

Kansas Corporation Commission Oil & Gas Conservation Division

160220

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 #	API No. 15			
Name:	Spot Description:			
Address 1:	SecTwpS. R			
Address 2:	Feet from North / South Line of Section			
City: State: Zip:+	Feet from East / West Line of Section			
Contact Person:	Footages Calculated from Nearest Outside Section Corner:			
Phone: ()	□NE □NW □SE □SW			
CONTRACTOR: License #	County:			
Name:	Lease Name: Well #:			
Wellsite Geologist:	Field Name:			
Purchaser:	Producing Formation:			
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:			
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:			
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt			
Operator:				
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)			
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:			
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:			
Commingled Permit #:	Operator Name:			
Dual Completion Permit #:	Lease Name: License #:			
SWD Permit #:	QuarterSec TwpS. R East West			
ENHR Permit #:	County: Permit #:			
GSW Permit #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date				

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

Side Two



Operator Name:			Lease	Name:			Well #:		
Sec Twp	S. R	East West	County	/:					
INSTRUCTIONS: Show time tool open and close recovery, and flow rates ine Logs surveyed. Atta	ed, flowing and shut- if gas to surface tes	in pressures, whether t, along with final char	shut-in pres	sure reach	ed static level,	hydrostatic press	sures, bottom h	ole tempe	erature, fluid
Drill Stem Tests Taken (Attach Additional Sh	eets)	Yes No		Log	Formation	n (Top), Depth an	d Datum	□ s	ample
Samples Sent to Geolog	,	☐ Yes ☐ No		Name			Тор	D	atum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)		Yes No Yes No							
List All E. Logs Run:									
		CASIN Report all strings se	G RECORD	New	Used	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei	ight	Setting Depth	Type of Cement	# Sacks Used		nd Percent
	Diffied	Set (III O.D.)	LDS.	/ I t.	Берш	Cement	Osed	Ac	luitives
		ADDITION	AL CEMENTI	NG / SQUE	EZE RECORD				
Purpose: —— Perforate —— Protect Casing —— Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks	s Used		Type and F	Percent Additives		
Plug Off Zone									
Shots Per Foot	PERFORATIO Specify Fo	N RECORD - Bridge Plootage of Each Interval P	ugs Set/Type erforated			cture, Shot, Cement nount and Kind of Ma		d	Depth
TUBING RECORD:	Size:	Set At:	Packer A	At:	Liner Run:	Yes No			
Date of First, Resumed Pr	roduction, SWD or ENH	R. Producing Me	ethod:	ng Ga	as Lift	ther (Explain)			
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf	Water	Bk	ols. (Gas-Oil Ratio		Gravity
DISPOSITION	N OF GAS:		METHOD OF				PRODUCTIO	ON INTERV	AL:
Vented Sold	Used on Lease	Open Hole	Perf.	Dually C (Submit AC		nmingled mit ACO-4)			
(If vented, Subm	nit ACO-18.)	Other (Specify)							

Form	ACO1 - Well Completion					
Operator	Darrah, John Jay, Jr.					
Well Name	Brush Creek Unit 403					
Doc ID	1160220					

Tops

Name	Тор	Datum
Heebner	3668	-1271
Lansing	3708	-1318
Lansing 'D'	3752	-1358
Kansas City 'H'	3837	-1443
Base KC	3923	-1529
Marmaton	3978	-1584
Arbuckle	4232	-1838
RTD	4247	-1853

