

Co	nfiden	tiality	/ Requested:
	Yes	N	lo

#### Kansas Corporation Commission Oil & Gas Conservation Division

1209580

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from
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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
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:	Producing Formation:  Elevation: Ground: Kelly Bushing: Feet  Total Vertical Depth: Plug Back Total Depth: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
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 #:	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:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	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
Geologist Report Received
UIC Distribution
ALT I I II Approved by: Date:

Page Two



Operator Name:				Lease N	Name:			_ Well #:		
Sec Twp	S. R	East	West	County	:					
	ow important tops of fo ing and shut-in pressu o surface test, along wi	res, whe	ther shut-in pre	ssure reacl	hed stati	c level, hydrosta	tic pressures, bo			
Final Radioactivity Logilles must be submitted						gs must be ema	iled to kcc-well-lo	ogs@kcc.ks.go	v. Digital	electronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No			3	n (Top), Depth a			Sample
Samples Sent to Geol	ogical Survey	Ye	es No		Name	9		Тор	L	Datum
Cores Taken Electric Log Run		☐ Ye								
List All E. Logs Run:										
			CASING	RECORD	☐ Ne	w Used				
		Repo				rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		e Casing (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
									<u> </u>	
Purpose	Depth					EEZE RECORD				
Purpose: Perforate	Top Bottom	Туре	of Cement	ement # Sacks Used Type a			Type and I	Percent Additives		
Protect Casing Plug Back TD										
Plug Off Zone										
Did you perform a hydrau	ilic fracturing treatment or	this well?	,			Yes	No (If No, sk	ip questions 2 ar	nd 3)	
	otal base fluid of the hydra		•		•			ip question 3)		
Was the hydraulic fractur	ing treatment information	submitted	to the chemical of	disclosure reg	gistry?	Yes	No (If No, file	out Page Three	of the ACC	)-1)
Shots Per Foot			D - Bridge Plug Each Interval Perf				cture, Shot, Cemen		d	Depth
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth Flowing	nod:	g $\square$	Gas Lift C	other (Explain)			
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	er Bi	ols.	Gas-Oil Ratio		Gravity
DIODOCITIO	ON OF CAS:			AETLIOD OF	COMPLE	TION		BDOD! IOT!	או ואודכטי	
Vented Sold	ON OF GAS:  Used on Lease		) Open Hole	METHOD OF Perf.	Dually	Comp. Con	nmingled	PRODUCTIO	YN INTEK	/AL.
(If vented, Sub			Other (Specify)		(Submit A	ACO-5) (Subi	mit ACO-4)			

## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 6-23	Home Office P.O. B	ox 32 Russell, KS 67665 No.	4294
Date DEPOSE 34	9 24 Gra	County State On Location  ham K5	3:15 pm
Lease Herman Trust W	/ell No. #4-34 Locati	on Wakeeny Ks N to Redline	Rd, GW
Contractor Mustin Dallin	of Pig#16	Owner 5/5	
Type Job Surface	٠	To Quality Öilwell Cementing, Inc. You are hereby requested to rent cementing equipmen	t and furnish
Hole Size 124"	T.D. 220'	cementer and helper to assist owner or contractor to d	o work as listed.
Csg. 85/8" 23 H New	Depth 219'	Charge Phillips Exploration	
Tbg. Size	Depth	Street	
Tool	Depth	City State.	
Cement Left in Csg. 15	Shoe Joint 15	The above was done to satisfaction and supervision of owner	r agent or contractor.
Meas Line	Displace 13 BBLS	Cement Amount Ordered \ 50 5x Common 3%	CC1%Gel
EQUIPM			
Pumptrk No. Cementer No. Helper	ale 3	Common \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Bulktrk 8 No. Driver C 5C	0 3	Poz. Mix	
Bulktrk pool on Driver Driver	<u>'</u> 3	Gel. 3	<u> </u>
JOB SERVICES	& REMARKS	Calcium 5	
Remarks: (cmest did	Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	<u> </u>
Centralizers		Kol-Seal	
Baskets	·	Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
Cement disk	Circulater	Handling 158	
		Mileage	~
<u>used 8%"</u>	Swedge	FLOAT EQUIPMENT	<u> </u>
		Gülde Shoe	
		Centralizer	
		Baskets	
		AFU inserts	
		Float Shoe	
		Latch Down	
		Pumptrk Charge Surface	
		Mileage 38	
		Tax	
	<u> </u>	Discoun	
Signature Acc O. A.	ول	Total Charge	-
· <i>C</i> )			

## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Call 795-324-1041

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

No. 4300

Cell 765-324-1041		
Date 6-28-2010 Sec. 34	Twp. Range G	County State On Location Finish  Aham  State  On Location
Lease Herman trust "		ation Wakeeny Ks Ntoked line Rd, 62W
Contractor Muffin #16	<i>,</i>	Owner 5/5
Type Job Production	(yot)	To Quality Oilwell Cementing, Inc.  You are hereby requested to rent cementing equipment and furnish
Hole Size 77/8"	T.D. 4150'	cementer and helper to assist owner or contractor to do work as listed.
Csg. St. 14th New	Depth 4/47.181	Charge Phillips exploration
Tbg. Size ;	Depth	Street
Tool DU Tool	Depth 2181	City State
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace 53.25BBL	
EQUIPN	MENT	500 gal Mind Clear 48
Pumptrk 5 No. Cementer Helper	andon 3	— Common 400
Bulktrk No. Driver OC	Cy 3	Poz. Mix
Bulktrik Diver No. Driver V. O	C, 3	Gel.
JOB SERVICES	& REMARKS	Calcium
Remarks: (S)	•	Hulis
Rat Hole 303	<u> </u>	Salt
Mouse Hole \S 5\X	·.	Flowseal / O
Centralizers		Kol-Seal
Baskets	0	Mud CLR 48 500 gal
D/V or Port Collar 2\81	48th 54.	CFL-117 or CD110 CAF 38
		Sand
aloe or bottom to	ceal Ciculation	η Handling
oump soo ga	1 Musi Clear 48	Mileage Mileage
DWMD 5 1313	of water due	FLOAT EQUIPMENT
11 2 JP . "***********************************		Guide Shoe
	5 3 5 5 5x	Centralizer
Give be child	en wash up.	Baskets
Hook to Cacha o	and displaced wi	AFU/Inserts
S34 BBLS OH fo	eshworter Cardel	P Float Shoe
plum to 1200 #	5 Released and	Latch Down
Thell, 600 #3	Lift pressure	48 50
Cement	del Ciulate	Pumptrk Charge
		Mileage
and the second s		Tax
		Discount
X Signature	Illevie	Total Charge
- Marine	7 - C - C - C - C - C - C - C - C - C -	

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 4299

Cell 785-324-1041						
Date 6-28-2010 Sec. 34	Twp. Range	County State On Location State				
Date 0 0 0 0 0 0 0	11 00	aham 100 to Redline Rd, Gew				
Contractor Mwfin #1	L	Owner 5/5				
Type Job Coduction	(Bottom)	To Quality Oilwell Cementing, Inc.				
Hole Size	T.D. 413D	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Csg. 52" 14# " New	Depth 4/47,18	Charge Phillips exploration				
Tbg. Size	Depth	Street				
Tool DU Tool	Depth 2181	City State				
Cement Left in Csg. 15.94	Shoe Joint 16,94	The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace / O / BBLS	Cement Amount Ordered 1625 SX (Quality Paz C				
EQUIPM	MENT	500 mud Clear-40 10% Salt				
Pumptrk S No. Cementer Helper X 0	andon 4	Common				
Bulktrk 10 No. Driver Down	x 4	Poz. Mix				
Bulktripick up No. Driver Rick		Gel.				
JOB SERVICES	& REMARKS	Calcium				
Remarks:		Hulls				
Rat Hole Will Alua	on topstude	Salt /8				
Mouse Hole See tic	ket #4380 1.	Flowseal				
Centralizers 2, 4, 5, 6	7,8,10,47	Kol-Seal				
Baskets 13, 48	7 7	Mud CLR 48 500 gal				
D/V or Port Collar 2/81	Tool 48th TH	CFL-117 or CD110 CAF 38				
aloe on bottom, been	alcelation, mass 465	Sand				
a Gally R. C	Shart Asset	Handling 65				
Towns Soo gal pared	clear 48, pump 50	Ki Mileage				
dr 0.'	30.10000 - 1. 120.75002019e 70.860.0000 - 第42 <b>2第300000</b>	FLOAT EQUIPMENT				
Shut down Release		Guide Shoe				
and displaced w	AR SIGBOLS at	Centralizer 3-5%				
freshwates + 54	BBLS of mud	Baskets 2 - 5½"				
Lind Slugg to 123	50 \$15 Released a	AFU Inserts				
hold. Dono the	Dat wait Dala	Float Shoe ) > 5 2 W				
and open tool .	wash disobecoment	Latch Down				
tanks crear, and	Liculate 2his 1-	DU tool assu - 54"				
With Ria oump.		Rotton				
	144 PSI 7004	Pumpirk Charge Oral Long (torns Stage)				
		Mileage 38				
		Tax				
	20	Discount				
Signature Signature	Salend	Total Charge				
77						



Prepared For: Phillips Exploration

1601 Sagebrush Wichita, KS 67230

ATTN: Jim Phillips

#### 34-9s-24w Graham KS

#### Herman Tr 4-34

Start Date: 2010.06.26 @ 22:16:07 2010.06.27 @ 04:11:01 End Date: Job Ticket #: 38957

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2010.07.13 @ 10:01:20 Page 1



Phillips Exploration

1601 Sagebrush Wichita, KS 67230

ATTN: Jim Phillips

Herman Tr 4-34

34-9s-24w Graham KS

Job Ticket: 38957

DST#:1

Test Start: 2010.06.26 @ 22:16:07

#### GENERAL INFORMATION:

Time Tool Opened: 23:55:32 Time Test Ended: 04:11:01

Formation:

35-70

Deviated:

No

Whipstock:

Inside

ft (KB)

Test Type:

Conventional Bottom Hole

Tester:

Brian Fairbank

Unit No:

41

Reference Elevations:

2505.00 ft (KB)

2500.00 ft (CF)

KB to GR/CF:

5.00 ft

8000.00 psig

Interval:

3840.00 ft (KB) To 3890.00 ft (KB) (TVD)

Total Depth:

3890.00 ft (KB) (TVD)

Hole Diameter:

Start Date:

Start Time:

7.88 inchesHole Condition:

Serial #: 8647

Press@RunDepth:

54.97 psig @

2010.06.26

22:16:07

End Date: End Time:

3849.00 ft (KB)

2010.06.27

04:11:01

Capacity:

Last Calib .:

Time On Btm:

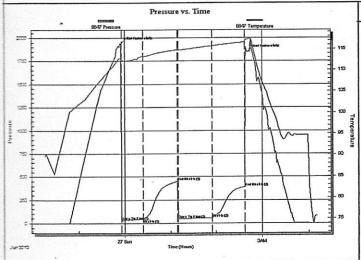
2010.06.27 2010.06.26 @ 23:54:32

Time Off Btm:

2010.06.27 @ 02:41:01

TEST COMMENT: IFP - w eak to fair blow 1/2" - 5 1/2"

ISI - no blow back FFP - no blow 4 min. - 4" FSI - no blow back



### PRESSURE SUMMARY

		CLUUUI	CE COMMUNICA
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1935.82	112.76	Initial Hydro-static
1	29.01	112.33	Open To Flow (1)
30	42.53	113.13	Shut-In(1)
75	452.72	114.78	End Shut-In(1)
76	44.18	114.70	Open To Flow (2)
120	54.97	115.72	Shut-In(2)
163	390.61	116.58	End Shut-In(2)
167	1847.82	117.27	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCWM 5%O, 25%W, 70%M	0.07
64.00	HOCM 30%O, 70%M	0.76
1.00	MCO 65%O, 35%M	0.01
	7 <sub>7</sub> a	

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 38957

Printed: 2010.07.13 @ 10:01:20



**TOOL DIAGRAM** 

Phillips Exploration

1601 Sagebrush Wichita, KS 67230

ATTN: Jim Phillips

Herman Tr 4-34

34-9s-24w Graham KS

Job Ticket: 38957

DST#:1

Test Start: 2010.06.26 @ 22:16:07

Tool Information

Drill Pipe: Length: 3805.00 ft Diameter: Heavy Wt. Pipe: Length:

Length:

Drill Pipe Above KB:

0.00 ft Diameter: 30.00 ft Diameter:

17.00 ft 3840.00 ft

50.00 ft

Interval between Packers: Tool Length:

Dr团 Collar:

Number of Packers:

Depth to Top Packer:

Depth to Bottom Packer:

72.00 ft

2.25 inches Volume: 0.15 bbl

3.80 inches Volume:

0.00 inches Volume:

Total Volume: 53.52 bbl

53.37 bbl

0.00 bbl

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb

**Tool Chased** 

0.00 ft String Weight: Initial 50000.00 lb

Final 50000.00 B

2 Diameter: 6.75 inches Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut in Tool	5.00			3823.00		
Hydraulic tool	5.00			3828.00		
Safety Joint	2.00			3830.00		
Packer	5.00		*	3835.00	22.00	Bottom Of Top Packer
Packer	5.00			3840.00	*	
Stubb	1.00			3841.00		
Perforations	7.00			3848.00		
Change Over Sub	1.00			3849.00		
Recorder	0.00	8647	Inside	3849.00		
Recorder	0.00	8371	Outside	3849.00		
Biank Spacing	32.00			3881.00		
Change Over Sub	1.00			3882.00		
Perforations	5.00			3887.00		
Bulnose	3.00			3890.00	50.00	Bottom Packers & Anchor

**Total Tool Length:** 

72.00



FLUID SUMMARY

Phillips Exploration

Herman Tr 4-34

1601 Sagebrush Wichita, KS 67230 34-9s-24w Graham KS Job Ticket: 38957

ft

bbl

psig

DST#:1

ATTN: Jim Phillips

Test Start: 2010.06.26 @ 22:16:07

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity: Water Loss:

51.00 sec/qt 8.75 in<sup>3</sup> ohm.m

Resistivity: Salinity: Fitter Cake:

1800.00 ppm inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

Oil APt:

Water Salinity:

deg API

31000 ppm

Recovery Information

Recovery Table

Length	Description	Volume bbl
11 00	SOCWM 5%O, 25%W, 70%M	0.074
15.00		0.761
64.00	HOCM 30%O, 70%M	0.014
1.00	MCO 65%O, 35%M	

Total Length:

80.00ft

Total Volume:

0.849 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .246 @ 74F = 31000 chlorides

