Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1252788

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30458
Name: RJM Company
Address 1: PO BOX 256
Address 2:
City: CLAFLIN State: KS Zip: 67525 + 0256
Contact Person: Brian Miller
Phone: (620) 588-3910
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Clint Musgrove
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☑ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

05/07/2015	05/12/2015	05/12/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-26099-00-00
Spot Description:
SW SE NW NW Sec. 35 Twp. 16 S. R. 12 ☐ East ☑ West
1169 Feet from ☑ North / ☐ South Line of Section
849 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Barton
Lease Name: Boger-Spanier Unit Well #: 1
Field Name: Beaver South
Producing Formation: NA
Elevation: Ground: 1919 Kelly Bushing: 1927
Total Vertical Depth: 3405 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 413 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: 47500 ppm Fluid volume: 500 bbls
Dewatering method used: Evaporated

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: 05/20/2015
☑ **Confidential Release Date:** 05/19/2017
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/26/2015

[redacted]

1252788

Operator Name: RJM Company Lease Name: Boger-Spanier Unit Well #: 1

Sec. 35 Twp. 16 S. R. 12 ☐ East ☑ West County: Barton

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Heebner	-1080	KB
Brown Lime	-1174	KB
Lansing	-1189	KB
Base Kansas City	-1442	KB

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	413	Common	190	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	RJM Company
Well Name	Boger-Spanier Unit 1
Doc ID	1252788

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	413	Common	190	3% cc, 2% gel

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. 1412

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-8-15	35	16	12	Barton	KS		3:00 AM

Location Beaver, 2E, 1½S, En 2

Lease Boger-Spenier Well No. 1

Contractor Southwind 3

Type Job Surface

Hole Size 12¼ T.D. 413

Csg. 8⅝ Depth 413

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 20

Meas Line Displace 25.66 bl

EQUIPMENT

Pumptrk 17 No. Cementer Helper Lonnie

Bulktrk 14 No. Driver Driver Doug

Bulktrk PU No. Driver Driver Travis

JOB SERVICES & REMARKS

Remarks: cement did circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

X Signature Jay Driver

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.

Charge To RJM

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 190 sx 80/20, 3% cc, 2% gel

Common	150
Poz. Mix	40
Gel.	3
Calcium	8
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	201
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	30
Tax	
Discount	
Total Charge	

Quality Oilwell Cementing

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.

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. 941

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-12-15	35	16	12	Barton	KS		5:45 PM

Location Beaver 2E 1½ S Einto

Lease Bager-Spanser — Well No. #1

Contractor Southwind 3

Type Job Plug

Hole Size 7 7/8 — T.D.

Csg. Drill Pipe — Depth

Tbg. Size — Depth

Tool — Depth

Cement Left in Csg. — Shoe Joint

Meas Line — Displace

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.

Charge To RJM

Street

City — State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 240 60/40 4% Gel ¼ fl

EQUIPMENT

Pumptrk 5	No.	Cementer / Helper	David
Bulktrk 3	No.	Driver / Driver	Chad
Bulktrk PU	No.	Driver / Driver	Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole - 30 sx

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

1st Plug @ 3370 w/ 50 sx
2nd Plug @ 820 w/ 50 sx
3rd Plug @ 520 w/ 100 sx
4th Plug @ 40 w/ 10 sx

Common	144
Poz. Mix	96
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	60#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	249
Mileage	

FLOAT EQUIPMENT

8 5/8

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Wood Plug-1

Pumptrk Charge Plug

Mileage 30

Tax

Discount

Total Charge

X Signature [signature]

Quality Oilwell Cementing

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(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:

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(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.

GENERAL INFORMATION

Client Information:

Company: RJM CO.

Contact: BRAD MILLER

Phone: Fax: e-mail:

Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

Well Information:

Name: BOGER/SPANIER #1

Operator: RJM CO.

Location-Downhole:

Location-Surface: S35/16S/12W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: DST #1 CONVENTIONAL

Job Number: J3343

Test Unit:

Start Date: 2015/05/10

Start Time: 21:30:00

End Date: 2015/05/11

End Time: 01:40:00

Report Date: 2015/05/11

Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

Remarks:

RECOVERY: 15' OIL SPECKED MUD

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: STC/Boger/spanier1dst1

TIME ON: 20:30 5/10/15

TIME OFF: 01:40 5/11/15

Company RJM CO. Lease & Well No. BOGER/SPANIER #1

Contractor SOUTHWIND RIG #2 Charge to RJM CO.

