

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

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. 682

Date	3-31-18	Sec.	12	Twp.	18	Range	12	County	Barton	State	Ks	On Location		Finish	2:30 AM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease	Alfred	Well No.	1	Owner	W/Info	Location	ODin BLK top + Highway 4 - 25 1/4 E
-------	--------	----------	---	-------	--------	----------	-------------------------------------

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	Surface	Charge To	RJM Company
Hole Size	12 1/4"	T.D.	331'
Csg.	8 5/8"	Depth	331'

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 40% cc 20% Gel
Meas Line		Displace	20 BLS		

EQUIPMENT					
Pumptrk	16	No.	Cementer	Common	110
			Helper	Poz. Mix	70
Bulktrk	3	No.	Driver	Gel.	3
			Driver	Calcium	8
Bulktrk	p.u.	No.	Driver		
			Driver		

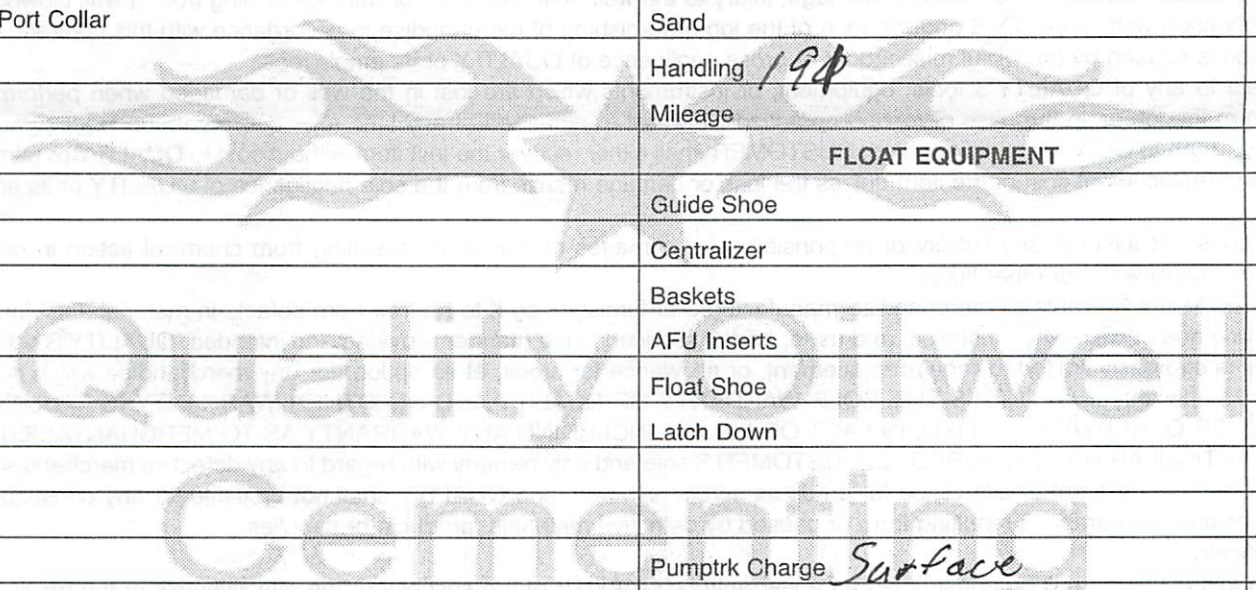
JOB SERVICES & REMARKS			
Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	194
		Mileage	

FLOAT EQUIPMENT			
		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	Surface		
Mileage	23		

		Tax	
		Discount	
		Total Charge	

X Signature *Jay Davis*



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 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. 687

Date	4-4-18	Sec.	12	Twp.	18	Range	12	County	Barton	State	Ks	On Location		Finish	1:00 PM	
Lease	A1Ared							Well No.	1	Location ODin, Blk 10pt Hwy 4 - 25 1/4 E, N15						
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	Plug							Charge To RSM Company								
Hole Size	7 7/8"							T.D.	3400'							
Csg.								Depth								
Tbg. Size	4 1/2" D.P.							Depth	3320'							
Tool								Depth								
Cement Left in Csg.								Shoe Joint	Cement Amount Ordered 230 60/40 40% Gel 1/4# Flowseal							
Meas Line	Displace H2O/mud															
EQUIPMENT										Common 138						
Pumptrk	16	No.	Cementer		Rick		Poz. Mix 92									
			Helper													
Bulktrk	14	No.	Driver		Travis		Gel. 8									
			Driver													
Bulktrk		No.	Driver				Calcium									
			Driver													
JOB SERVICES & REMARKS										Hulls						
Remarks:	3320' - 50 sx							Salt								
Rat Hole	690' - 50 sx							Flowseal 50#								
Mouse Hole	390' - 90 sx							Kol-Seal								
Centralizers	40' - 10 sx w/ plug							Mud CLR 48								
Baskets	Rathole w/ 30 sx							CFL-117 or CD110 CAF 38								
D/V or Port Collar								Sand								
	Cement did Circulate							Handling 238								
								Mileage								
FLOAT EQUIPMENT																
								Guide Shoe Dry hole plug								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Pumptrk Charge plug								
								Mileage 23								
Signature										Tax						
Jay Davis										Discount						
										Total Charge						

