



KANSAS CORPORATION COMMISSION 1160204  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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       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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

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

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

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

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

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

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

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report 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 and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	Brush Creek 206
Doc ID	1160204

All Electric Logs Run

Dual Compensated Porosity Log
Microresistivity Log
Sonic Cement Bond Log
Dual Induction Log

# QUALITY OILWELL CEMENTING, INC.

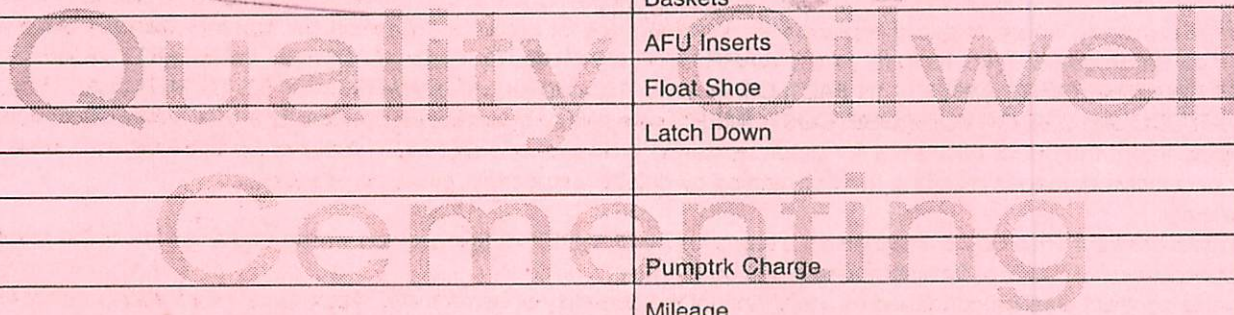
Federal Tax I.D.# 20-2886107

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

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

No. 7962

Date	6-29-13	Sec.		Twp.		Range		County	Graham	State	KS	On Location		Finish	12:00 A.M.
Lease								Location		Wakarusa 2W 4N 1/8E S40					
Bush Creek Unit								Well No.		407/206					
Contractor								Owner							
Mottled								To Quality Oilwell Cementing, Inc.							
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Surface															
Hole Size				T.D.				Charge To							
12 1/4				217				Darrach Oil							
Csg.				Depth				Street							
8 5/8				217											
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
15'								150 lbs 2 1/2" GEL							
Meas Line								Displace							
<b>EQUIPMENT</b>								Common							
Pumptrk		1)		No.		Cementer									
						Helper									
Bulktrk				No.		Driver									
						Driver									
Bulktrk		14)		No.		Driver									
						Driver									
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom Est. Circulation								Handling							
Mix 100 5/8" 11" 5/16"								Mileage							
Cement (Circulation)								<b>FLOAT EQUIPMENT</b>							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature															



# 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. 7409

Date	7-4-13	Sec.	9	Twp.	9	Range	23	County	Graham	State	KS	On Location		Finish	11:00AM
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Location *Wakeeny N to Redline 2w, 4N, 18, 5n 2*

Lease	<i>Brush creek</i>	Well No.	<i>206</i>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>Mallard</i>				Charge To <i>Darrah Oil</i>
Type Job	<i>Top Stage</i>				
Hole Size	<i>7 7/8</i>	T.D.	<i>3915</i>		
Csg.	<i>5 1/2</i>	Depth	<i>3914.31</i>	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.		Shoe Joint	<i>2018</i>	Cement Amount Ordered <i>375 QMDC 1/4 Flow</i>	
Meas Line		Displace	<i>46 1/4 bbl</i>		

**EQUIPMENT**

Pumptrk	<i>15</i>	No.	Cementer		Common	<i>375 QMDC</i>
			Helper	<i>Brett</i>	Poz. Mix	
Bulktrk	<i>13</i>	No.	Driver	<i>Chad</i>	Gel.	
			Driver		Calcium	
Bulktrk	<i>P4</i>	No.	Driver	<i>Travis</i>		
			Driver			

**JOB SERVICES & REMARKS**

Remarks:		Hulls	
Rat Hole	<i>30sx</i>	Salt	
Mouse Hole	<i>15sx</i>	Flowseal	<i>95#</i>
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar	<i>2018</i>	CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<i>375</i>
		Mileage	

**FLOAT EQUIPMENT**

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

*proke circulation plug Rat hole with 30sx and mouse hole with 15sx hooked to 5 1/2 mixed 290sx QMDC 1/4 Flow shut down washed pump and lines released plug and displaced with 46 1/2 bbl fw plug landed and hold cement did circulate lift pressure 700 psi plug landed at 1500 psi*

Pumptrk Charge	<i>prod long string</i>	Tax	
Mileage	<i>44</i>	Discount	
		Total Charge	

X Signature *[Signature]*

*Top Stage*

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 7408

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-4-13	9	9	23	Graham	Ks		6:00 AM

Location Wakeeney N to Redline 2W, 4N, 1/8E, S12

Lease Brush Creek Well No. 206 Owner

Contractor Mallard  
 Type Job Bottom Stage  
 To Quality Oilwell Cementing, Inc.  
 You are hereby requested to rent cementing equipment and furnish  
 cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8 T.D. 3915 Charge To Darrah Oil

Csg. 5 1/2 14# Depth 3914.31 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. 12.45 Shoe Joint 12.45 Cement Amount Ordered 200 com 10% salt 5% gilsonite

