

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 Recompletion Date _____ 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:	
----------------	-------	---------	------------	--



Musgrove

PETROLEUM CORPORATION
Clafin, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RJM Company
 LEASE BCCJC #2
 FIELD Ames Northwest
 LOCATION SW-SW-NE-SW (1400' FSL&1350' FWL)
 SEC 8 TWSP 18S RGE 11W
 COUNTY Barton STATE Kansas

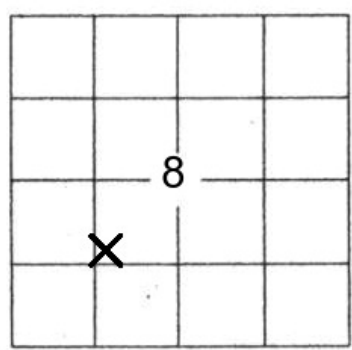
ELEVATIONS
 KB 1837'
 DF _____
 GL 1829'
 Measurements Are All
 From KB

CONTRACTOR Southwind Drilling Co.. (Rig #3)
 SPUD 10-23-2018 COMP 10-29-2018
 RTD 3385' LTD None
 MUD UP 2700' TYPE MUD Chemical

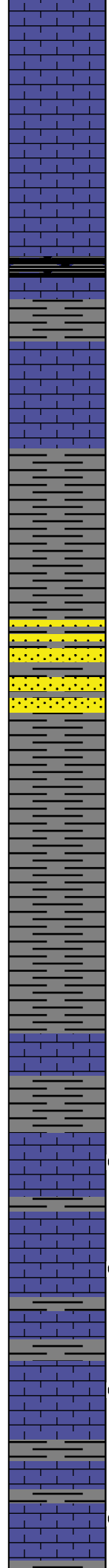
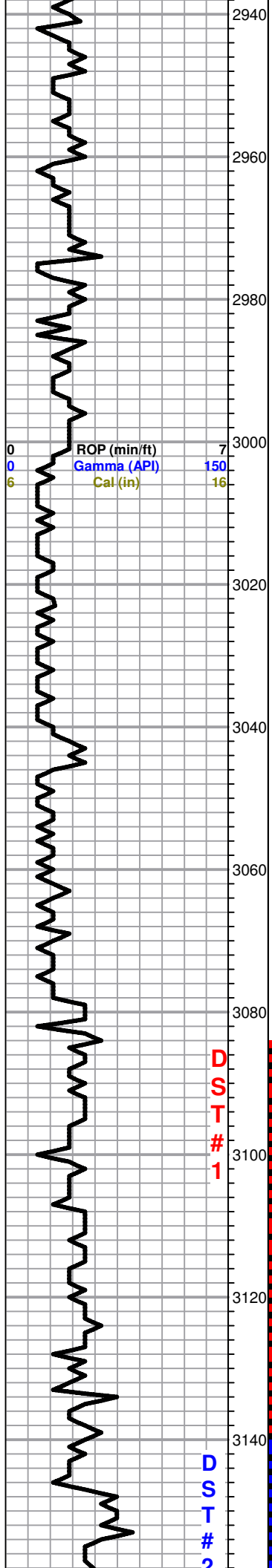
CASING
 SURFACE 8 5/8"@320'
 PRODUCTION 5 1/2"@3378'
 ELECTRICAL SURVEYS
 None

SAMPLES SAVED FROM 2800' TO RTD
 DRILLING TIME KEPT FROM 2800' TO RTD
 SAMPLES EXAMINED FROM 2800' TO RTD
 GEOLOGICAL SUPERVISION FROM 2800' TO RTD
 GEOLOGIST ON WELL Jim Musgrove 2800'-3140' Wyatt Urban 3140'-RTD

FORMATION TOPS	LOG	SAMPLES
Heebner	2974 (-1137)	
Toronto	2988 (-1151)	
Douglas	3002 (-1165)	
Brown Lime	3083 (-1246)	
Lansing	3096 (-1259)	
Base KC	3344 (-1507)	
Conglomerate	3362 (-1525)	
Arbuckle	3377 (-1540)	
RTD	3385 (-1548)	



ROCK TYPES



LS, tan, gry, fxl, foss in pt, poor vis. porosity, no shows

LS, a/a, tr. gry / smky gry, opaque cherts

Heebner 2974.0 (-1137.0)

Sh, black carb

Sh, gry-dk gry

Toronto 2988.0 (-1151.0)