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 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 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.



Musgrove

**PETROLEUM
CORPORATION**
Clafin, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RJM Company

LEASE Alfred #1

FIELD Tritsch

LOCATION E/2-SE-SW-SW (330' ESL & 1300' FWL)

SEC 12 TWSP 18S RGE 12W

COUNTY Barton STATE Kansas

ELEVATIONS

KB 1810'

DF _____

GL 1802'

Measurements Are All
From KB

CONTRACTOR Southwind Drilling, Co. (Rig # 3)

SPUD 3/30/2018 COMP 04/04/2018

RTD 3400' LTD None

MUD UP 2783' TYPE MUD Chemical

CASING

SURFACE 8 5/8" @ 331'

PRODUCTION None

ELECTRICAL SURVEYS

NONE

SAMPLES SAVED FROM 2900' TO RTD

DRILLING TIME KEPT FROM 2900' TO RTD

SAMPLES EXAMINED FROM 2900' TO RTD

GEOLOGICAL SUPERVISION FROM 2950' TO RTD






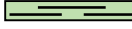

GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS	LOG	SAMPLES	
Heebner		2983	(-1173)
Toronto		2999	(-1189)
Douglas		3011	(-1201)
Brown Lime		3084	(-1274)
Lansing		3100	(-1290)
Base KC		3349	(-1539)
Conglomerate		3361	(-1551)

		12	

Arbuckle	3391	(-1581)	X
RTD	3400	(-1590)	





