

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](mailto: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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Form	ACO1 - Well Completion
Operator	RJM Company
Well Name	K&C MILLER 1
Doc ID	1419993

All Electric Logs Run

CDL
MEL
Sonic
DIL





# Company: RJM Oil Company, Inc

## Lease: K&C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Unknown  
Pool: Infield  
Job Number: 196

**Operation:**  
Test Complete

**DATE**  
August  
**06**  
2018

**DST #1**      **Formation: Lansing A-F**      **Test Interval: 3126 - 3220'**      **Total Depth: 3220'**  
Time On: 06:29 08/06      Time Off: 13:22 08/06  
Time On Bottom: 08:55 08/06      Time Off Bottom: 11:10 08/06

Electronic Volume Estimate:  
3099'

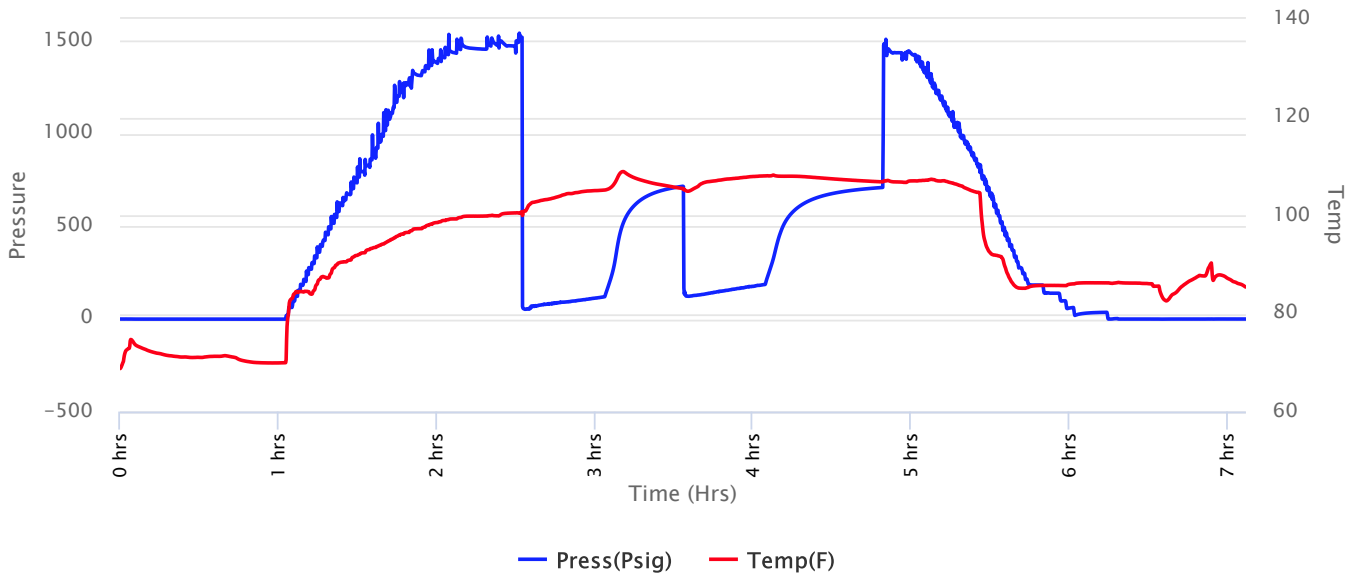
1st Open  
Minutes: 30  
Current Reading:  
384" at 30 min  
Max Reading: 384"

1st Close  
Minutes: 30  
Current Reading:  
4.2" at 30 min  
Max Reading: 4.2"

2nd Open  
Minutes: 30  
Current Reading:  
358" at 30 min  
Max Reading: 358"

2nd Close  
Minutes: 45  
Current Reading:  
8.4" at 45 min  
Max Reading: 8.4"

Inside Recorder





# Company: RJM Oil Company, Inc

## Lease: K&C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1823 GL  
 Field Name: Unknown  
 Pool: Infield  
 Job Number: 196

**Operation:**  
 Test Complete

**DATE**  
 August  
**06**  
 2018

**DST #1**      **Formation: Lansing A-F**      **Test Interval: 3126 - 3220'**      **Total Depth: 3220'**  
 Time On: 06:29 08/06      Time Off: 13:22 08/06  
 Time On Bottom: 08:55 08/06      Time Off Bottom: 11:10 08/06

Recovered

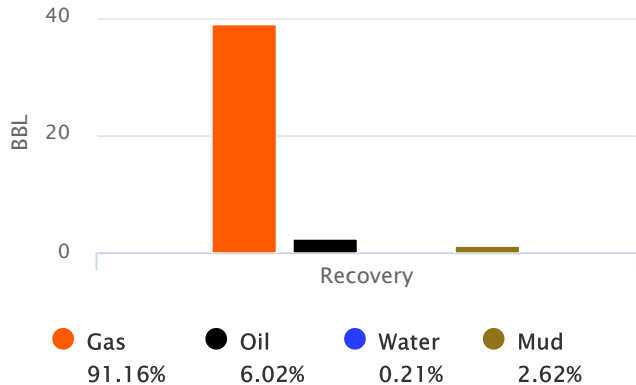
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
43	0.61189	SLOGGCM	20	10	0	70
63	0.89649	SLGCHOCM	10	30	0	60
126	1.79298	SLMCSLWCHOCG	49	45	5	1
63	0.89649	O	0	100	0	0
63	0.89649	SLMCGCO	25	60	0	15
2646	37.65258	G	100	0	0	0