LS, white, gry, chalky --> cherty in pt, dense, no show

Douglas 3002.0 (-1165.0)

Sh, gry/ gryish green, silty

Sh, a/a

Tr. sd. gry, gryish green vfg., mica, poor porosity, no shows

Sh, a/a, tr. pyrite

Sh, gry, gryish

Brown Lime 3083.0 (-1246.0)

LS, tan, brown, fxl, slightly cherty, dense

Lansing 3096.0 (-1259.0)

LS, white, cream, fxl, foss in pts, chlky, tr. brn dk rnn stn, tr. fo, ft. odor

LS, gry, fxl, slightly chalky, few poor p.p. porosity, tr. stain, tr. fo, no odor

LS, cream, gry, foss, scattered vuggy foss. cast porosity(few sub oom), brown stain, sfo, faint odor

LS, tan, buff, chalky, foss, poor developed oom/vuggy porosity, tr. brn stain, spty sfo, odor

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

KB 1837'

DST#1 3085 -3140
30-30-30-45

1st Open:
Weak blow
increasing to 1"

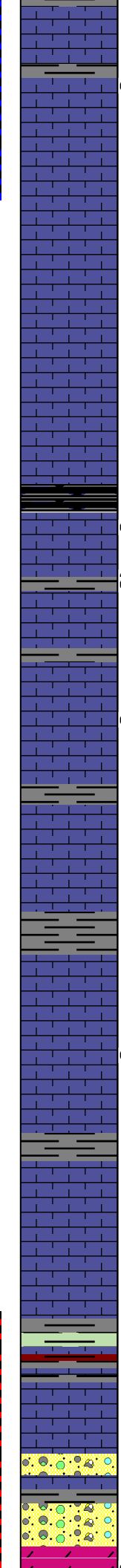
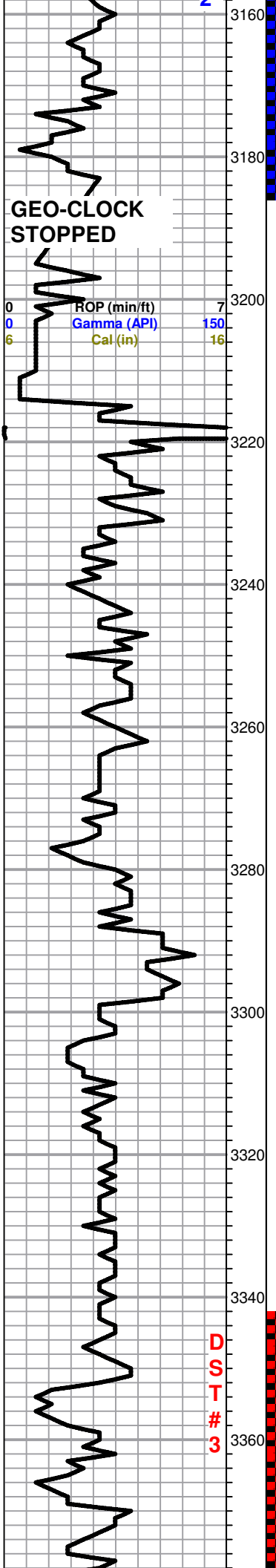
2nd Open:
No blow

Recovery:
8' Mud

Pressures:
ISIP 403 psi
FSIP 459 psi
IFP 34-35 psi
FFP 35-39 psi
HSH 1479-1484 psi

DST#2 3139-3173
30-30-45-60

1st Open:
Weak 1/2" blow



LS, tan, foss, sl. chalky, fr. vuggy / oom type porosity, tr. brn stain, sptty golden brown sfo, fair odor w/ vis. gas bubbles

LS, tan, oom, good vuggy porosity, tr. brn stain on few, nsfo (sheen of oil in sample wtr.), no odor

LS, white, tan, oom good vuggy por. no shows, no odor

LS, white, gry, dense, no shows

Sh, black carb

LS, tan, oom, vuggy porosity, lt. brn stain on few, nsfo, no odor

LS, tan, buff, fxl, dense, poor p.p. type porosity, dk blk stain, nsfo, no odor

LS, white, "frosted", med xln, slightly gran., poor - fr scattered p.p. type porosity, golden brn sfo, faint odor

LS, tan, cream, oom, sl. chalky, poorly developed, vuggy porosity
Tr. LS, white, cream, fxl, dense/ cherty, poor porosity, no shows, no odor

Slug dk gry, waxey

LS, tan, fxl, dense, poor vuggy type porosity, cherty, no shows

LS, tan, white, gry, foss, sl. chlky, poorly developed, oom vuggy porosity, tr. brn stain, nsfo, tr. tan & opaque cherts

Sh, blk carb sh.