Meas Line Displace 95661

**EQUIPMENT**

Pumptrk <u>15</u> No. Cementer Helper <u>Brett</u>	Common
Bulktrk <u>14</u> No. Driver <u>claton</u>	Poz. Mix
Bulktrk <u>14</u> No. Driver <u>Travis</u>	Gel.
	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt <u>18</u>
Mouse Hole	Flowseal <u>75#</u>
Centralizers <u>2, 3, 4, 7, 9, 15, 25, 44, 47</u>	Kol-Seal <u>1000#</u>
Baskets <u>9, 45</u>	Mud CLR 48 <u>500 gal</u>
D/V or Port Collar <u>DV at 2018</u>	CFL-117 or CD110 CAF 38
<u>pipe on bottom broke circulation pumped 500 gal Mud CLR 48 with 10 bbl fw behind it</u>	Sand
<u>Mixed 200sx com 10% salt 5% gilsonite</u>	Handling <u>228</u>
<u>Shutdown washed pump and lines released plug displaced with 95 bbl fw plug landed and held. Dropped dart and opened DV tool and broke circulation</u>	Mileage

**FLOAT EQUIPMENT**

<u>lift pressure 900 psi</u>	Guide Shoe
<u>plug landed at 1,700 psi</u>	Centralizer <u>7 turbos 2 Reg</u>
	Baskets <u>2</u>
	AFU Inserts
	Float Shoe <u>1 with ball</u>
	Latch Down <u>1</u>
	<u>1 DV tool</u>

Pumptrk Charge per Long Spring Bottom Stage  
 Mileage 44

X Signature <u>[Signature]</u>	Tax
	Discount
	Total Charge

# DARRAH OIL

Scale 1:240 Imperial

Well Name: #206 Brush Creek Unit  
 Surface Location: 153 FNL 1690 FWL N2/NW/NE/WV  
 Bottom Location: NA  
 API: 15-065-23950  
 License Number: 5089  
 Spud Date: 6/28/2013 Time: 6:30 PM  
 Region: Graham County KS 9-S-23W  
 Drilling Completed: 7/3/2013 Time: 12:00 PM  
 Surface Coordinates: 153 FNL 1690 FWL  
 Bottom Hole Coordinates: NA & NA  
 Ground Elevation: 2333.00ft  
 K.B. Elevation: 2333.00ft  
 Logged Interval: 2900.00ft To: 3915.00ft  
 Total Depth: 3915.00ft  
 Formation: Lansing-Kansas City  
 Drilling Fluid Type: Chemical Mud

### OPERATOR

Company: Darrah Oil Company  
 Address: 225 N Market, Suite 300  
 Wichita, KS 67202  
 Contact Geologist: Seth Evenson  
 Contact Phone Nbr: (316) 219-3390

Well Name: #206 Brush Creek Unit  
 Location: 153 FNL 1690 FWL N2/NW/NE/WV  
 State: Kansas  
 County: Graham County  
 Field: Brush Creek

### LOGGED BY

Company: Darrah Oil Co.  
 Address: 225 N Market, Suite 300  
 Wichita, KS 67202  
 Phone Nbr: (316) 219-3390  
 Logged By: Geologist Name: Seth Evenson

### CONTRACTOR

Contractor: Mallard JV  
 Rig #: Standard  
 Rig Type: Monitor Double  
 Spud Date: 6/28/2013 Time: 6:30 PM  
 TD Date: 7/3/2013 Time: 12:00 PM  
 Rig Release: 7/4/2013 Time: 11:00 AM

### ELEVATIONS

K.B. Elevation: 2333.00ft  
 Ground Elevation: 2328.00ft

### CASING SUMMARY

Surface	Intermediate	7.88 in
Size	Set At	Type
Surf Casing: 8.625 in	217 ft	# of Joints
Int Casing: NA in	NA ft	Drilled Out At
Prod Casing: 5.5 in	3912 ft	6/29/2013 8:00 AM
		7/11/2013 12:00 PM

### CASING SEQUENCE

Type: Hole Size: 8.625 in Casing Size: 5.5 in At: 0.00 ft

### OPEN HOLE LOGS

Logging Company: Pioneer D  
 Logging Engineer: D. Martin  
 Wireline: 7/7/2013 Time Spent: 4  
 Log Type: Truck # 3 # Logs Run: 3  
 Log Run Successful: 3

### LOGS RUN

Tool	Logged Interval	Log Interval	Hours	Remarks	Run #
DCP	0.00ft	3910.00ft	0.00		1
DI	217.00ft	3909.00ft	0.00		2
Micro Res	217.00ft	3909.00ft	0.00		1

### LOGGING OPERATION SUMMARY

Date: 9/17/2013 From: 0.00ft To: 3910.00ft  
 Description of Operation: GR, Comp Neat, Comp Dens, DI, SP, Micro Res, Caliper

### NOTES

Perforated H zone 3775-3780'; I zone 3798'-3802' & K zone 3826'-3838' on 7/12/2013. Acidized & POP.  
 Highly recommended testing through perforations:  
 D zone from 3685'-3693'  
 F zone from 3715'-3717'  
 Upper G zone from 3724'-3730'  
 Secondary recommended perforating:  
 B zone from 3678'-3680'  
 L zone from 3645'-3659'  
 Lastly may perforate:  
 Upper 2' of Lansing from 3646'-3648'  
 Pleasantor from 3887'-3890'

ROCK TYPES			
Anthroprim	Dolomite	Shale	Shale
Coal	Limestone	Shale	Oil Grout
	Unit #4-7	Shale	

### STRINGER

Limestone

### ACCESSORIES

Other symbols

### CH SHOWS

- Even Sin
- Spotted Sin 50 - 75 %
- Spotted Sin 25 - 50 %
- Spotted Sin 1 - 25 %
- Questionable Sin
- Dead Oil Sin
- Fluorescence