Total Recovered: 3004 ft  
 Total Barrels Recovered: 42.74692

Reversed Out  
 NO

Initial Hydrostatic Pressure	1473	PSI
Initial Flow	56 to 120	PSI
<b>Initial Closed in Pressure</b>	<b>715</b>	<b>PSI</b>
Final Flow Pressure	124 to 186	PSI
<b>Final Closed in Pressure</b>	<b>709</b>	<b>PSI</b>
Final Hydrostatic Pressure	1448	PSI
Temperature	109	°F
Pressure Change Initial Close / Final Close	0.9	%

Recovery at a glance





**Company: RJM Oil Company,  
Inc**

**Lease: K&C Miller #1**

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Unknown  
Pool: Infield  
Job Number: 196

**Operation:**  
Test Complete

**DATE**  
August  
**06**  
2018

<b>DST #1</b>	<b>Formation: Lansing A-F</b>	<b>Test Interval: 3126 - 3220'</b>	<b>Total Depth: 3220'</b>
	Time On: 06:29 08/06	Time Off: 13:22 08/06	
	Time On Bottom: 08:55 08/06	Time Off Bottom: 11:10 08/06	

**BUCKET MEASUREMENT:**

1st Open: 1" bob in 2 min  
1st Close: Built to 4.2 "  
2nd Open: 5" bob in 1 min

**REMARKS:**

2ft slide before tagged btm

Tool Sample: 10% Gas 50% Oil 10% Water 30% Mud

Gravity: 49.5 @ 60 °F



# Company: RJM Oil Company, Inc

## Lease: K&C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Unknown  
Pool: Infield  
Job Number: 196

**Operation:**  
Test Complete

**DATE**  
August  
**06**  
2018

**DST #1**      **Formation: Lansing A-F**      **Test Interval: 3126 - 3220'**      **Total Depth: 3220'**  
Time On: 06:29 08/06      Time Off: 13:22 08/06  
Time On Bottom: 08:55 08/06      Time Off Bottom: 11:10 08/06

### Down Hole Makeup

<b>Heads Up:</b> 5.33 FT	<b>Packer 1:</b> 3121 FT
<b>Drill Pipe:</b> 3098.76 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3126 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3110.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3195 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 94

#### Anchor Makeup

**Packer Sub:** 1 FT

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

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 63.5 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 26 FT  
*4 1/2-FH*





# Company: RJM Oil Company, Inc

## Lease: K&C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Unknown  
Pool: Infield  
Job Number: 196

**Operation:**

Test Complete

**DATE**

August

**06**

2018

**DST #1      Formation: Lansing      Test Interval: 3126 -      Total Depth: 3220'**  
   A-F    3220'

Time On: 06:29 08/06

Time Off: 13:22 08/06

Time On Bottom: 08:55 08/06      Time Off Bottom: 11:10 08/06

### Mud Properties

**Mud Type:** Chemical

**Weight:** 8.8

**Viscosity:** 51

**Filtrate:** 7.2

**Chlorides:** 4000 ppm



**Company: RJM Oil Company, Inc**

**Lease: K&C Miller #1**

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Unknown  
Pool: Infield  
Job Number: 196

**Operation:**  
Test Complete

**DATE**  
August  
**06**  
2018

**DST #1**      **Formation: Lansing A-F**      **Test Interval: 3126 - 3220'**      **Total Depth: 3220'**  
Time On: 06:29 08/06      Time Off: 13:22 08/06  
Time On Bottom: 08:55 08/06      Time Off Bottom: 11:10 08/06

### Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D





# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**  
Uploading recovery & pressures

**DATE**  
August  
**06**  
2018

**DST #2**      **Formation: Lansing H-J**      **Test Interval: 3265 - 3350'**      **Total Depth: 3350'**  
Time On: 23:26 08/06      Time Off: 06:27 08/07  
Time On Bottom: 01:21 08/07      Time Off Bottom: 04:36 08/07

Electronic Volume Estimate:  
181'

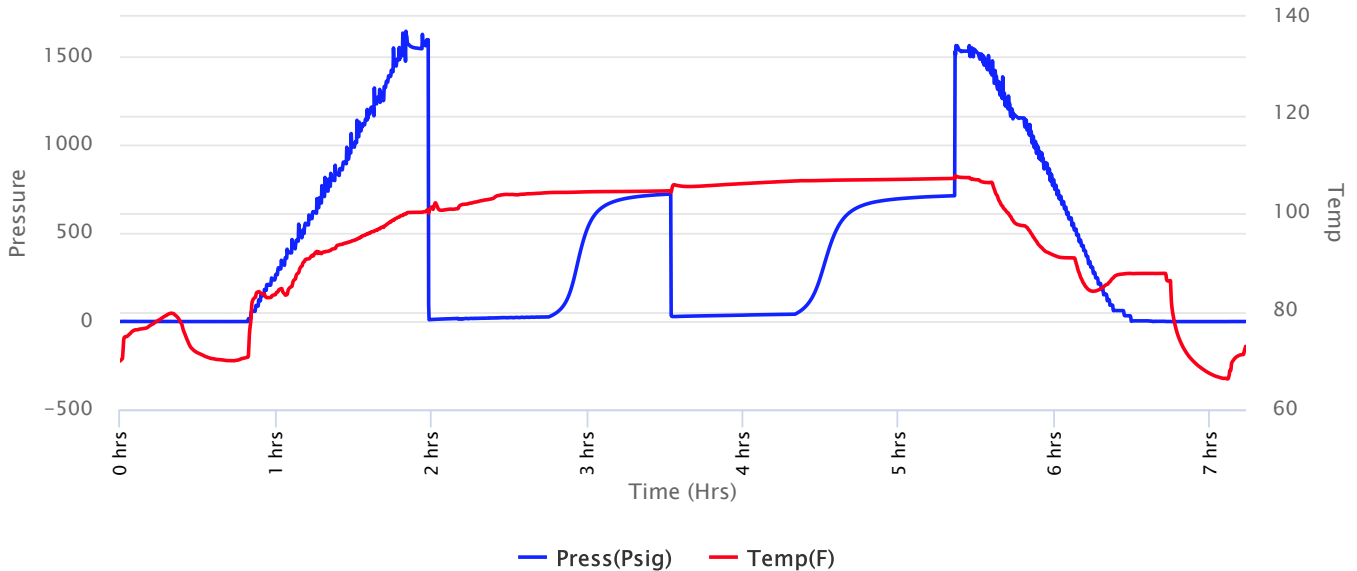
1st Open  
Minutes: 45  
Current Reading: 7.2" at 45 min  
Max Reading: 7.2"