LS, tan, ool, poor scattered porosity, sl. chalky, no shows, tr sh. gry & green silty shale

BKC 3344.0 (-1507.0)

Slug sh, gry, dk gry maroon & aqua green shales

Tr. LS, tan, cream, fxl. ool, poorly dev. p.p. porosity. no shows

Conglomerate 3362.0 (-1525.0)

tr. LS, fxl, mar, tinted, medxln no shows, + tr. amber & opaque chert
V. C. cherts & sh. tr. opaque ool chert, soft aqua green sh.

Arbuckle 3377.0 (-1540.0)

Del tan, fxl, dense, poor p.p. type porosity, tr. brn stain to

2nd Open:
Fair; increasing
9.3"

Recovery:
129' GIP

1' Clean Oil

30' SLWC G&OCM
(5%G, 10%O, 2%W, 83%M)

Pressures:
ISIP 234 psi
FSIP 265 psi
IFP 12-15 psi
FFP 15-18 psi
HSH 1478-1488 psi

DST#3 3337-3385
30-45-30-45

1ST Open BOB 6.5 mins.

1st Shutin:
Weak return

2nd Open:
BOB 6 mins.

2nd Shutin:
No blowback

Recovery:
30' GIP

486' SGCO
(10%G, 90%O)

189' Muddy Gassy Oil Tr. water.
(14%G, 60%O, 25%M) 2%W)

Pressures:
ISIP 1097 psi
FSIP 1080 psi
IFP 86-176 psi
FFP 195-289 psi
HSH 1588-1586 psi

3380



Dol. tan, txl, suc. dense, poor vis. porosity, tr. brn stain, tr. sfo, faint odor

Dol. tan, buff, suc. med xln, good inxln porosity, tr. golden brn stain, sfo, good odor

RTD 3385.0 (-1548.0)



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Tripping out of hole with
test tool

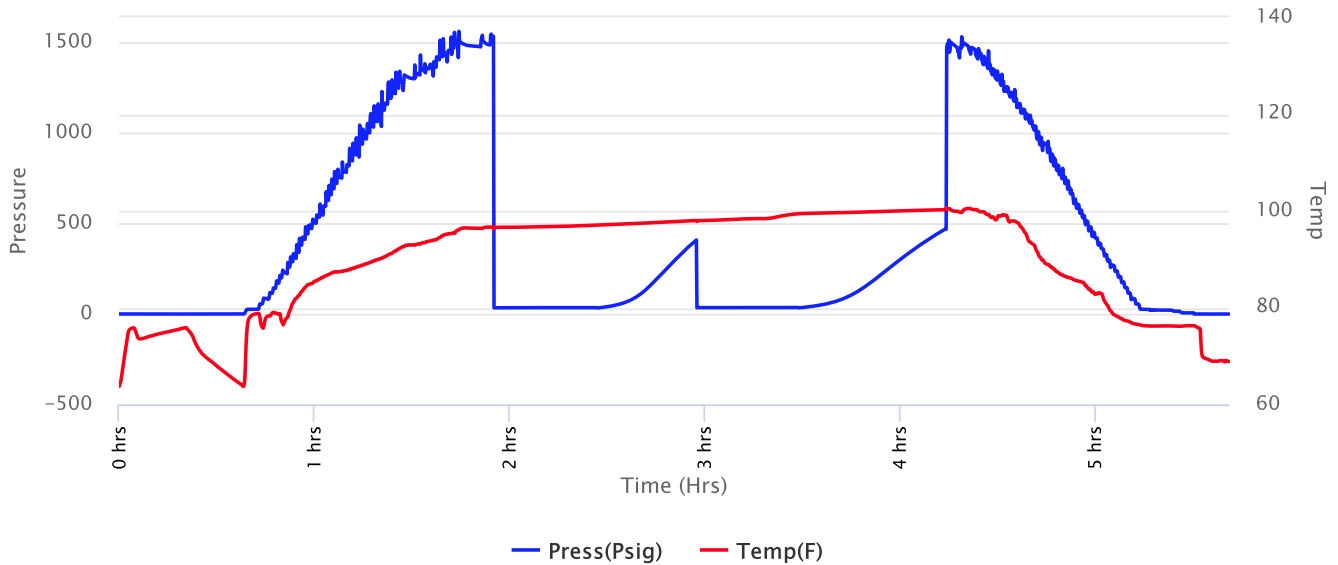
DATE
October
27
2018

DST #1 **Formation:** **Test Interval: 3085 - 3140'** **Total Depth: 3140'**
Time On: 03:31 10/27 Time Off: 00:00 01/01
Time On Bottom: 05:23 10/27 Time Off Bottom: 07:38 10/27