ROCK TYPES

 Chtcongl	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, grn	 Carbon Sh	

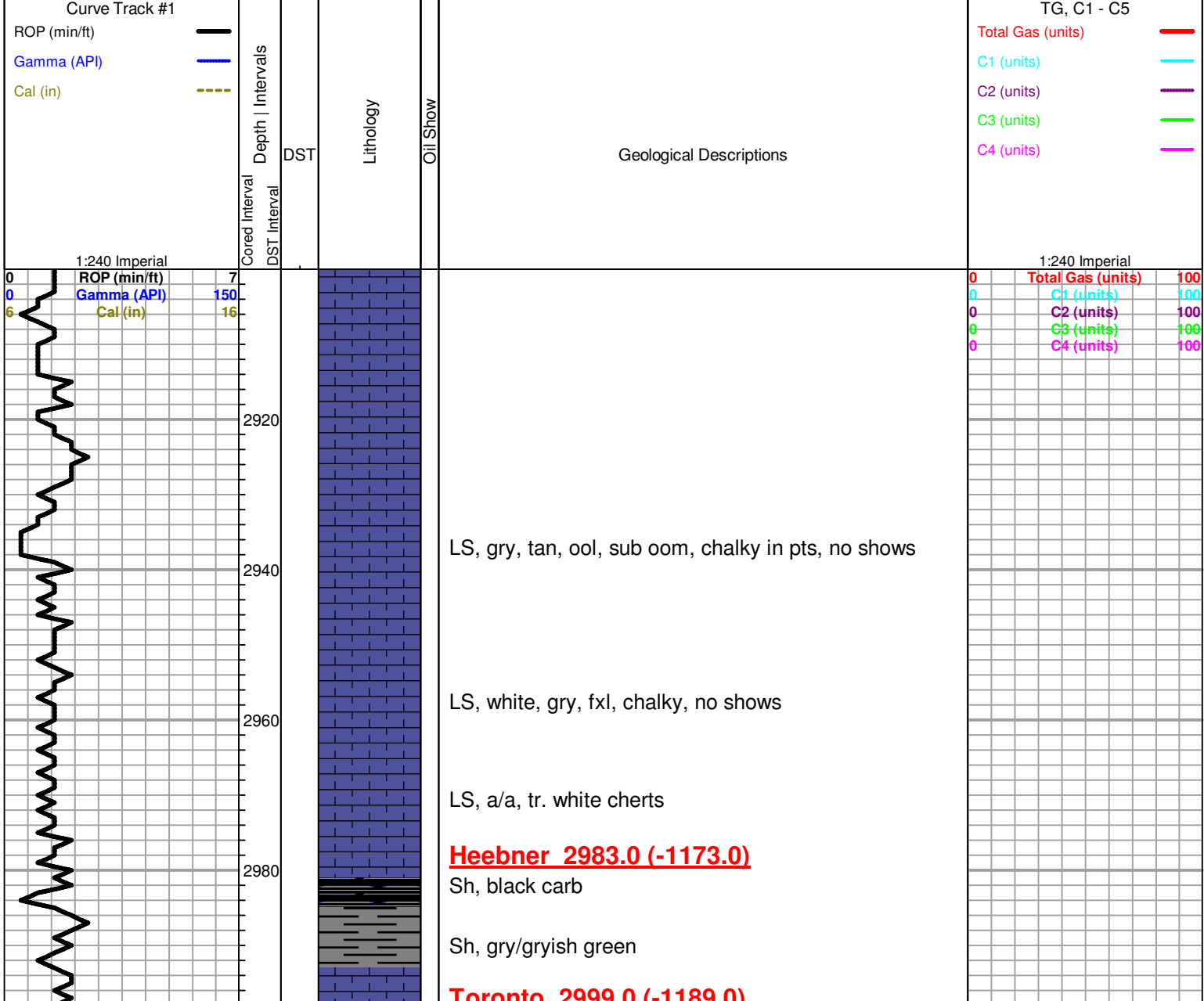
ACCESSORIES

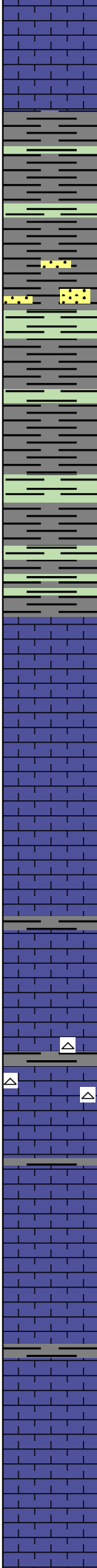
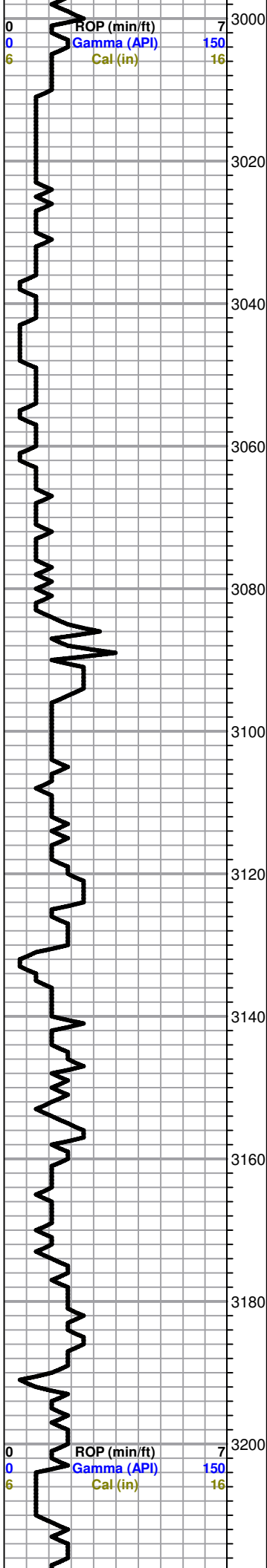
MINERAL	STRINGER
△ Chert White	 Conglomerate
	 Sandstone

OTHER SYMBOLS

Oil Show	DST
● Good Show	 DST Int
● Fair Show	 DST alt
● Poor Show	 Core
○ Spotted or Trace	 tail pipe
○ Questionable Strn	
D Dead Oil Strn	
■ Fluorescence	
* Gas	

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





Toronto 2999.0 (-1169.0)
LS, tan, fxl, sl. cherty (dense)