1st Close  
Minutes: 45  
Current Reading: 0" at 45 min  
Max Reading: 7.4"

2nd Open  
Minutes: 45  
Current Reading: 6.9" at 45 min  
Max Reading: 6.9"

2nd Close  
Minutes: 60  
Current Reading: 0" at 60 min  
Max Reading: 0"

Inside Recorder





**Company: RJM Oil Company, Inc**

**Lease: K & C Miller #1**

SEC: 10 TWN: 19S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1823 GL  
 Field Name: Cheyenne View  
 Pool: Infield  
 Job Number: 196

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**06**  
 2018

**DST #2**      **Formation: Lansing H-J**      **Test Interval: 3265 - 3350'**      **Total Depth: 3350'**  
 Time On: 23:26 08/06      Time Off: 06:27 08/07  
 Time On Bottom: 01:21 08/07      Time Off Bottom: 04:36 08/07

Recovered

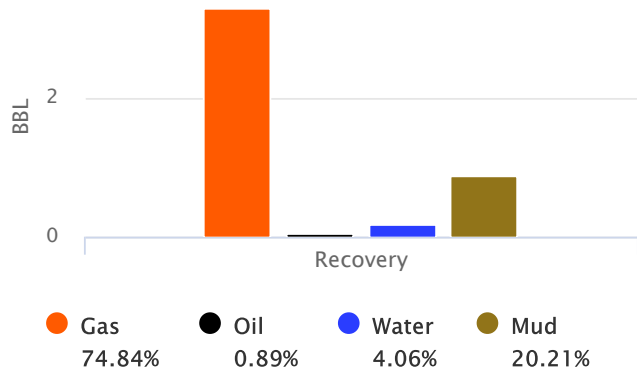
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
232	3.30136	G	100	0	0	0
15	0.21345	SLOCM	0	10	0	90
63	0.89649	SLOCWCM	0	2	20	78

Total Recovered: 310 ft  
 Total Barrels Recovered: 4.4113

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1552	PSI
Initial Flow	10 to 25	PSI
<b>Initial Closed in Pressure</b>	<b>723</b>	<b>PSI</b>
Final Flow Pressure	28 to 41	PSI
<b>Final Closed in Pressure</b>	<b>713</b>	<b>PSI</b>
Final Hydrostatic Pressure	1546	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	1.3	%

**Recovery at a glance**





**Company: RJM Oil Company,  
Inc**

**Lease: K & C Miller #1**

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**

Uploading recovery &  
pressures

**DATE**

August

**06**

2018

<b>DST #2</b>	<b>Formation: Lansing H-J</b>	<b>Test Interval: 3265 - 3350'</b>	<b>Total Depth: 3350'</b>
	Time On: 23:26 08/06	Time Off: 06:27 08/07	
	Time On Bottom: 01:21 08/07	Time Off Bottom: 04:36 08/07	

**BUCKET MEASUREMENT:**

1st Open: Wsb built to 7.2"

1st Close: Nobb

2nd Open: Wsb built to 6.9"

2nd Close: Nobb

**REMARKS:**

Tool Sample: 0% Gas 8% Oil 32% Water 60% Mud

Ph: 7

Measured RW: .35 @ 70 degrees °F

RW at Formation Temp: 0.236 @ 107 °F

Chlorides: 19000 ppm



# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**  
Uploading recovery & pressures

**DATE**  
August  
**06**  
2018

**DST #2**      **Formation: Lansing H-J**      **Test Interval: 3265 - 3350'**      **Total Depth: 3350'**  
Time On: 23:26 08/06      Time Off: 06:27 08/07  
Time On Bottom: 01:21 08/07      Time Off Bottom: 04:36 08/07

### Down Hole Makeup

<b>Heads Up:</b> 17.35 FT	<b>Packer 1:</b> 3260 FT
<b>Drill Pipe:</b> 3257.19 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3265 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3252 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3334 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> 85	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

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

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 63 FT  
*ID-3 1/2*

**Change Over:** 1 FT

**Perforations: (below):** 17 FT  
*4 1/2-FH*







# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**  
Uploading recovery & pressures

**DATE**  
August  
**07**  
2018

**DST #3**    **Formation: Arbuckle**    **Test Interval: 3360 - 3434'**    **Total Depth: 3434'**  
Time On: 18:52 08/07    Time Off: 01:04 08/08  
Time On Bottom: 20:46 08/07    Time Off Bottom: 23:31 08/07

Electronic Volume Estimate:  
8'

