

# Kansas Corporation Commission Oil & Gas Conservation Division

1160991

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 l	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	:					
<b>INSTRUCTIONS:</b> She time tool open and clo recovery, and flow rate line Logs surveyed. A	sed, flowing and shues if gas to surface te	t-in pressures st, along with	s, whether s final chart(s	hut-in press	sure read	ched static level,	hydrostatic press	sures, bottom h	nole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes	☐ No			og Formatio	n (Top), Depth ar	nd Datum	;	Sample
Samples Sent to Geol	ogical Survey	Yes	No		Nam	е		Тор	[	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy		Yes Yes Yes	No No No							
List All E. Logs Run:										
		Report a		RECORD	Ne	w Used	on, etc.			
Purpose of String	Size Hole Drilled	Size C Set (In		Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
		Δ	ADDITIONAL	CEMENTIN	NG / SQL	    EEZE RECORD				
Purpose:	Depth	Type of (		# Sacks			Type and F	Percent Additives		
Perforate Protect Casing	Top Bottom									
Plug Back TD Plug Off Zone										
r lug on zone										
Shota Par Foot	PERFORATI	ON RECORD -	- Bridge Plug	s Set/Type		Acid, Fra	cture, Shot, Cemen	t Squeeze Recor	d	
Shots Per Foot	Specify	Footage of Each	h Interval Perf	orated		(Ai	mount and Kind of Ma	aterial Used)		Depth
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN	_	roducing Meth	nod:	g 🗌	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:	'	ħ.	METHOD OF	COMPLE	TION:		PRODUCTION	ON INTER	VAI ·
Vented Sold		Ope	n Hole	Perf.	Dually	Comp. Cor	nmingled			
(If vented, Sub		O+b-	or (Specify)		(Submit )	ACO-5) (Sub	mit ACO-4)			

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665 Cell 785-324-1041 Sec. Range Twp. County State On Location Finish Date Lease Well No. To Quality Oilwell Cementing, Inc. Contractor 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 Hole Size T.D. To Depth Csg. Street Tbg. Size Depth City State Tool Depth The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csc Shoe Joint Meas Line Displace **EQUIPMENT** Common 4 Cementer Pumptrk Poz. Mix Helper Driver Bulktrk Gel. Driver No. Driver Calcium Driver **JOB SERVICES & REMARKS** 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 Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU Inserts** Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount **Total Charge** Signature

