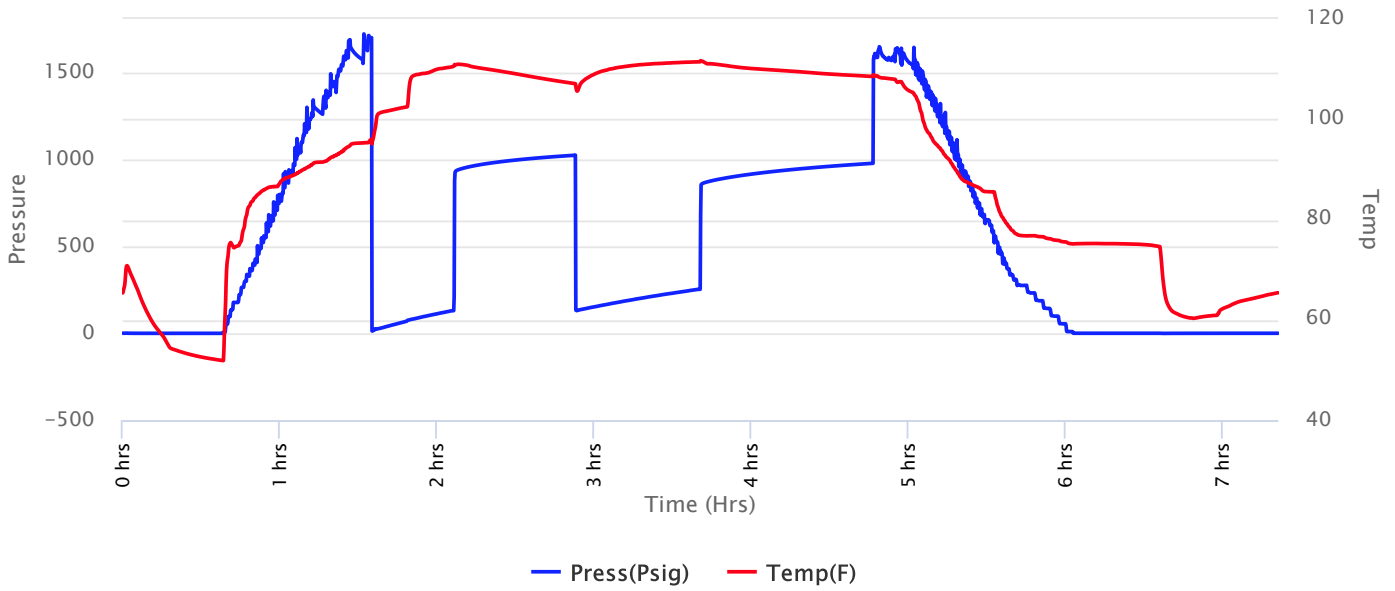
**DST #4 Formation: Arbuckle Test Interval: 3339 - 3353' Total Depth: 3353'**

Time On: 05:18 04/25 Time Off: 12:27 04/25  
Time On Bottom: 06:51 04/25 Time Off Bottom: 09:51 04/25

Electronic Volume Estimate:  
620'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 38.3" at 30 min	Current Reading: 0" at 45 min	Current Reading: 36.1" at 45 min	Current Reading: 0" at 60 min
Max Reading: 38.3"	Max Reading: 0"	Max Reading: 36.1"	Max Reading: 0"

Inside Recorder







**Company: RJM Oil Company, Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1894 GL  
 Field Name: Beaver South  
 Pool: Infield  
 Job Number: 327

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**25**  
 2019

**DST #4 Formation: Arbuckle Test Interval: 3339 - 3353' Total Depth: 3353'**  
 Time On: 05:18 04/25 Time Off: 12:27 04/25  
 Time On Bottom: 06:51 04/25 Time Off Bottom: 09:51 04/25