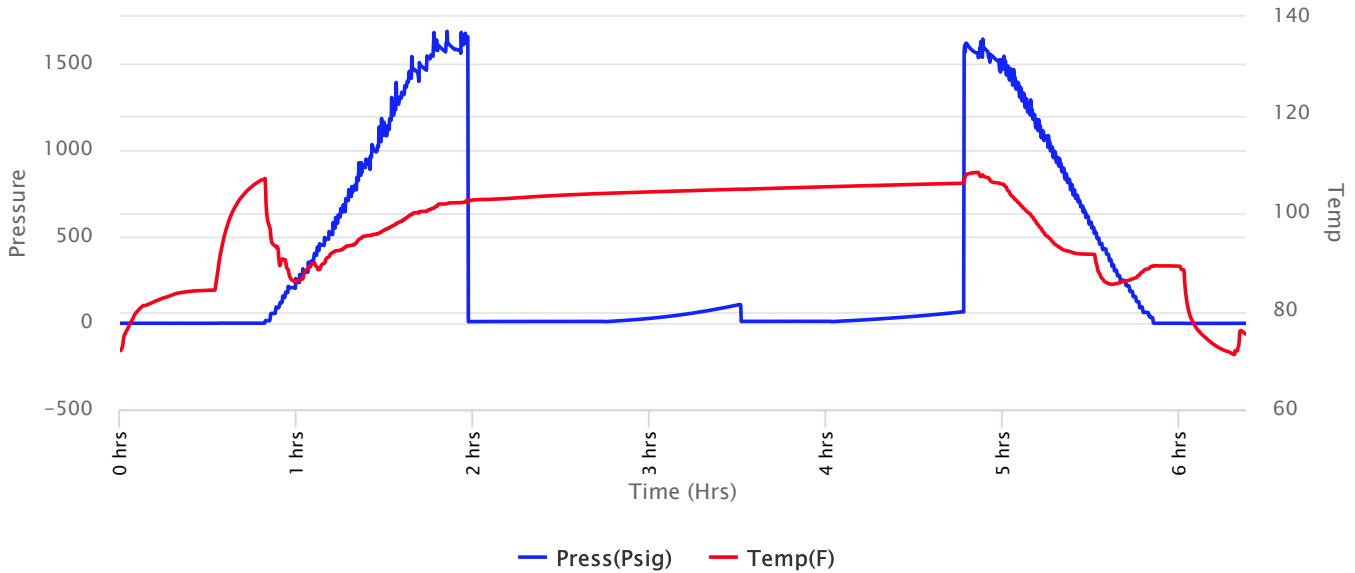
1st Open  
Minutes: 45  
Current Reading:  
.1" at 45 min  
Max Reading: .9"

1st Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

Inside Recorder





# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1823 GL  
 Field Name: Cheyenne View  
 Pool: Infield  
 Job Number: 196

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**07**  
 2018

**DST #3**    **Formation: Arbuckle**    **Test Interval: 3360 - 3434'**    **Total Depth: 3434'**  
 Time On: 18:52 08/07    Time Off: 01:04 08/08  
 Time On Bottom: 20:46 08/07    Time Off Bottom: 23:31 08/07

Recovered

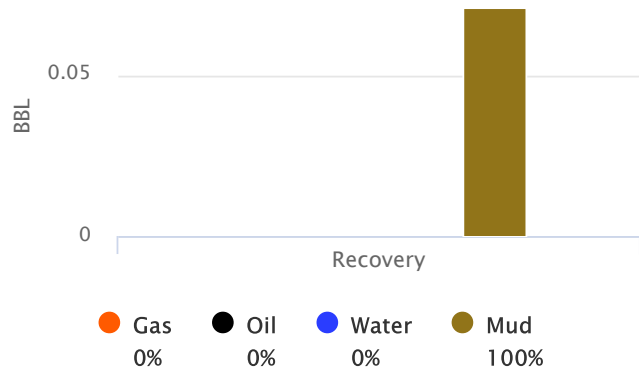
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M	0	0	0	100

Total Recovered: 5 ft

Total Barrels Recovered: 0.07115

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1591	PSI
Initial Flow	9 to 10	PSI
<b>Initial Closed in Pressure</b>	<b>108</b>	<b>PSI</b>
Final Flow Pressure	10 to 11	PSI
<b>Final Closed in Pressure</b>	<b>65</b>	<b>PSI</b>
Final Hydrostatic Pressure	1587	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	39.9	%



**Company: RJM Oil Company,  
Inc**

**Lease: K & C Miller #1**

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**

Uploading recovery &  
pressures

**DATE**

August

**07**

2018

**DST #3      Formation: Arbuckle      Test Interval: 3360 -      Total Depth: 3434'**  
**3434'**

Time On: 18:52 08/07

Time Off: 01:04 08/08

Time On Bottom: 20:46 08/07

Time Off Bottom: 23:31 08/07

**BUCKET MEASUREMENT:**

1st Open: Wsb built to .9" then died back down to wsb.

1st Close: Nobb

2nd Open: No blow no build

2nd Close: Nobb

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**  
Uploading recovery & pressures

**DATE**  
August  
**07**  
2018

**DST #3      Formation: Arbuckle      Test Interval: 3360 - 3434'      Total Depth: 3434'**  
Time On: 18:52 08/07      Time Off: 01:04 08/08  
Time On Bottom: 20:46 08/07      Time Off Bottom: 23:31 08/07

### Down Hole Makeup

<b>Heads Up:</b> 16.47 FT	<b>Packer 1:</b> 3355 FT
<b>Drill Pipe:</b> 3351.31 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3360 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3347 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3427 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> 74	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

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

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 62.5 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 8 FT  
*4 1/2-FH*



# Company: RJM Oil Company, Inc

## Lease: K & C Miller #1

SEC: 10 TWN: 19S RNG: 12W  
County: BARTON  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1823 GL  
Field Name: Cheyenne View  
Pool: Infield  
Job Number: 196

**Operation:**  
Uploading recovery & pressures

**DATE**  
August  
**07**  
2018

**DST #3      Formation: Arbuckle      Test Interval: 3360 - 3434'      Total Depth: 3434'**

Time On: 18:52 08/07      Time Off: 01:04 08/08  
Time On Bottom: 20:46 08/07      Time Off Bottom: 23:31 08/07