Elevation 1919 G.L Formation UPPER LKC Effective Pay _____ Ft. Ticket No. J3343

Date 5/10/15 Sec. 35 Twp. 16 S Range 12 W County BARTON State KANSAS

Test Approved By JIM MUSGROVE Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3104 ft. to 3176 ft. Total Depth 3176 ft.

Packer Depth 3099 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3104 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3107 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3173 ft. Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,500 P.P.M. Drill Pipe Length 3084 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 72 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK DEAD 20 MIN.

2nd Open: NO BLOW (FLUSHED TOOL BUT OF NO HELP)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID RECOVERY: 15' IN DRILL PIPE

TOOL SAMPLE GRINDOUT:100% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 9:45 P.M A.M. P.M. Time Started Off Bottom 12:00 A.M A.M. P.M. Maximum Temperature 99

Initial Hydrostatic Pressure ..... (A) 1480 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 13 P.S.I. to (C) 15 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 307 P.S.I.

Final Flow Period ..... Minutes 30 (E) 16 P.S.I. to (F) 33 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 96 P.S.I.

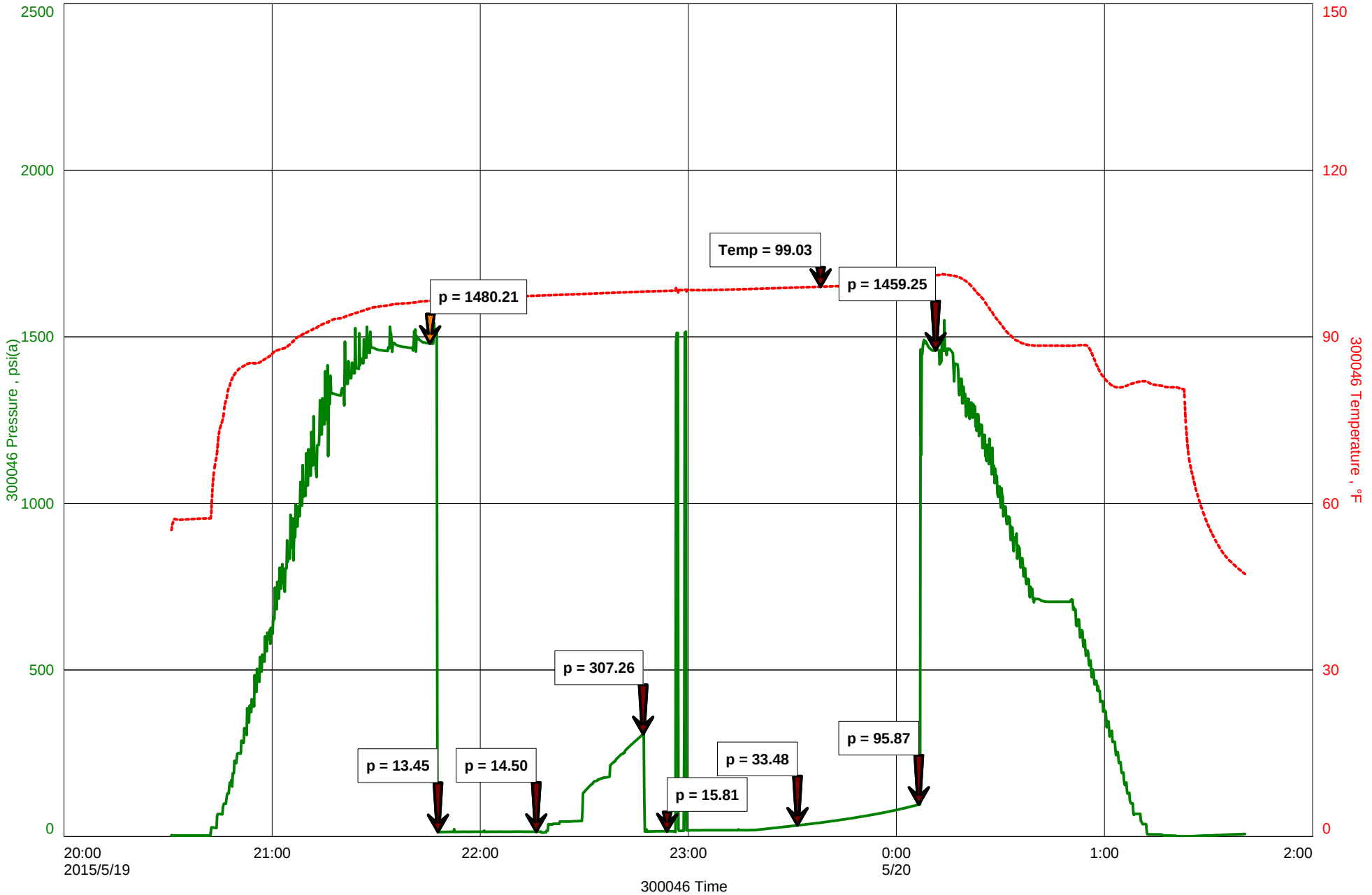
Final Hydrostatic Pressure ..... (H) 1460 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