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. 7952

1 20.13	Sec.	Twp.	Range		County	State V	On Location	Finish		
Date (0-20-13	7_	17	4		ham	1/21: 5	7111	8145pm		
Brush Creek (Mit	- [ii .		on Wakeei	nay led line]	W_5/V /2	E//JA TO		
Lease	7		Well No. 40_	<u> </u>	Owner To Quality Oilwell Cementing, Inc.					
Contractor Malac	ע		· · · · · · · · · · · · · · · · · · ·		You are here	by requested to rent	cementing equipmer			
Type Job Surtices	2	ļ	<u> </u>		Charge	d helper to assist owr	ner or contractor to o	lo work as listed.		
Hole Size		T.D.	218		To L)arrah O.	<u>, </u>			
Csg. \$/5/8	·	Depth	218		Street					
Tbg. Size		Depth			City		State			
Tool		Depth			The above wa	s done to satisfaction ar	nd supervision of owne	r agent or contractor.		
Cement Left in Csg. 15		Shoe J	oint		Cement Amo	unt Ordered /52	com 34	CC JUKE		
Meas Line		Displac	. 13BC				······································			
	EQUIPM	<u> </u>	·		Common/	50				
Pumptrk 15 No. Cemer		w'9_			Poz. Mix					
Bulktrk No. Driver	7050				Gel. 3					
Bulktrk No. Driver	Hea	th			Calcium 5					
JOB SEI	RVICES	& REMA	RKS		Hulls					
Remarks:	-				Salt					
Rat Hole					Flowseal					
Mouse Hole					Kol-Seal					
Centralizers					Mud CLR 48					
Baskets						D110 CAF 38				
D/V or Post Collar		-858a.			Sand					
85/200 hours	L and	/رد	Ter Jaking	2 .5.	Handling 1	B				
My Land			.0		Mileage	<i>O</i>				
110/150	<i>Ul</i>	JACA	-		cage	FLOAT EQUIPME	Ø			
June 201	7	J.L	ا د د		Guide Shoe	***				
<u>Cement</u> C	V 124	1/24-16	<i></i>		Centralizer					
			ノーーー		Baskets	05/2/11				
					AFU Inserts	8 1/8 Swage	77 .255400.			
))	\$62		O Property S.			
		r en Ugarran) (37 }}	Float Shoe		<u> </u>			
				<u> </u>	Latch Down			 		
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	Sec		* 1534 - 1000 - 1000 -			70		 		
			<u> </u>		Pumptrk Char		<u> </u>	 		
					Mileage 44	· ~**	Tax			
	*.									
X							Discount			
X Signature							Total Charge	<u> </u>		

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. 7959

	,							
	Sec.	Twp.	Range	٠ (County	State	On Location	Finish
Date 6-28-13				Core	cham	KS		1.15 A.m.
Quel Cons	٠, ١,	L		Locati	on Wekee	new v (2):	ne 2W3N	YRE Nint
Leaserush Greek 1	JAI	F	Well No. 40_	3	Owner			
Contractor Mallara				To Quality O	ilwell Cementing, Inc	C.		
Type Job 2 Stage	,	Rat	tom Sta	age.	You are here cementer an	eby requested to ren ad helper to assist ov	t cementing equipment vner or contractor to do	and furnish work as listed.
Hole Size 778		T.D.	41	<u> </u>	Charge A	2.1		
Csg. 5 /2 14#		Depth	47 41		To J	arran co i		
Tbg. Size		Depth	10.17		Street City		State	
Tool Dy Tool		Depth	2100			as done to estisfaction		agent or contractor
	3.41	,			1	ount Ordered 700	and supervision of owner	agent or contractor.
	<u> </u>	Shoe J			Centent Am	built Oldered	com 10/000	14 Sh CIBBA
Meas Line	EQUIPA	Displac	103741	BL				al Mid Clear
No. Ceme		i a	1		Common	<i>0</i> 0		
Pumptrk / Helpe	77	/			Poz. Mix		·	
Bulktrk Driver		/			Gel.			
Bulktrk / No. Driver		/ ton			Calcium	····		
JOB SE	RVICES	& REMA	ARKS		Hulls			
Remarks:					Salt /8			·
Rat Hole					Flowseal	(44)		
Mouse Hole					Kol-Seal	1000#		
Centralizers 3.6.8	10.1	2.1	3.16,5	254	Mud CLR 48	500 gol	,	
Baskets 5	50				1	CD110 CAP 38		
D/V or Port Collar #5	20-	2108	?		Sand			
5/2 Set@ 42	44.	€5+/	in latio	n å	Handling 2	28		
Pums social	mud C	lary	IOBL SDA	N200	Mileage			
Cement 5/2W	.¥h	Jrg25#		125	77	FLOAT EQUIP	388 8°	
Nis Slace Pha	Du	lange	0@ 1.500#.	<i>IF E</i>	Guide Shoe		*	
Release Ryssin	\	<u></u>		422	Centralizer	7 Turbos	2 Regulal	
MAD Bromb &		7	50 L		Baskets	7		
				- 43	-AFU Inserts	DU TOOL	70 2000	
(in white	41	6.05	<u> </u>	. <i>V</i>	Float Shoe	7 /2 /		
		PORS		2	Latch Down	7		
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<u> </u>	<u> Sangaran</u>	Page 100		\$ \$\dag{\alpha}_{\alpha}\alpha_{\alpha}	11	arge product	mg strug	57094
	· · · · · · · · · · · · · · · · · · ·	 		• :	Mileage	<i>'</i>	Tax	-
					-			
X Surgare	-				4		Discount	
Signature							Total Charge	