### Mud Properties

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 60      **Filtrate:** 7.6      **Chlorides:** 6000 ppm



# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY <u>RJM Company</u>	ELEVATIONS
LEASE <u>K&amp;C Miller #1</u>	KB <u>1831'</u>
FIELD <u>Cheyenne View</u>	DF _____
LOCATION <u>NE-SE-NW-NE (700' FNL &amp; 1560' FEL)</u>	GL <u>1823'</u>
SEC <u>10</u> TWSP <u>19S</u> RGE <u>12W</u>	Measurements Are All From <u>KB</u>
COUNTY <u>Barton</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Southwind Drilling, Inc. (Rig #3)</u>	CASING
SPUD <u>08/03/2018</u> COMP <u>08/08/2018</u>	SURFACE <u>8 5/8"@292'</u>
RTD <u>3488'</u> LTD <u>3488'</u>	PRODUCTION <u>5 1/2"@3485'</u>
MUD UP <u>2700'</u> TYPE MUD <u>Chemical</u>	ELECTRICAL SURVEYS ELI- CDL/CDL, MEL SONIC, DIL

SAMPLES SAVED FROM 2700' TO RTD

DRILLING TIME KEPT FROM 2700' TO RTD

SAMPLES EXAMINED FROM 2700' TO RTD

GEOLOGICAL SUPERVISION FROM 2740' TO RTD

GEOLOGIST ON WELL Wyatt Urban

FORMATION TOPS	LOG		SAMPLES	
Anhydrite	679	+1152	670	(+1161)
B. Anhydrite	694	+1137	693	(+1138)
Heebner	3011	(-1180)	3011	(-1180)
Toronto	3030	(-1199)	3033	(-1202)
Brown Lime	3124	(-1293)	3122	(-1291)
Lansing	3138	(-1307)	3137	(-1306)
BKC	3366	(-1535)	3370	(-1539)
Conglomerate	3391	(-1560)	3382	(-1551)
Arbuckle	3415	(-1584)	3423	(-1592)
RTD	3488	(-1657)	3488	(-1657)
LTD	3488	(-1657)	3488	(-1657)

		X	
	10		
---			(-)