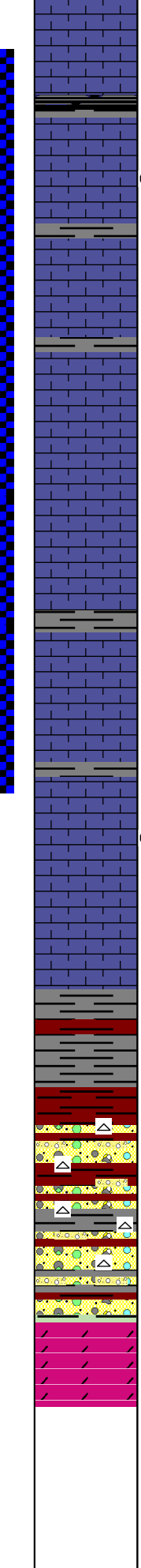
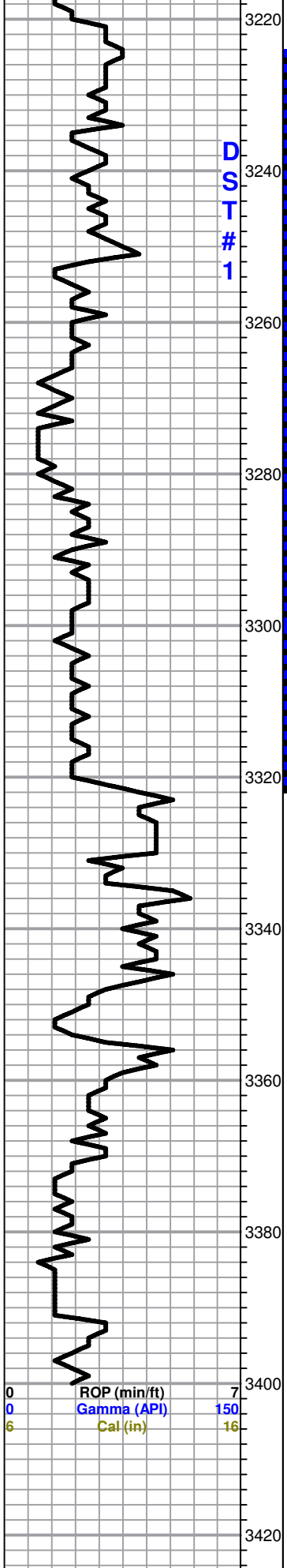
Douglas 3011.0 (-1201.0)
Sh, gry/ gryish green, maroon
Sh, a/a, tr. green vfg; mica, sd. friable in pts, no shows
Sh, a/a
Sh, gry/ gryish, silty

Brown Lime 3084.0 (-1274.0)
LS, tan, fxl, slightly cherty (dense)

Lansing 3100.0 (-1290.0)
LS, white, tan, fxl, few foss, chalky, no shows
LS, a/a
LS, tan, finely oom, chalky--> cherty, fair porosity, no shows
LS, tan, slightly ool, chalky, poorly developed porosity, no shows, tr. tan, & opaque cherts
LS, white, ool, sub oom, chalky, tr. poor brn stain, nsfo, no odor
LS, tan/buff, oom, fair oom porosity, no show
LS, tan, ool, oom, fair oom porosity, no show

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Tr. gry, cherty, LS

Sh, black carb

LS, gry, sub oom, chalky, tr. gry./ blk stain, nsfo, no odor

LS, white-gry, ool/foss in pts, chalky, poor vis. porosity, no show

LS, a/a

LS, gry, white, ool, chalky, poor vis. porosity, no show

LS, white, gry, ool, highly chalky, brown stain, nsfo, no odor

Base KC 3349.0 (-1539.0)

Sh, gry/ maroon

Conglomerate 3361.0 (-1551.0)

Sh, maroon

Sh, maroon/ rusty, brown, + gry/yellow cherts

Sh, v.c. + tan/red ool chert

Arbuckle 3391.0 (-1581.0)

Dol. tan, buff, fxl/med-xln, xl-scattered porosity, no shows, no odor

RTD 3400.0 (-159.0)

**DST#1 3224-3320
45-45-45-60**

1st Open:
Built to 8.4"

2nd Open:
WSB increasing to 6"

Recovery:
130' Muddy Water

Pressures:
ISIP 939 psi
FSIP 925 psi
IFP 13-44 psi
FFP 46-73 psi
HSH 1519-1506 psi

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



**Company: RJM Oil Company,
Inc**
Lease: Alfred #1

SEC: 12 TWN: 18S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1802 GL
Field Name: Tritsch
Pool: Infield
Job Number: 143

DATE
April
03
2018

DST #1 **Formation: L/KC** **Test Interval: 3224 - 3320'** **Total Depth: 3320'**