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. 7960

	Sec.	Twp.	Range	(County	State	On Location	Finish	
Date 6-28-13				Gra	Eham	KS		6.45 p.m.	
0 . 1		_		Locati	on 4 Jukeen	ex Restine In	33N 1/8E N	Vinto	
Brosh Geek	Unit		Well No. 403		Owner				
Contractor Maslard					To Quality O	ilwell Cementing, Inc).	A	
Type Job A Too!	Toi	Stage		cementer an	d helper to assist ow	cementing equipmen oner or contractor to de	t and turnish o work as listed.		
Hole Size 778		T.D.	4250		Charge /	arrah Oil			
Csg. 5 1/2 14#		Depth	4244		Street	4.12.10.1			
Tbg. Size		Depth			City		State		
Tool DU Tool		Depth	2108			s done to satisfaction a	and supervision of owner	r agent or contractor.	
Cement Left in Csg.	- 1	Shoe J			1	ount Ordered 37	5 OMDC 14	IALIO	
Meas Line		Displac	=51/zi	34			-1		
	EQUIPM	·			Common 3	75 OMDCE	4 street		
Pumptrk No. Ceme	er 🥠	کے ۔			Poz. Mix				
Bulktrk No. Drive	r	1			Gel.				
Bulktrk 13 No. Drive	CHI	jert.			Calcium				
JOB SI	ERVICES 8	REMA	RKS		Hulls				
Remarks:					Salt				
Rat Hole 3056C			-		Flowseal 95#				
Mouse Hole 155K					Kol-Seal				
Centralizers					Mud CLR 48	B			
Baskets					CFL-117 or 0	CD110 CAF 38			
D/V or Port Collar		-8.23 ₀			Sand				
Cement Ratho	Exm	usch	ut -		Handling 3	75	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Coment to	Stage	211	# 3300	K/	Mileage				
Displace Phi	a. Pl	ia la	Ne Q	//		FLOAT EQUIPE	6060	% .	
1500#. Held	2 As	ase I	Pessore/		Guide Shoe				
LAV.					Centralizer				
	1			***	Baskets				
(Ement	mer	CAR	بر الم	k 22	AFU inserts	V . 3 () 3 ()	7 27 20		
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					Pumptrk Cha	arge Dr. D Lou	Story	Stage	
	- 200 App 000 550°			221	Mileag		- July	- Jung	
							Tax		
					1		Discount	:	
X Signature					1		Total Charge	,	
					_		-	<u> </u>	



john jay darrah jr

9 9s 23w graham

p.o. box 2786 w ichta, ks 67201

Job Ticket: 53821 DST#: 1

jim svaty

2389.00 ft (CF)

41

brush creek unit 403

Test Start: 2013.06.24 @ 12:45:00 ATTN: seth evanson

Tester:

Unit No:

GENERAL INFORMATION:

Formation: LKC A - F

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: 2394.00 ft (KB)

Time Tool Opened: 15:10:30 Time Test Ended: 20:47:00

Interval: 3715.00 ft (KB) To 3778.00 ft (KB) (TVD) Reference Elevations: 2394.00 ft (KB)

Total Depth: 3778.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 3742.00 ft (KB) 113.21 psig @ Capacity: 8000.00 psig

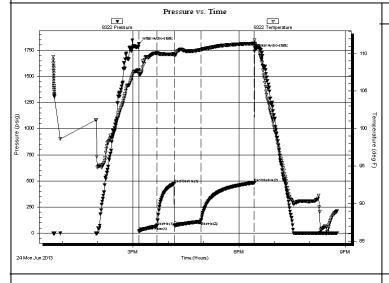
Start Date: 2013.06.24 End Date: 2013.06.24 Last Calib.: 2013.06.24 Start Time: 12:45:01 End Time: 20:46:50 Time On Btm: 2013.06.24 @ 15:10:20 Time Off Btm: 2013.06.24 @ 18:26:10

TEST COMMENT: 30-IFP- Surface Blow Building to 5 3/4in.

30-ISIP- No Blow

45-FFP-Surface Blow Building to 4 3/4in

90-FSIP-No Blow



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1808.79	107.80	Initial Hydro-static
1	19.11	107.23	Open To Flow (1)
31	67.17	110.07	Shut-In(1)
60	475.33	109.91	End Shut-In(1)
61	77.69	109.76	Open To Flow (2)
105	113.21	110.50	Shut-In(2)
196	484.10	111.34	End Shut-In(2)
196	1740.43	111.78	Final Hydro-static
		1	

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WOCM 10%w 20%o 70%m	0.10
120.00	OWCM 5%o 35%w 60%m	0.59
60.00	OWCM 5%o 45%w 50%m	0.30
0.00	60 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 53821 Printed: 2013.06.25 @ 01:23:23