Electronic Volume
Estimate:
8'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 45
Current Reading:	Current Reading:	Current Reading:	Current Reading:
1.00" at 30 min	0" at 30 min	0" at 30 min	0" at 45 min
Max Reading: 1.00"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1829 GL
 Field Name: Ames NW
 Pool: Infield
 Job Number: 256

Operation:
 Tripping out of hole with test tool

DATE
 October
27
 2018

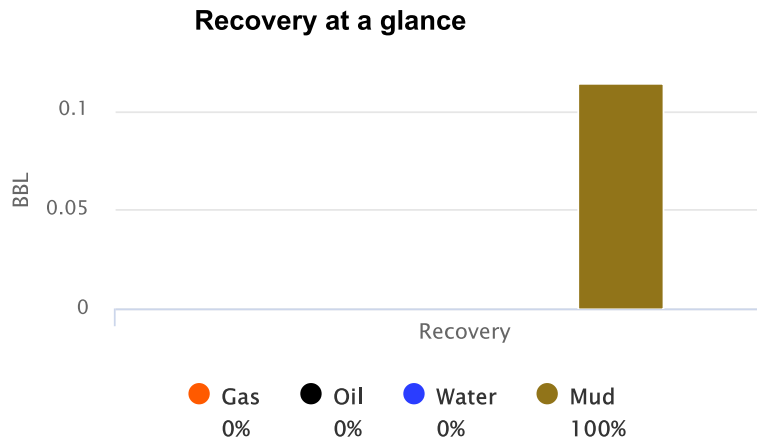
DST #1 **Formation:** **Test Interval: 3085 - 3140'** **Total Depth: 3140'**
 Time On: 03:31 10/27 Time Off: 00:00 01/01
 Time On Bottom: 05:23 10/27 Time Off Bottom: 07:38 10/27

<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
8	0.11384	M	0	0	0	100

Total Recovered: 8 ft
 Total Barrels Recovered: 0.11384

Reversed Out
 NO

Initial Hydrostatic Pressure	1479	PSI
Initial Flow	34 to 35	PSI
Initial Closed in Pressure	403	PSI
Final Flow Pressure	35 to 39	PSI
Final Closed in Pressure	459	PSI
Final Hydrostatic Pressure	1484	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	0.0	%





**Company: RJM Oil Company,
Inc**

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Tripping out of hole with
test tool

DATE
October
27
2018

DST #1	Formation:	Test Interval: 3085 - 3140'	Total Depth: 3140'
	Time On: 03:31 10/27	Time Off: 00:00 01/01	
	Time On Bottom: 05:23 10/27	Time Off Bottom: 07:38 10/27	

BUCKET MEASUREMENT:

1st Open: Weak 1/4" increasing to 1"
1st Close: No blow back
2nd Open: No blow
2nd Close: No blow back

REMARKS:

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



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Tripping out of hole with
test tool

DATE
October
27
2018

DST #1 **Formation:** **Test Interval: 3085 - 3140'** **Total Depth: 3140'**
Time On: 03:31 10/27 Time Off: 00:00 01/01
Time On Bottom: 05:23 10/27 Time Off Bottom: 07:38 10/27

Down Hole Makeup

Heads Up: 7.55999999999997 FT	Packer 1: 3079.69 FT
Drill Pipe: 3067.09 FT <i>ID-3 1/2</i>	Packer 2: 3084.69 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3071.69 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3121 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 55.31	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 1 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.31 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 20 FT <i>4 1/2-FH</i>	



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery & pressures

DATE
October
27
2018

DST #2 **Formation: Lkc** **Test Interval: 3139 - 3173'** **Total Depth: 3173'**
Time On: 15:55 10/27 Time Off: 22:29 10/27
Time On Bottom: 17:25 10/27 Time Off Bottom: 20:40 10/27