Time On: 07:10 04/03 Time Off: 14:33 04/03
Time On Bottom: 09:22 04/03 Time Off Bottom: 12:37 04/03

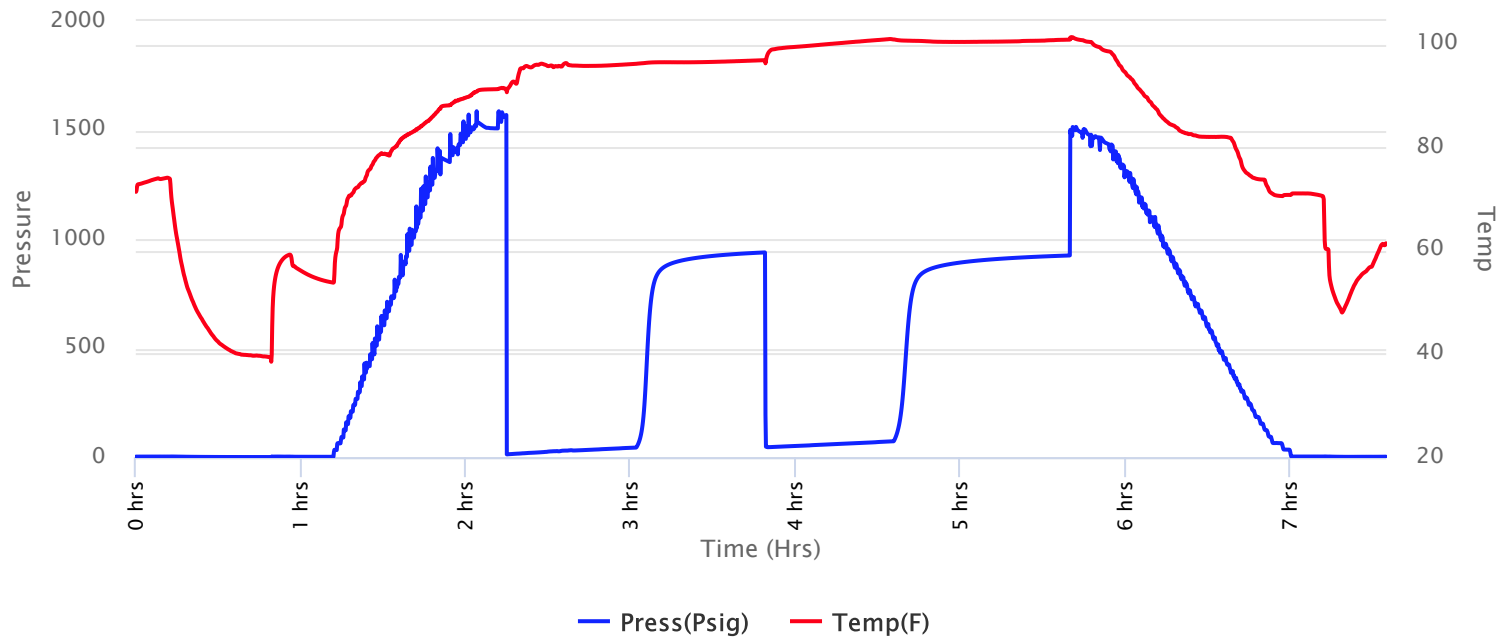
Electronic Volume
Estimate:
121'

1st Open
Minutes: 45
8.4" at 45 min

1st Close
Minutes: 45
0" at 45 min

2nd Open
Minutes: 45
6.1" at 45 min

2nd Close
Minutes: 60
0" at 60 min





**Company: RJM Oil Company,
Inc
Lease: Alfred #1**

SEC: 12 TWN: 18S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 3
 Elevation: 1802 GL
 Field Name: Tritsch
 Pool: Infield
 Job Number: 143

DATE
 April
03
 2018

DST #1 **Formation: L/KC** **Test Interval: 3224 - 3320'** **Total Depth: 3320'**
 Time On: 07:10 04/03 Time Off: 14:33 04/03
 Time On Bottom: 09:22 04/03 Time Off Bottom: 12:37 04/03