FLUID SUMMARY

john jay darrah jr

9 9s 23w graham

p.o. box 2786 w ichta, ks 67201

brush creek unit 403

Job Ticket: 53821

DST#: 1

ATTN: seth evanson

Test Start: 2013.06.24 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: Ib/gal Cushion Length: ft Water Salinity: 32000 ppm

Viscosity: sec/qt Cushion Volume: bbl

Water Loss: in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WOCM 10%w 20%o 70%m	0.098
120.00	OWCM 5%o 35%w 60%m	0.590
60.00	OWCM 5%o 45%w 50%m	0.295
0.00	60 GIP	0.000

Total Length: 200.00 ft Total Volume: 0.983 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .175 @ 86

Trilobite Testing, Inc Ref. No: 53821 Printed: 2013.06.25 @ 01:23:24

95

(A geb) enutsreqmeT 0 7 110

105

85 85

90

Trilobite Testing, Inc

Ref. No:

53821



john jay darrah jr

9 9s 23w graham

p.o. box 2786 w ichta, ks 67201

ATTN: seth evanson

brush creek unit 403 Job Ticket: 53822

Test Start: 2013.06.25 @ 13:50:00

41

Reference Elevations:

Unit No:

GENERAL INFORMATION:

LKC "G-K" Formation:

Deviated: No Whipstock: 2394.00 ft (KB)

Time Tool Opened: 16:36:30 Time Test Ended: 23:55:00

Interval: 3758.00 ft (KB) To 3925.00 ft (KB) (TVD)

Total Depth: 3925.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset) Tester: jim svaty

> 2394.00 ft (KB) 2389.00 ft (CF)

DST#: 2

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

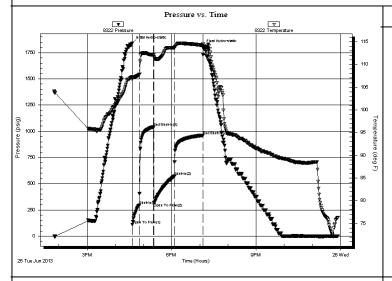
Press@RunDepth: 574.55 psig @ 3760.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2013.06.25 End Date: 2013.06.25 Last Calib.: 2013.06.26 Start Time: 13:50:01 End Time: 23:54:40 Time On Btm: 2013.06.25 @ 16:36:10

Time Off Btm: 2013.06.25 @ 19:06:50

TEST COMMENT: 15-IFP- BOB in 1min, 45sec.

30-ISIP- BOB in 16min. 45-FFP- BOB in 1min. 45sec. 60-FSIP- BOB in 8min.



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1839.61	107.18	Initial Hydro-static
1	111.46	106.72	Open To Flow (1)
16	297.94	107.72	Shut-In(1)
46	1039.55	112.07	End Shut-In(1)
46	317.67	111.53	Open To Flow (2)
90	574.55	113.65	Shut-In(2)
151	961.88	114.23	End Shut-In(2)
151	1804.62	114.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)	
688.00	GMCO 20%m 30%g 50%o	6.93	
188.00	GMCO 10%m 45%g 45%o	2.64	
563.00	GMCO 10%m 20%g 70%o	7.90	
62.00	GMCO 30%g 30%m 40%o	0.87	
79.00	GOCM 10%g 20%o 70%m	1.11	
0.00	1060 GIP	0.00	
* Recovery from multiple tests			

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ref. No: 53822 Trilobite Testing, Inc. Printed: 2013.06.26 @ 07:37:18



FLUID SUMMARY

ppm

DST#: 2

john jay darrah jr

9 9s 23w graham

Job Ticket: 53822

p.o. box 2786 w ichta, ks 67201

brush creek unit 403

Water Salinity:

ATTN: seth evanson Test Start: 2013.06.25 @ 13:50:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 35 deg API

Mud Weight: Ib/gal Cushion Length: ft

Viscosity: sec/qt Cushion Volume: bbl

Water Loss: in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
688.00	GMCO 20%m 30%g 50%o	6.927
188.00	GMCO 10%m 45%g 45%o	2.637
563.00	GMCO 10%m 20%g 70%o	7.897
62.00	GMCO 30%g 30%m 40%o	0.870
79.00	GOCM 10%g 20%o 70%m	1.108
0.00	1060 GIP	0.000

Total Length: 1580.00 ft Total Volume: 19.439 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 53822 Printed: 2013.06.26 @ 07:37:20

- 75

80

Ω 8 90

9

Temperature (deg F)

105

100

110

115

Trilobite Testing, Inc

Ref. No:

53822