Electronic Volume Estimate:
125'

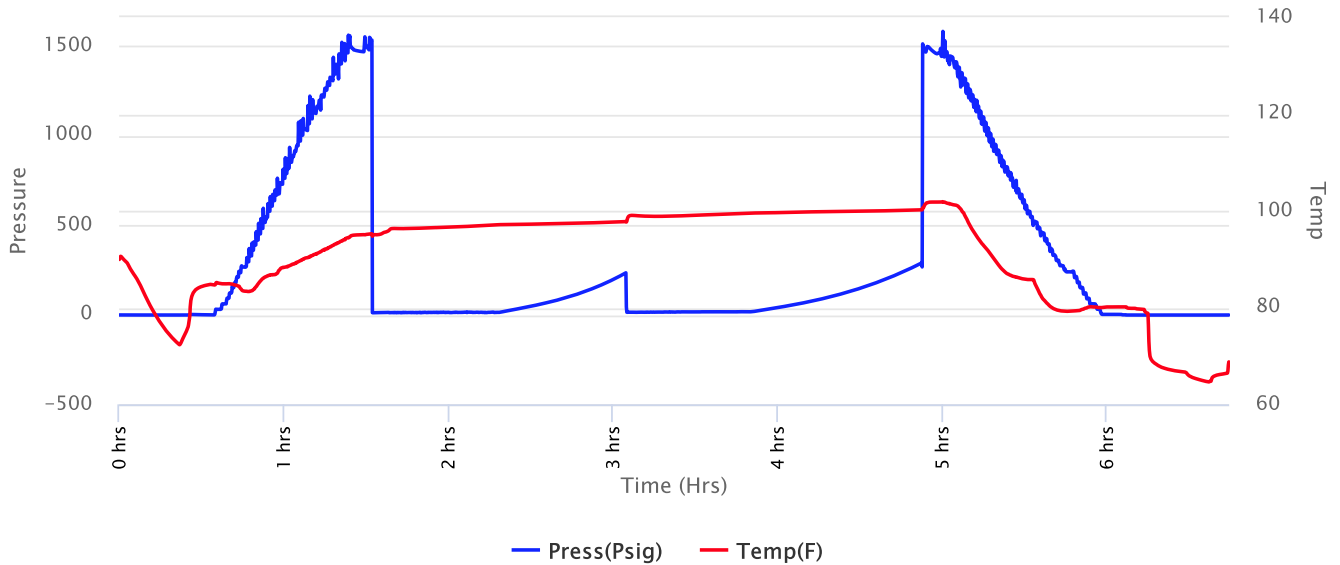
1st Open
Minutes: 45
Current Reading:
6.0" at 45 min
Max Reading: 6.0"

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

2nd Open
Minutes: 45
Current Reading:
9.3" at 45 min
Max Reading: 9.3"

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

Inside Recorder





Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1829 GL
 Field Name: Ames NW
 Pool: Infield
 Job Number: 256

Operation:
 Uploading recovery & pressures

DATE
 October
27
 2018

DST #2 **Formation: Lkc** **Test Interval: 3139 - 3173'** **Total Depth: 3173'**
 Time On: 15:55 10/27 Time Off: 22:29 10/27
 Time On Bottom: 17:25 10/27 Time Off Bottom: 20:40 10/27

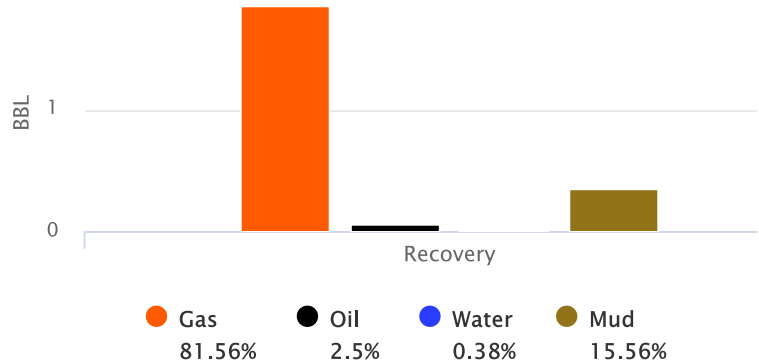
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
129	1.83567	G	100	0	0	0
1	0.01423	O	0	100	0	0
30	0.4269	SLWCSLGCSLOCM	5	10	2	83