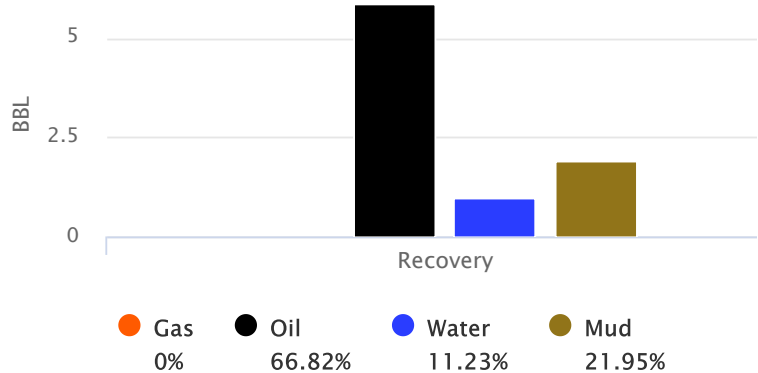
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
176	2.50448	O	0	100	0	0
315	4.48245	MCO	0	75	0	25
126	1.79298	HMCW	0	0	55	45

Total Recovered: 617 ft  
 Total Barrels Recovered: 8.77991

Reversed Out  
 NO

Initial Hydrostatic Pressure	1580	PSI
Initial Flow	14 to 131	PSI
<b>Initial Closed in Pressure</b>	<b>1026</b>	<b>PSI</b>
Final Flow Pressure	131 to 254	PSI
<b>Final Closed in Pressure</b>	<b>979</b>	<b>PSI</b>
Final Hydrostatic Pressure	1577	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	4.6	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: RJM Oil Company,  
Inc  
Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**25**  
2019

**DST #4      Formation: Arbuckle      Test Interval: 3339 -      Total Depth: 3353'**  
**3353'**

Time On: 05:18 04/25      Time Off: 12:27 04/25  
Time On Bottom: 06:51 04/25      Time Off Bottom: 09:51 04/25

**BUCKET MEASUREMENT:**

1st Open: 1/2 Blow. BOB in 7 1/2 mins  
1st Close: NOBB  
2nd Open: 1/2 Blow. BOB in 15 3/4 mins  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 95% Oil 0% Water 5% Mud

Gravity: 35 @ 60 °F

Ph: 7

Measured RW: .69 @ 65 degrees °F

RW at Formation Temp: 0.417 @ 112 °F

Chlorides: 15,000 ppm



# Company: RJM Oil Company, Inc

## Lease: Redetzke #2

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**25**  
2019

**DST #4      Formation: Arbuckle      Test Interval: 3339 - 3353'      Total Depth: 3353'**  
Time On: 05:18 04/25      Time Off: 12:27 04/25  
Time On Bottom: 06:51 04/25      Time Off Bottom: 09:51 04/25

### Down Hole Makeup

<b>Heads Up:</b> 10.37 FT	<b>Packer 1:</b> 3334 FT
<b>Drill Pipe:</b> 3324.21 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3339 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3326 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3341 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 14	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 0 FT  
*4 1/2-FH*

**Change Over:** 0 FT

**Drill Pipe: (in anchor):** 0 FT  
*ID-3 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 13 FT  
*4 1/2-FH*



**Company: RJM Oil Company,  
Inc**

**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**25**  
2019

**DST #4      Formation: Arbuckle      Test Interval: 3339 -      Total Depth: 3353'**  
**3353'**  
Time On: 05:18 04/25      Time Off: 12:27 04/25  
Time On Bottom: 06:51 04/25      Time Off Bottom: 09:51 04/25

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.1

**Viscosity:** 50

**Filtrate:** 8.8

**Chlorides:** 5000 ppm



**Company: RJM Oil Company,  
Inc**  
**Lease: Redetzke #2**

SEC: 34 TWN: 16S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1894 GL  
Field Name: Beaver South  
Pool: Infield  
Job Number: 327

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**25**  
2019

**DST #4    Formation: Arbuckle    Test Interval: 3339 -    Total Depth: 3353'**  
**3353'**  
Time On: 05:18 04/25    Time Off: 12:27 04/25  
Time On Bottom: 06:51 04/25    Time Off Bottom: 09:51 04/25