# LEGEND

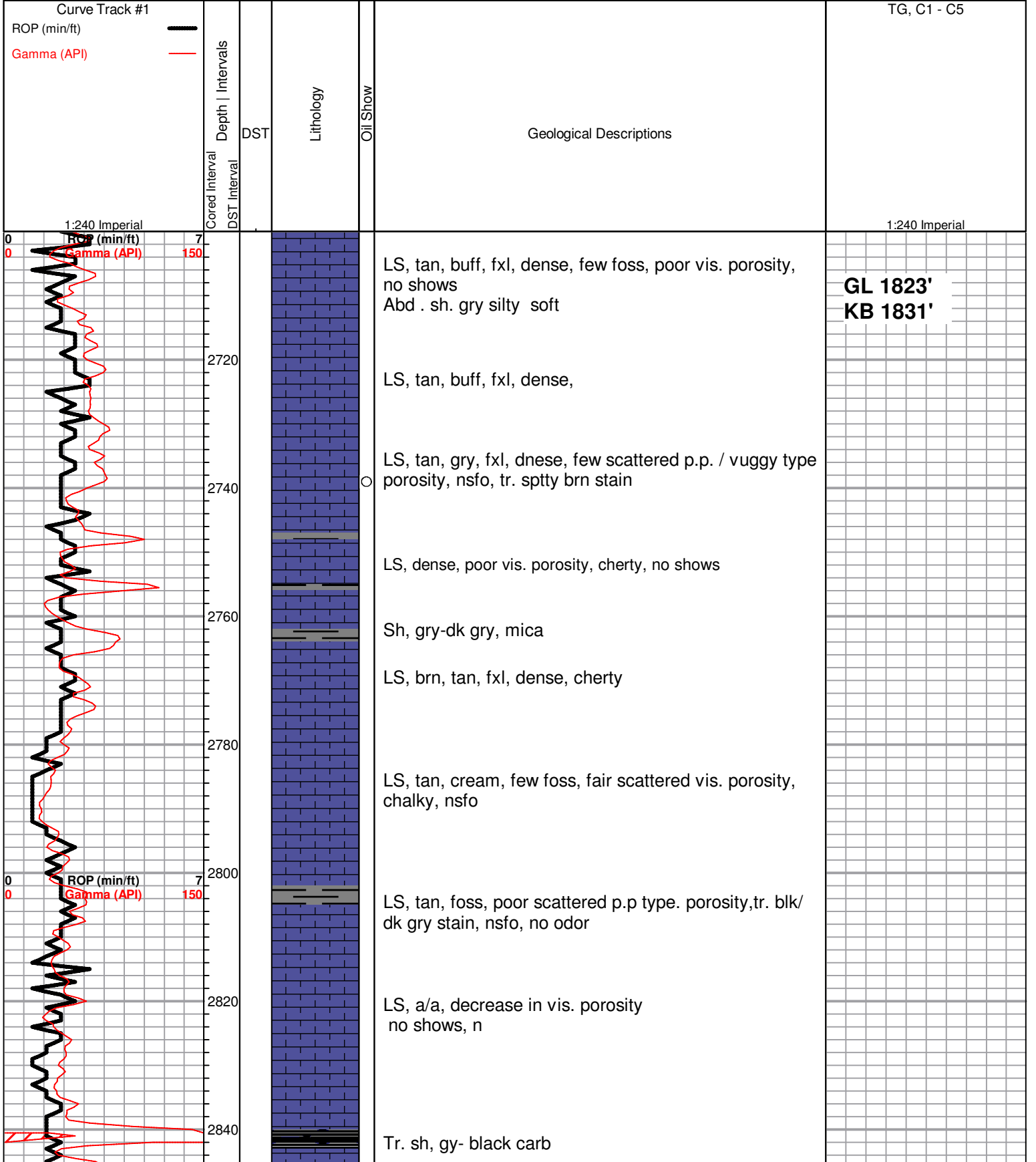
## Oil Show

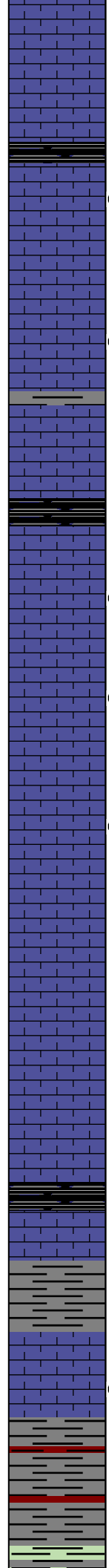
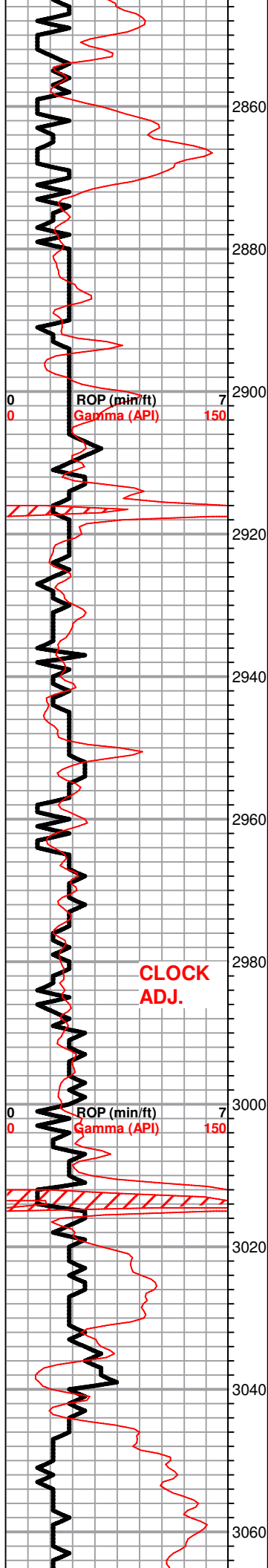
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Strn
- Fluorescence
- \* Gas

## DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





LS, tan/ brn, fxl, dense, tr. smoky gry chert , no shows

Sh, blk carb.

LS, tan, poor scattered p.p.- vuggy porosity, tr. brn stain on few, nsfo, no odor

LS, tan, cream, oom, good vuggy porosity, tr. brn stain, nsfo, ??? odor (in broken samples), abd. gry silty sh.

LS, brn-tan, fxl, few foss/ ool, fair scattered vis porosity, chalky, no shows

Sh, black carb

LS, tan, white, poor vis. porosity, chalky, tr. sppty brn stain, no sfo, no odor

LS, white, chlky, poor - fair scattered vis. porosity, tr. sppty brn stain on few, nsfo, no odor

LS, tan, brn foss, gran. scattered p.p. porosity. tr. sppty brn sfo, ??? odor

LS, tan- buff, fxl, few foss, poor vis. porosity, no shows

**CLOCK ADJ.**

LS, tan, foss,/ gran., poorly developed scattered p.p. type porosity, nsfo, no odor  
Tr. tan, opaque cherts

**Heebner 3011.0 (-1180.0)**

Sh, black carb

LS, tan, brn, fxl, dense

Sh, gry, mica

**Toronto 3032.0 (0.0)**

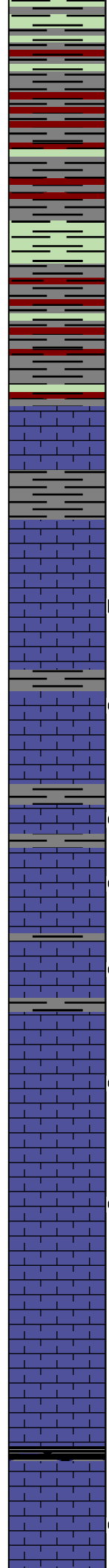
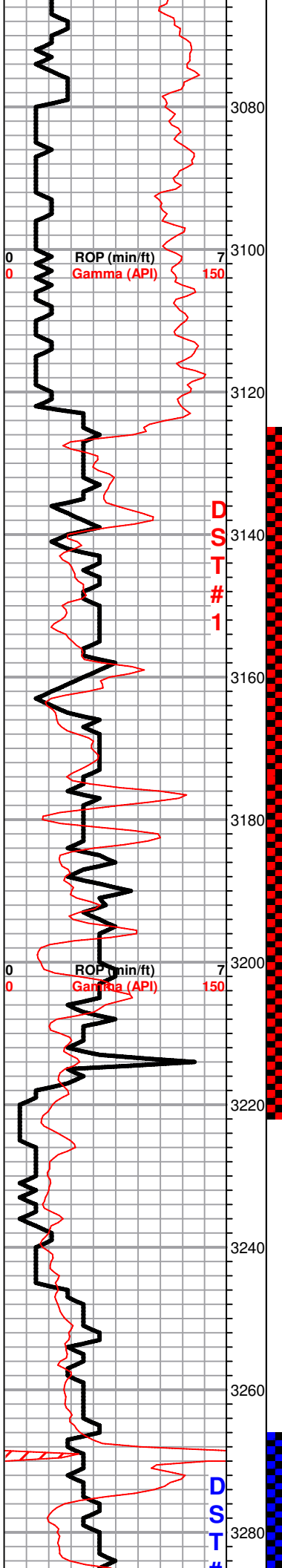
LS, white, cream, poor vis. porosity, tr. brn stain, nsfo, no odor