Total Recovered: 160 ft
 Total Barrels Recovered: 2.2768

Reversed Out
 NO

Initial Hydrostatic Pressure	1478	PSI
Initial Flow	12 to 15	PSI
Initial Closed in Pressure	234	PSI
Final Flow Pressure	15 to 18	PSI
Final Closed in Pressure	265	PSI
Final Hydrostatic Pressure	1488	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: RJM Oil Company,
Inc**

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery &
pressures

DATE
October
27
2018

DST #2	Formation: Lkc	Test Interval: 3139 - 3173'	Total Depth: 3173'
	Time On: 15:55 10/27	Time Off: 22:29 10/27	
	Time On Bottom: 17:25 10/27	Time Off Bottom: 20:40 10/27	

BUCKET MEASUREMENT:

1st Open: Weak 1/2" blow increasing to 6"
1st Close: No blow back
2nd Open: Good 2"blow increasing to 9.3"
2nd Close: NO BLOW BACK



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery & pressures

DATE
October
27
2018

DST #2 **Formation: Lkc** **Test Interval: 3139 - 3173'** **Total Depth: 3173'**
Time On: 15:55 10/27 Time Off: 22:29 10/27
Time On Bottom: 17:25 10/27 Time Off Bottom: 20:40 10/27

Down Hole Makeup

Heads Up: 16.71 FT	Packer 1: 3134 FT
Drill Pipe: 3130.55 FT <i>ID-3 1/2</i>	Packer 2: 3139 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3126 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 33 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 34	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 33 FT <i>4 1/2-FH</i>	



**Company: RJM Oil Company,
Inc**

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery &
pressures

DATE
October
27
2018

DST #2 Formation: Lkc Test Interval: 3139 - Total Depth: 3173'
3173'
Time On: 15:55 10/27 Time Off: 22:29 10/27
Time On Bottom: 17:25 10/27 Time Off Bottom: 20:40 10/27

Mud Properties

Mud Type: CHEMICAL Weight: 9.1 Viscosity: 45 Filtrate: 8.8 Chlorides: 14,500 ppm



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery & pressures

DATE
October
27
2018

DST #2 **Formation: Lkc** **Test Interval: 3139 - 3173'** **Total Depth: 3173'**
Time On: 15:55 10/27 Time Off: 22:29 10/27
Time On Bottom: 17:25 10/27 Time Off Bottom: 20:40 10/27

Gas Volume Report

1st Open

2nd Open

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

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



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery & pressures

DATE
October
28
2018

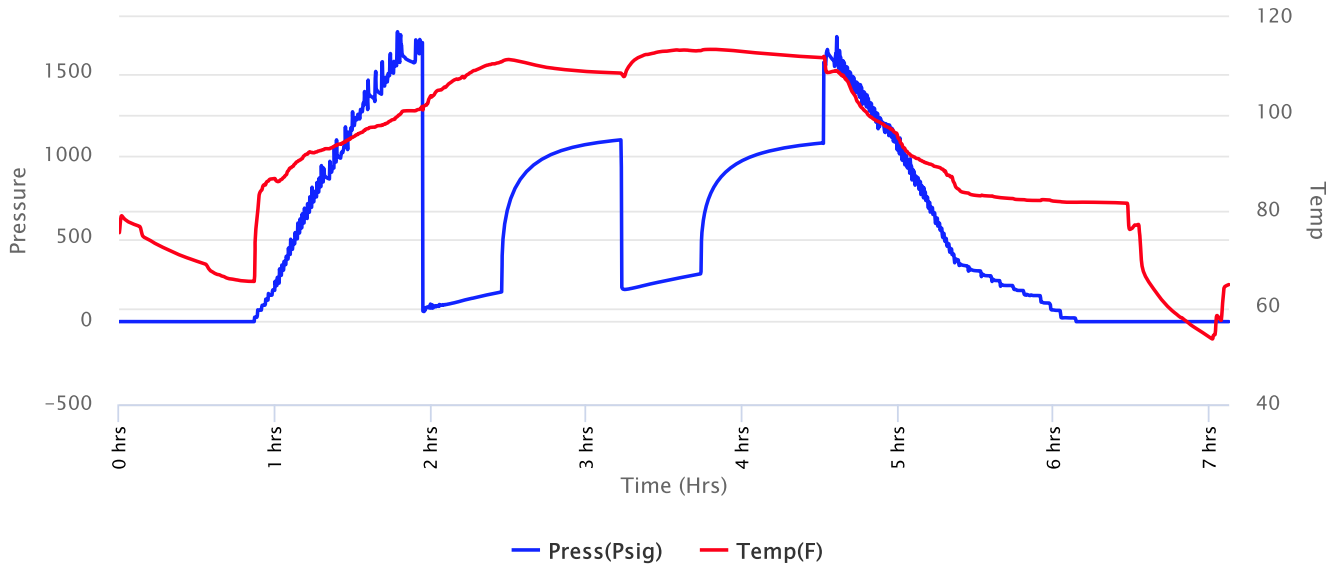
DST #3 Formation: Arbuckle Test Interval: 3337 - 3385' Total Depth: 3385'