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

Phone 785-483-2025 Cell 785-324-1041	Home Office I	P.O. Box 32	Russell, KS 6	7665° kront edt no ma seo labetem ent et za	No. 7920 6-20-13
Date 6-19-13 Sec. 26	Twp. Range 20 16	Pawne	e KState	On Locati	on Finish 12:15 AN
per agrym ym gaid. Notwitt-	Inaction 81 to etch is to	Location Po	whee Rock	Ks - 10 on	TRI to gore
Lease Cluttes	Well No. 2	Owner	IN 7/4 W	Phyto	ni paloperol ent palopero
Contractor Royal 2	r star foorting legel mur	To Qu	ality Oilwell Cement	ing, Inc.	lique rebriu yaq of eenge
Type Job Plucy	JAUO" to notigo ent ta so "	cemer	ter and helper to as	to rent cementing equi	or to do work as listed.
Hole Size 7 1/8 11	T.D. 3798/	Charg To	· Charter	Energy	TOMER." For purposes
Csg.	Depth Depth Depth Depth	Street	wied pribacycic, in	o neitos lego.	BER BAROTTA -
Tbg. Size 43"D.P.	Depth 3750	City	ed politicasto edi s	State	any way certained to the
Tool	Depth a clubertos lisas	The ab	ove was done to satis	faction and supervision of	owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Ceme	nt Amount Ordered	210 50 601	40 4% Grel 44#
Meas Line	Displace HZO/M	ud Fb-	seg)	nouse of a see expense RES: GUALITY will ma	an en i desirat besirate to Sprakts-sunaism
EQUIP	MENT PRODUCT IN THE	Comm	10	o so because of poor	QUALITY be unable to d
Pumptrk 16 No. Cementer Helper 10	nnie W.	Poz. N	1ix 84	to or from the job site	public of International Inc. of
Bulktrk 8 No. Driver He	ath	Gel.	or mercher (see is	HARGES: If a job and	- PREPARATION C
Bulktrk D. No. Driver R.	CK STO SO B JUSTICO	Calciu	Pay Costair of	949L CUSTOMEN WI	ism re life to noticulos lao.
JOB SERVICES	S & REMARKS	Hulls	r each sendoe unit	a charged each way to	ad fliw lood eoing tnemun
Remarks:	The shall not be liable for it	Salt	RESTRICTOR TO YES	THONS AND LIABILIT	- SERVICE COND
Rat Hole	rehandise Customer sha	Flows	eal 50#	g from the performan	tiaha damabas grant vo
Mouse Hole	a purp Aum reunefite rate tate	Kol-Se	oal	emiess QUALITY, its c	nity, defend, and hold ha
Centralizers	ight by any person, includ	Mud C	LR 48	party or for bodily injury	gong of egemed (A)
Baskets world lies a mont prilets	sservoir loss, or damage	CFL-1	17 or CD110 CAF 3	8	owner; and:
D/V or Port Collar	of merchandise in accou	Sand	domanos of the jo	OF WITH QUALITY'S	namori hamida no ta ta taba auti
3750' - 50sx	GIA Shewarth St	Handli	ng-2/7	caused by the Period	such loss or damage is
10601 - 50 5)		Mileag	e	Sustain and the	STOLEN CONTRACTOR CONTRACTOR
3501 - 40SX	16110		FLOAT E	QUIPMENT	ere in O of muter protect
601- 20 SX	or conditions row	Guide	Shoe magasina	MAIN IS DITHERS FOR	eco mamagalga memb each YTI LALICLE
Rathole - 30 SX	sh mail east act at the be	Centra	llizer	of water or other fluid	caused by contamination
mousehole - 2	the manner provide &	Baske	ts beau bas bell	nom us amenuw Y II. steci noriw ecinee ha	WARRANTEE: 1 CUA
BUSINESS AREAS TO SECURE	eres airis offon los e	AFU	nserts	ger of betterf viscogo	under this warrar
BOYT Cement of	de Granda	Float S	Shoe	M. Ali, Valor	LIAUD vd benim
folioseuroseuro veis velt alcolt ad	day red table to be the top of th	Latch	Water to the same of	CULAH USE OR PUR	FITNESS FOR A FAITT
	eferials, products or supp	or sylication wil	basusoto di si con	MORE TO TOPICAL PROPERTY IN THE PROPERTY IN TH	easique to tisque edit ed
una la thosa adt la autoria a		, ,		- 1	2. More specifically
		Pumpi	rk Charge	HBIP SETTION	Ent in grifton (A)
destainas asecto, notamicial as	nel yes to seemberroome y	Mileag	0 2 11	te op entitude toethoo	airt ni gairtici/i (8)
erit ni seevolame at 10 YTLAX	1/1/1	totellere bedes be	Contract and Famour	rprefation of teat, met	Tax To YTLIAUQ yd
noo bas no Va M 5	layer	Work done by		Dis	count
X Signature	A STURBERS THEORY SERVE	NB 188 Cliqued) in		Total C	harge
					AT LEAST DISCUSSION OF THE



Charter Energy Inc

26 20s 26w Pawnee

P.O. Box 252

Job Ticket: 53819

Clutter # 2

Unit No:

DST#:1

Great Bend KS 67530-0252

ATTN: Wyatt Urban

Test Start: 2013.06.18 @ 18:26:00

41

Reference Elevations:

**GENERAL INFORMATION:** 

Formation: Arbuckle

Deviated: No Whipstock: 2025.00 ft (KB)

Time Tool Opened: 20:22:00 Time Test Ended: 01:24:00

Interval:

Start Date:

Start Time:

3690.00 ft (KB) To 3770.00 ft (KB) (TVD)

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty

2025.00 ft (KB)

2018.00 ft (CF) KB to GR/CF: 7.00 ft

Serial #: 8322 Inside

Press@RunDepth: 617.41 psig @ 3702.00 ft (KB)

2013.06.18 End Date: 2013.06.19 18:26:01 End Time: 01:23:50

Last Calib.: Time On Btm:

Capacity:

8000.00 psig 2013.06.19

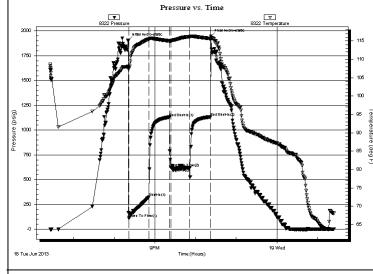
Time On Btm: 2013.06.18 @ 20:21:00 Time Off Btm: 2013.06.18 @ 22:22:50

PRESSURE SUMMARY

TEST COMMENT: 30-IFP- BOB in 45 sec.

30-ISIP- Surface Blow in 1min. 30-FFP- BOB in 4 1/2 min.

30-FSIP- Surface Blow in 2 1/2 min.



- 4				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1904.11	108.05	Initial Hydro-static
	1	110.99	107.70	Open To Flow (1)
	31	325.28	115.51	Shut-In(1)
4	61	1129.78	115.00	End Shut-In(1)
Temperature	63	624.38	115.00	Open To Flow (2)
rature	91	617.41	116.16	Shut-In(2)
dea	122	1133.60	115.66	End Shut-In(2)
פ	122	1947.51	115.73	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
310.00	GM 10%g 90%m Show of Oil	4.35
124.00	GWCM 10%g 15%w 75%m Show of O	l 1.74
186.00	GOMCW 20%g 5%o 10%m 65%w	2.61
434.00	OMCW 5%o 5%m 90%w	6.09
0.00	186 GIP	0.00

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

Trilobite Testing, Inc Ref. No: 53819 Printed: 2013.06.19 @ 07:52:54



**FLUID SUMMARY** 

Charter Energy Inc

ATTN: Wyatt Urban

26 20s 26w Pawnee

P.O. Box 252

Clutter # 2
Job Ticket: 53819

DST#:1

Great Bend KS 67530-0252

Test Start: 2013.06.18 @ 18:26:00

**Mud and Cushion Information** 

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

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 36000 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 9.58 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 7300.00 ppm Filter Cake: inches

# **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
310.00	GM 10%g 90%m Show of Oil	4.348
124.00	GWCM 10%g 15%w 75%m Show of Oil	1.739
186.00	GOMCW 20%g 5%o 10%m 65%w	2.609
434.00	OMCW 5%o 5%m 90%w	6.088
0.00	186 GIP	0.000

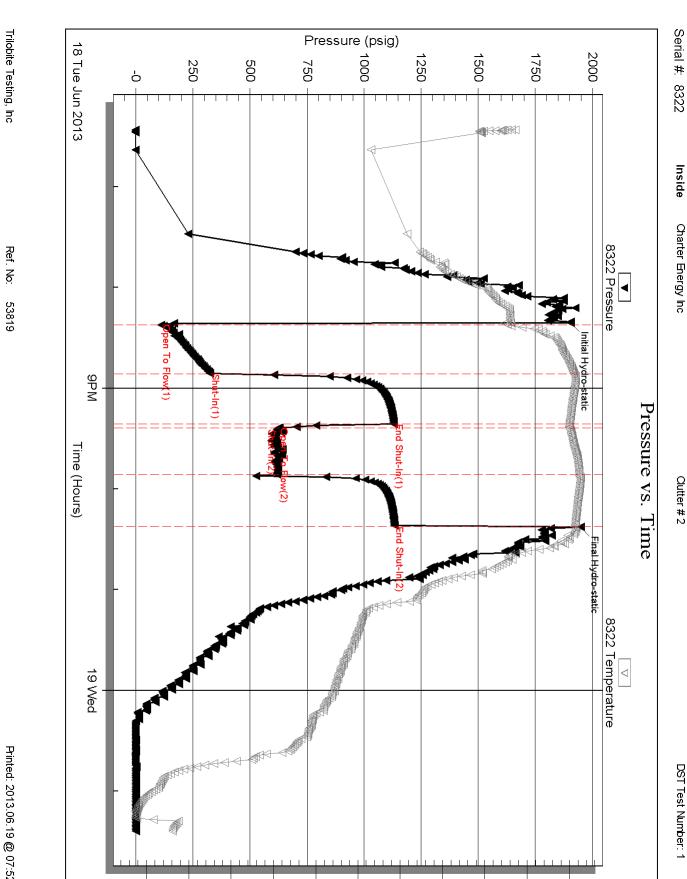
Total Length: 1054.00 ft Total Volume: 14.784 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .213 @ 66