**Douglas 3044.0 (0.0)**

Sh . gry, maroon, red, tr. pyrite

Sh, v. c. silty, tr. sd. gry, f. grain, mica, tr black stain,





nsfo, no odor

Sh, a/a

Sh, gry, maroon, greenish, few soft

**Brown Lime 3122.0 (-1291.0)**

LS, brn fxl, dense, cherty, app. heavily fractured

Sh, gry silty, few soft

**Lansing 3137.0 (-1306.0)**

LS, tan, foss, dense, poor vis. scattered p.p. porosity, tr. brn / blk stain (dead / in app.) nsfo, no odor

Tr. gry sh

● LS cream, white, fair scattered oom - vuggy porosity, tr. brn stain, golden brn sfo/sat., ft. odor

○ LS tan, brn, ool, scattered vuggy type porosity, tr. brn stain, tr golden brn sfo/ wk sat., ft. - fr. odor

○ LS cream, dense, poorly scattered p.p. porosity, tr. brn stain, tr. dark brn spty sfo (few) & vis gas bubbles (wk), when crushed, faint odor

● LS, tan, /gry, foss, good scattered vuggy type porosity, dk brn stain, sfo/sat. fair odor.

○ LS, tan, brn, foss, / ool, fair scattered oom/ vuggy type porosity, tr. brn stain, ft. odor

○ LS, cream, tan, oom, good vuggy porosity, (tr. blk stain on poorly developed oom LS only) nsfo, no odor

LS, cream, poor vis porosity, dense, nsfo

LS tan, brn, fxl, few foss, dense, cherty, no shows

Black carb Sh.

○ LS, brn, tan, dense, cherty, poor vis. porosity, tr. lt. brn stain, nsfo, no odor

DST#1 3126-3220  
30-30-30-45

**1st Open:**  
BOB 2 min

**1st Shut in:**  
built to 4.5"

**2nd Open:**  
BOB 1 min

**Recovery:**  
2646' GIP

63' Clean Oil

63' SLMCGCO  
(25%O, 60%O, 15%M)

126' SLM&WCHOCCG  
49%G, 45%O, 5%W, 1%M)

63' SLGCHOCCM  
(10%G, 30%O, 60%M)

43' SLOGCCM  
(20%G, 10%O, 70%M)

**Pressures:**  
ISIP 715 psi  
FSIP 709 psi  
IFP 56-120 psi  
FFP 123-134 psi  
HSH 1473-1448 psi

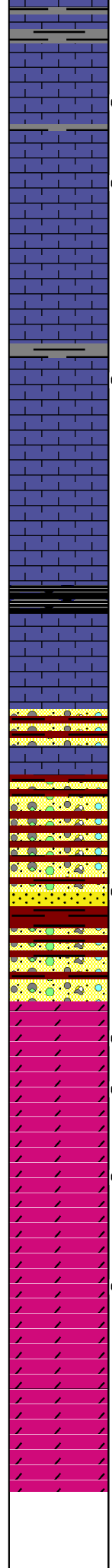
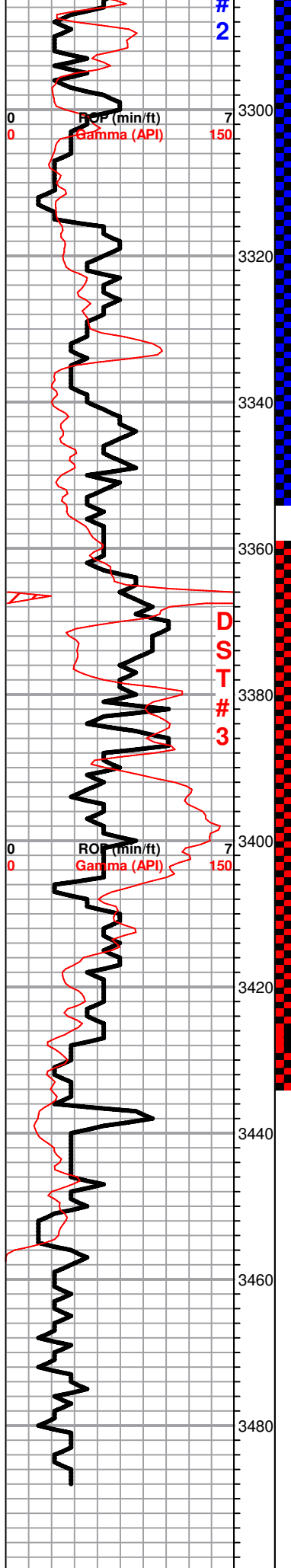
**Tool Sample:**  
(10%G, 50%O, 10%W, 30%M)

**\*Tool Slid 2' before tagging bottom**

**DST#2 3263-3350**  
45-45-45-60

**1st Open:**  
WSB built 7.2"

**2nd Open:**



Sh, gry, dk gry

LS, tan, brn, foss/ oom, good vuggy oom porosity, golden brn stain/ sat., few vis. gas bubbles. faint odor

LS, tan, poor-fair scattered p.p./ vuggy type porosity sl. chalky, tr. brn / golden brn stain, sfo/sat., fair odor

LS, brn dense, poor vis porosity, no shows ,no odor

Sh, gry, silty---> waxey

LS, white, cream, fxl, foss, poor scattered vis. porosity, tr. lt. brn - blk stain, nsfo, ??? odor

LS, white, cream, fxl, few foss, dense, poor vis. porosity, tr. tan & white chert

**BKC 3370.0 (-1539.0)**

Sh, gry, maroon, greenish, tr. pyrite

LS, white, cream, fxl, dense, poor vis. porosity

**Cong. 3382.0 (-1551.0)**

Sh, maroon, green, tr. tan, opaque, ool cherts

Sh, maroon (red wash in samples) V.C. cherts

Sh, a/a , tr. SD. f. grain, sub rounded, tr. black stain, nsfo, no odor

**Arbuckle 3424.0 (-1593.0)**

Dol. tan, brn, f-med xln (gran.) poor vis. porosity, dense, no shows

Dol. tan, med xln, few suc. lt. blk - brn stain, spty dk brn sfo (close to flakey), faint odor, **CFS-** 40 min. sample ,increase good SFO & odor

Dol. tan, gry, med xln, poor scattered vis. porosity, tr. blk stain on few, no odor, tr. white ool, chert tr. pyrite

Dol. tan, cream, f- med xln, good inxln porosity, tr. blk stain, nsfo, no odor

Dol. white,- cream, fxl, suc. good inxln porosity, no shows, abd. pyrite

**RTD 3488.0 (-1657.0)**

**LTD 3488.0 (-1657.0)**

**2nd Open:**  
WSB built 6.9"

**Recovery:**  
232' GIP

15' SOCM  
(10%O, 90%M)

63' SLOCWM  
(2%O, 20%W, 78% M)

**Pressures:**  
ISIP 723 psi  
FSIP 713 psi  
IFP 10-25 psi  
FFP 28-41 psi  
HSH 1552-1546 psi

**Poor sample quality**

**DST#3 3360-3434**  
45-45-45-60

**1st Open:**  
Weak Surface bow

**2nd Open:**  
No Blow

**Recovery:**  
5' Mud w/ tr. oil in tool sample

**Pressures:**  
ISIP 108 psi  
FSIP 65 psi  
IFP 9-10 psi  
FFP 10-11 psi  
HSH 1591-1587 psi

# 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. 921

Date	8-8-18	Sec.	10	Twp.	19	Range	12	County	Barton	State	Ks	On Location		Finish	9:00 PM
Lease								Location							
K+C Miller								Jaco Rd + 156 Hwy - N, E, 5/4 into							
Contractor								Well No.				Owner			
Southwind #3								1				To Quality Oilwell Cementing, Inc.			
Type Job												You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Longstring															
Hole Size								T.D.				Charge To			
5 7/8"								3488'				RJM Company			
Csg.								Depth				Street			
5 1/2" 15.50#								3489.81'							
Tbg. Size								Depth				City State			
Tool								Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.								Shoe Joint				Cement Amount Ordered			
10.78'								10.78'				180 Com 10% Salt 5% Gilsontite			
Meas Line								Displace				500 gal mud Clear 48			
								82 3/4 BLS							
<b>EQUIPMENT</b>								Common				180			
Pumptrk 17 No.								Cement Helper				Poz. Mix			
Glenn															
Bulktrk 15 No.								Driver				Gel.			
James															
Bulktrk p.u. No.								Driver				Calcium			
Rick															
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:								Salt				916			
Rat Hole								Flowseal				900#			
Mouse Hole								Kol-Seal							
Centralizers 1-9								Mud CLR 48				500 gal			
Baskets 3 + 7								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand Handling				205			
pipe on bottom break Circulation															
pump 500 gal mud Clear 48, plug rather								Mileage							
w/ 300x, Cement @ 5 1/2" casing															
w/ 1500x Cement, shut down, wash								<b>FLOAT EQUIPMENT</b>							
pump + lines Displaced plug w/ BLS								Guide Shoe							
of H2O, Released + held.								Centralizer							
Left pressure 800 #								Baskets				2			
Land plug to 1500 #								AFU Inserts				9			
								Float Shoe				1			
								Latch Down				1			
								Rotating head							
								Pumptrk Charge				15 Prod string			
								Mileage							
												Tax			
												Discount			
												Total Charge			
X Signature								Joy Kruen							

THANK'S →

## GENERAL TERMS AND CONDITIONS

**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 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 constructed 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. 918

Date	8-2-18	Sec.	10	Twp.	19	Range	12	County	Barton	State	Ks	On Location		Finish	11:00 PM
Lease								K+C Miller		Location		281 + Jaco Rd, E to 156 Hwy, IN, 10E			
Contractor		Southwind		Well No.		1		Owner		5/1 Int					
Type Job		Surface		Contractor #		3		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.							
Hole Size		12 1/4"		T.D.		293'		Charge To		RJM Company					
Csg.		8 5/8"		Depth		293'		Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.		15'		Shoe Joint		15'		Cement Amount Ordered 180 60/40 4% CC 2% Gel							
Meas Line				Displace		17 1/2 BLS									
<b>EQUIPMENT</b>								Common 110							
Pumptrk		17		No.				Cementer		Glenn					
Bulktrk		3		No.				Driver		Jack					
Bulktrk		p.u.		No.				Driver		Rick					
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:		Cement did Circulate										Salt			
Rat Hole												Flowseal			
Mouse Hole												Kol-Seal			
Centralizers												Mud CLR 48			
Baskets												CFL-117 or CD110 CAF 38			
D/V or Port Collar												Sand			
Thanks												Handling 101			
												Mileage			
<b>FLOAT EQUIPMENT</b>								Guide Shoe							
Quality Oilwell Cementing								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
Pumptrk Charge		Surface										Tax			
Mileage		15 (min)										Discount			
Signature		Joy Davis										Total Charge			

## GENERAL TERMS AND CONDITIONS

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– **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.

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– **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.