Time On: 20:17 10/28 Time Off: 03:12 10/29
Time On Bottom: 22:10 10/28 Time Off Bottom: 00:40 10/29

Electronic Volume Estimate:
776'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 45	Minutes: 30	Minutes: 45
Current Reading: 49.2" at 30 min	Current Reading: 0" at 45 min	Current Reading: 45.4" at 30 min	Current Reading: 0" at 45 min
Max Reading: 49.2"	Max Reading: .25"	Max Reading: 45.4"	Max Reading: 0"

Inside Recorder





Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
 County: BARTON
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1829 GL
 Field Name: Ames NW
 Pool: Infield
 Job Number: 256

Operation:
 Uploading recovery & pressures

DATE
 October
28
 2018

DST #3 Formation: Arbuckle Test Interval: 3337 - 3385' Total Depth: 3385'

Time On: 20:17 10/28 Time Off: 03:12 10/29
 Time On Bottom: 22:10 10/28 Time Off Bottom: 00:40 10/29

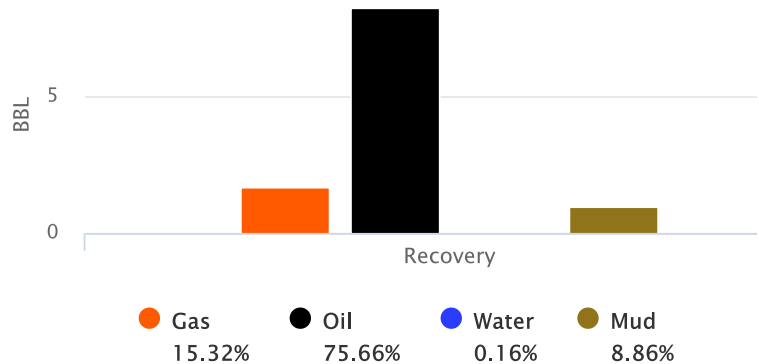
Recovered						
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.4269	G	100	0	0	0
486	6.91578	SLGCO	10	90	0	0
63	0.89649	GCHMCO	20	50	0	30
63	0.89649	SLGCMCO	12	68	0	20
63	0.89649	GCHMCO	20	50	0	30
63	0.89649	SLWCSLGCMCO	10	60	2	28

Total Recovered: 768 ft
 Total Barrels Recovered: 10.92864

Reversed Out
 NO

Initial Hydrostatic Pressure	1588	PSI
Initial Flow	86 to 176	PSI
Initial Closed in Pressure	1097	PSI
Final Flow Pressure	195 to 289	PSI
Final Closed in Pressure	1080	PSI
Final Hydrostatic Pressure	1586	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	1.5	%

Recovery at a glance





**Company: RJM Oil Company,
Inc**

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery &
pressures

DATE
October
28
2018

DST #3 Formation: Arbuckle Test Interval: 3337 - Total Depth: 3385'
3385'
Time On: 20:17 10/28 Time Off: 03:12 10/29
Time On Bottom: 22:10 10/28 Time Off Bottom: 00:40 10/29

BUCKET MEASUREMENT:

- 1st Open: Strong blow off btm bucket 6.5 min
- 1st Close: Weak bb in 5 min inc. To 1/4 dec. Dead 25 min.
- 2nd Open: Strong blow off btm bucket 6 min.
- 2nd Close: No blow back



Company: RJM Oil Company, Inc

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery & pressures

DATE
October
28
2018

DST #3 Formation: Arbuckle Test Interval: 3337 - 3385' Total Depth: 3385'

Time On: 20:17 10/28 Time Off: 03:12 10/29
Time On Bottom: 22:10 10/28 Time Off Bottom: 00:40 10/29