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 1272

Date	4-20-19	Sec.	34	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	2:15 AM
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Location Beaver - 15, 1 1/2 E

Lease	<u>Redetzke</u>	Well No.	<u>#2</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>Southwind</u>		<u>#3</u>		
Type Job	<u>Surface</u>			Charge To	<u>RJM Company</u>
Hole Size	<u>12 1/4"</u>	T.D.	<u>385'</u>	Street	
Csg.	<u>8 5/8"</u>	Depth	<u>385'</u>	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<u>20'</u>	Shoe Joint	<u>20'</u>	Cement Amount Ordered <u>180 6 1/4 4% CC 2% Gel</u>	
Meas Line		Displace	<u>23 1/4 BUS</u>		

**EQUIPMENT**

Pumptrk	<u>16</u>	No.	Cementer	<u>Rick</u>	Common	<u>108</u>
			Helper		Poz. Mix	<u>72</u>
Bulktrk	<u>14</u>	No.	Driver	<u>Doug</u>	Gel.	<u>3</u>
			Driver	<u>Nate</u>	Calcium	<u>8</u>
Bulktrk		No.	Driver			
			Driver			

**JOB SERVICES & REMARKS**

Remarks:	<u>Cement did Circulate</u>	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<u>190 191</u>
		Mileage	

**FLOAT EQUIPMENT**

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Pumptrk Charge Surface  
Mileage 26

X Signature Jay Shaw

Tax  
Discount  
Total Charge

**DEFINITIONS:** In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 1278

Date	4-25-19	Sec.	34	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	11:15 PM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Lease	Redetzke	Well No.	#2	Location	Beaver - 15, 1 1/2 E, 5/1 into										
-------	----------	----------	----	----------	--------------------------------	--	--	--	--	--	--	--	--	--	--

Contractor	Southwind #3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.												
------------	--------------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--

Type Job	Longstring	Charge To	RJM Company												
----------	------------	-----------	-------------	--	--	--	--	--	--	--	--	--	--	--	--

Hole Size	7 7/8"	T.D.	3353'	Street											
Csg.	1 7/8" 5 1/2" New	Depth	3351'	City											
Tbg. Size		Depth		State											

Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	11.15'	Shoe Joint	11.15'	Cement Amount Ordered	180 Com 10% Salt 5% Gilsontite										

Meas Line		Displace	77 1/2 BS	506 gal mud Clear 48											
<b>EQUIPMENT</b>				Common	/80										

Pumptrk	16	No.	Cementer	David	Poz. Mix										
			Helper												
Bulktrk	3	No.	Driver	Michael	Gel.										
			Driver	Nate											
Bulktrk	P.U.	No.	Driver	Rick	Calcium										
			Driver												

<b>JOB SERVICES &amp; REMARKS</b>				Hulls											
Remarks:				Salt	16										

Rat Hole				Flowseal											
Mouse Hole				Kol-Seal	900#										

Centralizers	1-9			Mud CLR 48	500 gal										
Baskets	2+6			CFL-117 or CD110 CAF 38											

D/V or Port Collar	Pipe on bottom break Circulation			Sand											
Pump	500 gal mud Clear 48, Plug			Handling	205										

Rathole	w/ 305x, Cement 5 1/2" casing			Mileage											
	w/ 1505x. Shut down wash pump			<b>FLOAT EQUIPMENT</b>											

	+ lines Released plug + Displaced			Guide Shoe											
	w/ 77 1/2 BS H2O. Released + held.			Centralizer	9										

	Lift pressure 600 #			Baskets	2										
	Land plug to 1500 #			AFU Inserts											

				Float Shoe	1										
				Latch Down	1										

				Rotating head											
--	--	--	--	---------------	--	--	--	--	--	--	--	--	--	--	--

				Pumptrk Charge	prod string										
				Mileage	26										

				Tax											
				Discount											
				Total Charge											

X Signature *Jay Shrin*

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.