RJM CO.
Start Test Date: 2015/05/10
Final Test Date: 2015/05/11

BOGER/SPANIER #1

BOGER/SPANIER #1
Formation: UPPER LKC
Job Number: J3343



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC/Boger-Spanier1dst2

Company RJM Oil Company, Inc. Lease & Well No. Boger-Spanier Unit No. 1

Elevation 1919 GL Formation Lower Lansing Effective Pay -- Ft. Ticket No. J3343

Date 5-12-15 Sec. 35 Twp. 16S Range 12W County Barton State Kansas

Test Approved By Clint Musgrove Diamond Representative John C. Riedl

---

Formation Test No. 2 Interval Tested from 3,306 ft. to 3,388 ft. Total Depth 3,388 ft

Packer Depth 3,301 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,396 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,309 ft. Recorder Number 30046 Cap. 6,000 psi.

Bottom Recorder Depth (Outside) 3,385 ft. Recorder Number 13498 Cap. 6,000 psi.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3

Mud Type Chemical Viscosity 50

Weight 9.1 Water Loss 8.0 cc.

Chlorides 3,000 P.P.M.

Jars: Make Sterling Serial Number Not Run

Did Well Flow? No Reversed Out No

Drill Collar Length -- ft I.D. -- in.

Weight Pipe Length -- ft I.D. -- in.

Drill Pipe Length 3,286 ft I.D. 3 1/2 in.

Test Tool Length 20 ft Tool Size 3 1/2-IF in.

Anchor Length 82 ft. Size 4 1/2-FH in.

Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak blow. Died in 15 mins. No blow back during shut-in.

2nd Open: Weak blow. Died in 5 mins. No blow back during shut-in.

Recovered 5 ft. of oil specked mud = .071150 bbls.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 2:00 A.M. Time Started off Bottom 4:00 A.M. Maximum Temperature 103°

Initial Hydrostatic Pressure.....(A) 1588 P.S.I.

Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 18 P.S.I.

Initial Closed In Period.....Minutes 30 (D) 279 P.S.I.

Final Flow Period.....Minutes 30 (E) 18 P.S.I to (F) 19 P.S.I.

Final Closed In Period.....Minutes 30 (G) 195 P.S.I.

Final Hydrostatic Pressure.....(H) 1566 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RJM OIL COMPANY, INC	Job Number	J3343
Contact	CHRIS HOFFMAN	Representative	JOHN RIEDL
Well Name	BOGER-SPANIER UNIT #1	Well Operator	RJM OIL COMPANY, INC
Unique Well ID	DST #2 LOWER LANSING 3306-3388'	Report Date	2015/05/12
Surface Location	S35/16S/12W BARTON COUNTY, KS	Prepared By	JOHN RIEDL
Field	BEAVER SOUTH	Qualified By	CLINT MUSGROVE

Test Information

Test Type	DST #2 CONVENTIONAL
Formation	LOWER LANSING
Well Fluid Type	
Test Purpose	

Start Test Date	2015/05/12	Start Test Time	00:00:00
Final Test Date	2015/05/12	Final Test Time	05:50:00

Test Recovery

RECOVERY: 5' OIL SPECKED MUD

RJM OIL COMPANY, INC
DST #2 LOWER LANSING 3306-3388'
Start Test Date: 2015/05/12
Final Test Date: 2015/05/12

BOGER-SPANIER UNIT #1

BOGER-SPANIER UNIT #1
Formation: LOWER LANSING
Pool: Infield
Job Number: J3343