Down Hole Makeup

Heads Up: 7.35999999999997 FT	Packer 1: 3332 FT
Drill Pipe: 3319.2 FT <i>ID-3 1/2</i>	Packer 2: 3337 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3324 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3339 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 48	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 47 FT <i>4 1/2-FH</i>	



**Company: RJM Oil Company,
Inc**

Lease: BCCJC #2

SEC: 8 TWN: 18S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1829 GL
Field Name: Ames NW
Pool: Infield
Job Number: 256

Operation:
Uploading recovery &
pressures

DATE
October
28
2018

DST #3 Formation: Arbuckle Test Interval: 3337 - Total Depth: 3385'
3385'
Time On: 20:17 10/28 Time Off: 03:12 10/29
Time On Bottom: 22:10 10/28 Time Off Bottom: 00:40 10/29

Mud Properties

Mud Type: CHEMICAL Weight: 8.9 Viscosity: 45 Filtrate: 8.8 Chlorides: 10,500 ppm

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1124

Cell 785-324-1041

Date	10-24-18	Sec.	8	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	1:15 AM
------	----------	------	---	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease BCCJC Well No. 2 Location Clafin - 1W to 120th Ave, 1 3/4 S, W/Int Owner 1.2 miles

Contractor Southwind #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.

Type Job Surface

Hole Size D 1/4" T.D. 321' Charge To RSM Company

Csg. 8 5/8" Depth 321' 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 225 60/40 4%CC 2% Gel 1/2#F - seal

Meas Line Displace 19 1/2 BUS

EQUIPMENT

Pumptrk <u>17</u> No.	Cementer <u>David</u>	Common <u>135</u>
	Helper	Poz. Mix <u>85</u>
Bulktrk <u>3</u> No.	Driver <u>Tony</u>	Gel. <u>5</u>
	Driver	Calcium <u>10</u>
Bulktrk <u>p.u.</u> No.	Driver <u>Rick</u>	
	Driver	

JOB SERVICES & REMARKS

Remarks: <u>Cut 100' of Sand</u>	Hulls
Rat Hole	Salt
Mouse Hole <u>Cement did Circulate</u>	Flowseal <u>125#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>240</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface
Mileage 26

X Signature <u>Jay Idrew</u>	Tax
	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 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. 1134

Date	10-29-18	Sec.	8	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	1:30 PM
Lease								Well No.		Owner					
BCCJC								2		1.2 miles west to well					
Contractor								#3		To Quality Oilwell Cementing, Inc.					
Southwind										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										Charge To					
Longstring										RSM Company					
Hole Size								T.D.		Street					
7 7/8"								3385'		City					
Csg. 5 1/2" 15.50 New								Depth		State					
								3382'		The above was done to satisfaction and supervision of owner agent or contractor.					
Tbg. Size								Depth		Cement Left in Csg.					
										43.76'					
Tool								Depth		Shoe Joint					
										43.76'					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
43.76'								43.76'		180 Com 10% Salt 0.5% Gilsomite					
Meas Line								Displace		500 gal mud Clear 48					
								79 1/2 BLS		Common					
EQUIPMENT										180					
Pumptrk 16								No. Cementer		Poz. Mix					
								Helper		Brett					
Bulktrk 15								No. Driver		Gel.					
								Driver		Tony					
Bulktrk P.U.								No. Driver		Calcium					
								Driver		Rick					
JOB SERVICES & REMARKS										Hulls					
Remarks:										Salt 16					
Rat Hole										Flowseal					
Mouse Hole 30 sx										Kol-Seal 850#					
Centralizers 1-9										Mud CLR 48 500 gal					
Baskets 2+6										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
pipe on bottom break Circulation										Handling 205					
Dump 500 gal mud Clear 48, plug Rathde										Mileage					
Hook to 5 1/2" Casing + mix 150 sx Cement															
That down wash pump + lines Displaced										FLOAT EQUIPMENT					
plug w/ 79 1/2 BLS of H2O										Guide Shoe					
Released + held										Rotating head					
Lift pressure 700 #										Centralizer 9					
Land plug to 1500 #										Baskets 2					
										AFU Inserts					
										Float Shoe 1					
										Latch Down 1					
										Pumptrk Charge					
										prod string					
										Mileage 26					
										Tax					
										Discount					
										Total Charge					
Signature															
Joy Shrew															

Thanks

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.