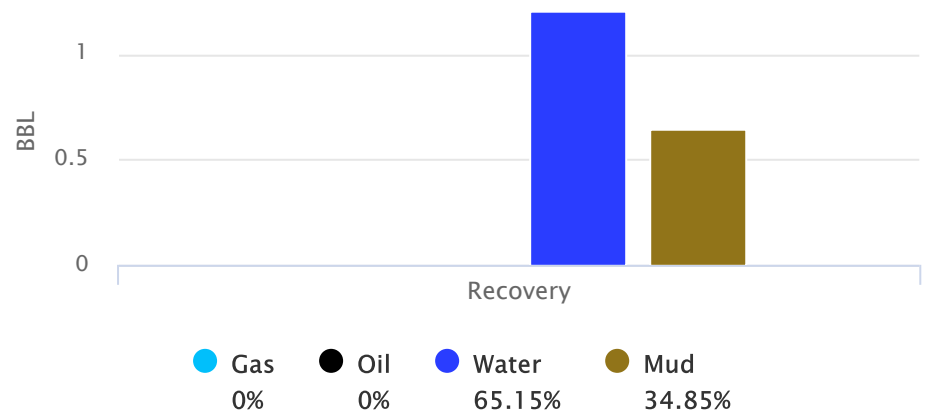
<u>Recovered</u>			<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>				
4	0.05692	M	0	0	0	100
80	1.1384	HMCW	0	0	57	43
46	0.65458	SLMCW	0	0	85	15

Total Recovered: 130 ft
 Total Barrels Recovered: 1.8499

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	1519	PSI
Initial Flow	13 to 44	PSI
Initial Closed in Pressure	939	PSI
Final Flow Pressure	46 to 73	PSI
Final Closed in Pressure	925	PSI
Final Hydrostatic Pressure	1506	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	1.5	%





**Company: RJM Oil Company,
Inc
Lease: Alfred #1**

SEC: 12 TWN: 18S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1802 GL
Field Name: Tritsch
Pool: Infield
Job Number: 143

DATE April 03 2018

DST #1	Formation: L/KC	Test Interval: 3224 - 3320'	Total Depth: 3320'
	Time On: 07:10 04/03	Time Off: 14:33 04/03	
	Time On Bottom: 09:22 04/03	Time Off Bottom: 12:37 04/03	

REMARKS:

Initial Flow: 1/4 in. blow building to 8 1/2 ins. in 45 mins.
Initial Shut-in: No blow back.
Final Flow: Weak, surface blow building to 6 ins. in 45 mins.
Final Shut-in: No blow back.

Tool Sample: 65% water, 35% mud w/oil specks

Ph: 8

RW: .43 @ 55 degrees F

Chlorides: 28,000 ppm



**Company: RJM Oil Company,
Inc**
Lease: Alfred #1

SEC: 12 TWN: 18S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1802 GL
Field Name: Tritsch
Pool: Infield
Job Number: 143

DATE April 03 2018

DST #1	Formation: L/KC	Test Interval: 3224 - 3320'	Total Depth: 3320'
	Time On: 07:10 04/03	Time Off: 14:33 04/03	
	Time On Bottom: 09:22 04/03	Time Off Bottom: 12:37 04/03	

Down Hole Makeup

Heads Up: 6.55 FT	Packer 1: 3219 FT
Drill Pipe: 3205.39 FT <i>ID-3 1/2</i>	Packer 2: 3224 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3211 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3293 FT
	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"

Test Tool: 26.16 FT

ID-3 1/2-FH

Total Anchor: 96

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 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): 28 FT

4 1/2-FH



**Company: RJM Oil Company,
Inc
Lease: Alfred #1**

SEC: 12 TWN: 18S RNG: 12W

County: BARTON

State: Kansas

Drilling Contractor: Southwind Drilling,
Inc - Rig 3

Elevation: 1802 GL

Field Name: Tritsch

Pool: Infield

Job Number: 143

DATE
April
03
2018

DST #1

Formation: L/KC

**Test Interval: 3224 -
3320'**

Total Depth: 3320'

Time On: 07:10 04/03

Time Off: 14:33 04/03

Time On Bottom: 09:22 04/03

Time Off Bottom: 12:37 04/03

Mud Properties

Mud Type: Chemical

Weight: 8.6

Viscosity: 68

Filtrate: 6.4

Chlorides: 8,000 ppm



**Company: RJM Oil Company,
Inc**
Lease: Alfred #1

SEC: 12 TWN: 18S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1802 GL
Field Name: Tritsch
Pool: Infield
Job Number: 143

DATE April 03 2018

DST #1 **Formation: L/KC** **Test Interval: 3224 - 3320'** **Total Depth: 3320'**
Time On: 07:10 04/03 Time Off: 14:33 04/03
Time On Bottom: 09:22 04/03 Time Off Bottom: 12:37 04/03

Gas Volume Report

1st Open

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

2nd Open

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