Trilobite Testing, Inc Ref. No: 53819 Printed: 2013.06.19 @ 07:52:55



Temperature (deg F)



Charter Energy Inc

26 20s 26w Pawnee

P.O. Box 252

Job Ticket: 53820

Clutter # 2

Tester:

Unit No:

DST#: 2

2025.00 ft (KB)

2018.00 ft (CF)

Great Bend KS 67530-0252

ATTN: Wyatt Urban

Test Start: 2013.06.19 @ 06:25:00

Jim Svaty

41

Test Type: Conventional Bottom Hole (Reset)

#### GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: 2025.00 ft (KB)

Time Tool Opened: 08:09:50 Time Test Ended: 13:19:00

Interval: 3768.00 ft (KB) To 3785.00 ft (KB) (TVD) Reference Elevations:

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

DIE DIAMETER: 7.88 INCRESTIDIE CONDITION: FAIR KB TO GRACE: 7.00 TI

Serial #: 6752 Outside

Total Depth:

Press@RunDepth: 1090.23 psig @ 3782.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.06.19
 End Date:
 2013.06.19
 Last Calib.:
 2013.06.19

 Start Time:
 06:25:01
 End Time:
 13:18:30
 Time On Btm:
 2013.06.19 @ 08:08:10

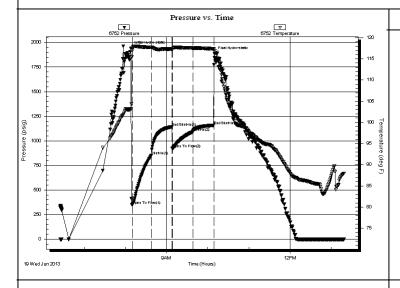
 Time Off Btm:
 2013.06.19 @ 10:09:40

TEST COMMENT: 30-IFP- BOB in 25 sec.

30-ISIP- Surface Blow in 1 min. BOB in 19 min.

30-FFP- BOB in 10 sec. 30-FSIP- BOB in 10 min.

3785.00 ft (KB) (TVD)



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1940.94	103.10	Initial Hydro-static
2	347.57	116.97	Open To Flow (1)
30	850.64	117.70	Shut-In(1)
60	1142.98	117.24	End Shut-In(1)
61	923.19	117.19	Open To Flow (2)
90	1090.23	117.55	Shut-In(2)
121	1156.59	117.36	End Shut-In(2)
122	1883.71	116.82	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
279.00	GOWCM 15%g 10%o 15%w 60%m	3.91
434.00	GOMCW 10%g 5%o 10%m 75%w	6.09
1736.00	Water 100%	24.35
0.00	713 GIP	0.00
* Recovery from mult	iple tests	

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 53820 Printed: 2013.06.19 @ 13:57:07



**FLUID SUMMARY** 

Charter Energy Inc

26 20s 26w Pawnee

P.O. Box 252

Clutter # 2

Great Bend KS 67530-0252

Job Ticket: 53820 **DST#: 2** 

ATTN: Wyatt Urban

Test Start: 2013.06.19 @ 06:25:00

#### **Mud and Cushion Information**

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

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 30000 ppm

Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 9.55 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 7300.00 ppm Filter Cake: inches

# **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
279.00	GOWCM 15%g 10%o 15%w 60%m	3.914
434.00	GOMCW 10%g 5%o 10%m 75%w	6.088
1736.00	Water 100%	24.352
0.00	713 GIP	0.000

Total Length: 2449.00 ft Total Volume: 34.354 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .190 @ 84

Trilobite Testing, Inc Ref. No: 53820 Printed: 2013.06.19 @ 13:57:09

95

(A geb) enutsredmeT

105

110

15

120

<sup>–</sup> 75

80

85

90

Trilobite Testing, Inc

Ref. No: