

Kansas Corporation Commission Oil & Gas Conservation Division

1057805

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
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	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 #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or 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 I II III Approved by: Date:				

Side Two



Operator Name:			Lease Nar	me:			. Well #:	
Sec Twp	S. R	East West	County: _					
time tool open and clor recovery, and flow rate	sed, flowing and shut-	base of formations per in pressures, whether s t, along with final chart(vell site report.	hut-in pressur	e reached	static level,	hydrostatic press	ures, bottom h	ole temperature, fluid
Drill Stem Tests Taken (Attach Additional S		☐ Yes ☐ No		Log	Formation	n (Top), Depth an	d Datum	Sample
Samples Sent to Geol	logical Survey	Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Electric Log Submittee (If no, Submit Copy	d Electronically	Yes No Yes No Yes No						
List All E. Logs Run:								
		CASING Report all strings set-	RECORD [New	Used	on, etc.		
Purpose of String	Size Hole	Size Casing	Weight		Setting	Type of	# Sacks	Type and Percent
	Drilled	Set (In O.D.)	Lbs. / Ft.	•	Depth	Cement	Used	Additives
		ADDITIONAL	CEMENTING	/ SQUEEZ	E RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Us	sed		Type and F	ercent Additives	
Perforate Protect Casing								
Plug Back TD Plug Off Zone								
Shots Per Foot	PERFORATIO	N RECORD - Bridge Plugotage of Each Interval Per	s Set/Type			cture, Shot, Cement		d Depth
	Ороскіў ГС	olage of Each interval i er	ioratea		(70)	nount and rund of we	ichar Osca)	Верит
TUBING RECORD:	Size:	Set At:	Packer At:	Lir	ner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	R. Producing Met	hod:	Gas	Lift 0	ther (Explain)		
Estimated Production Per 24 Hours	Oil Bl	bls. Gas	Mcf	Water	Bb	ols. (Gas-Oil Ratio	Gravity
DISPOSITIO			METHOD OF CO	OMBI ETICI	NI:		DRODUCTIO	MINITEDVAL.
Vented Sold	ON OF GAS: Used on Lease	Open Hole	METHOD OF CO	Dually Con		nmingled	PRODUCTIC	ON INTERVAL:
(If vented, Sub		Other (Specify)		Submit ACO-		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Chaco Energy Company
Well Name	Wilgers 2
Doc ID	1057805

All Electric Logs Run

Dual Induction
Microresistivity
Dual Compensated Porosity
Borehole Compensated Sonic

Form	ACO1 - Well Completion
Operator	Chaco Energy Company
Well Name	Wilgers 2
Doc ID	1057805

Tops

Name	Тор	Datum
Anhydrite	2667	520
Heebner shale	4078	-891
Lansing	4120	-933
Stark Shale	4344	-1157
Base Kansas City	4401	-1214
Ft. Scott	4590	-1403
Marmaton	4426	-1239
Cherokee shale	4619	-1432
Johnson	4662	-1475
Basal Penn sand	4706	-1519
Mississippian	4727	-1540

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

July 21, 2011

Alan Nelson Chaco Energy Company PO BOX 1587 DENVER, CO 80201-1587

Re: ACO1 API 15-193-20798-00-00 Wilgers 2 NW/4 Sec.33-10S-33W Thomas County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Alan Nelson



PO BOX 31 Russell, KS 67665

"IN I 3 504

INVOICE

Invoice Number: 127422

Invoice Date: Jun 4, 2011

Page: 1

Voice: (785) 483-3887 Fax: (785) 483-5566

Bill To:

Chaco Energy Company

P O Box 1587 Denver, CO 80201 Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment	Terms
Chaco	Wilgers #2	Net 30	Days
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 4, 2011	7/4/11

Quantity	l te m	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
4.00	MAT	Gel	21.25	85.00
7.00	MAT	Chloride	58.20	407.40
211.00	SER	Handlign	2.25	474.75
12.00	SER	Mileage 211 sx @.11 per sk per mi	23.21	278.52
1.00	SER	Surface	1,125.00	1,125.00
24.00	SER	Pump Truck Mileage	7.00	168.00
1.00	SER	Manifold Head Rental	200.00	200.00
24.00	SER	Light Vehicle Mileage	4.00	96.00
1.00	CEMENTER	Andrew Forslund		
1.00	OPER ASSIST	Earl Rebarchek		
1.00	OPER ASSIST	Ethan Glassman		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1216.93

ONLY IF PAID ON OR BEFORE
Jun 29, 2011

٦	Subtotal	6,084.67
-	Sales Tax	273.20
1	Total Invoice Amount	6,357.87
	Payment/Credit Applied	
1	TOTAL	6,357.87

ALLIED CEMENTING CO., LLC. 043425

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

						OGB	<u>cex</u>
DATE -4-11	SEC.	TWP.	RANGE 33W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
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TOOL		DEI					
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# 422	HELPER		erL			@	
BULK TRUCK		_				_	-
# 404	DRIVER	An	drew			_	-
BULK TRUCK	DRIVER		han			_	
#	DRIVER	<u></u>	nan	- HANDLING		@ 2,25	474,75
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contractor to do	work as is	listed. T	he above work w	as			
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PRINTED NAME	1	- /	\mathcal{I}		_	- 1	
SIGNATURE	Slei	ر) معد	roya		\mathcal{D}	\mathcal{A}	
					(),		



REMIT TO

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346 MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210 • 1-800/467-8676 FAX 620/431-0012

INVOICE

Invoice #

242060

Invoice Date:

06/22/2011

Terms: 15/15/30, n/30

Page

1

CHACO ENERGY COMPANY P.O. BOX 1587 DENVER CO 80201 WILGERS #2 28047 33-105-33W 6-14-11

KS

DENVER CO 80201 (303)744-1480

Qty Unit Price Total Description Part Number 14.3500 3157.00 60/40 POZ MIX 220.00 1131 .2400 756.00 181.44 PREMIUM GEL / BENTONITE 1118B 2,6600 146.30 55.00 FLO-SEAL (25#) 1107 1.00 96,0000 96.00 8 5/8" WOODEN PLUG 4432 Total Sublet Performed Description -537.12 CASH DISCOUNT 9999-130 -256.49 CASH DISCOUNT 9999-130

	Description	Hours U	Jnit Price	Total
399	P & A NEW WELL	1.00	1250.00	1250.00
399	EQUIPMENT MILEAGE (ONE WAY)	10.00	5.00	50.00
460	MIN. BULK DELIVERY	1.00	410.00	410.00

PLVG

Amount Due 5552.14 if paid after 07/22/2011

Parts: 3580.74 Freight: .00 Tax: 222.19 AR 4719.32
Labor: .00 Misc: .00 Total: 4719.32

Labor: .00 Misc: .00 Total: 4719.32
Sublt: -793.61 Supplies: .00 Change: .00

Signed Date_____Date



TICKET NUM		28047	
LOCATION_	0	akles	
FOREMAN	111	HARLES	

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WE	LL NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
6-14-1	1809	41.10	ers #2		33	105		
USTOMER	-	- viq.		T		102	33m.	Thoma
AILING ADDR	aco Enc	ersy Co	0	Monument	TRUCK#	DRIVER	TRUCK#	DRIVER
AILING ADDR	E00	•		24	399	Charl s	senth	
TV		Ta		1/42	460		1/1/0 MI	Dox Shaw
TY		STATE	ZIP CODE	184			17.00	June
		<u> </u>						
	7TA -0		77/8	L HOLE DEPTH	4825	CASING SIZE &	WEIGHT	
ASING DEPTH		DRILL PIPE	4/2×4	TUBING			OTHER	_
URRY WEIGH	łT	SLURRY VOL_		WATER gal/sk		CEMENT LEFT is		
SPLACEMEN		DISPLACEMEN		MIX PSI		RATE		
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		~~~			W		DATE	



#### **DRILL STEM TEST REPORT**

Chaco Energy Co.

Wilgers #2

PO Box 1587

33/10s/33w

Denver, CO 80201

Job Ticket: 042022

DST#:1

ATTN: Austin Garner

Test Start: 2011.06.09 @ 12:10:00

#### **GENERAL INFORMATION:**

Formation:

Lans. "F"

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 14:46:00 Time Test Ended: 20:11:30 Tester:

Test Type: Conventional Bottom Hole

Unit No:

James Winder

4169.00 ft (KB) To 4208.00 ft (KB) (TVD)

3187.00 ft (KB)

Interval: Total Depth:

Reference Bevations:

3176.00 ft (CF)

4208.00 ft (KB) (TVD)

46

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

11.00 ft

Serial #: 8366 Press@RunDepth: Inside

308.35 psig @

4170.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2011.06.09 12:10:05

End Date: End Time:

2011.06.09 20:11:29

Last Calib.: Time On Btm: 2011.06.09

Time Off Btm:

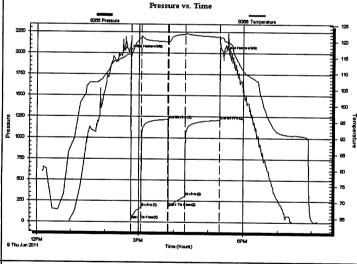
2011.06.09 @ 14:42:30 2011.06.09 @ 17:25:30

TEST COMMENT: IF: Blow built to BOB (11") in 10 1/4 min.

ISI: No blow back

FF: Blow built to BOB in 12 3/4 min.

FSI: No blow back



	PRESSURE SUMMARY					
	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	2012.70	115.88	Initial Hydro-static		
	4	29.61	114.88	Open To Flow (1)		
	22	176.30	121.12	Shut-In(1)		
	68	1218.37	119.84	End Shut-In(1)		
Tem	68	180.42	119.48	Open To Flow (2)		
Temperature	97	308.35	122.17	Shut-In(2)		
3	157	1211.70	121.29	End Shut-In(2)		
	163	1999.01	121.10	Final Hydro-static		
				-		
				1		

#### Recovery

Length (ft)	Description	Volume (bbl)
400.00	SMCW 95%w, 5%m	3.41
185.00	MCW 81%w, 19%m	2.60
50.00	MW 60%w, 40%m	0.70
0.00	Trace of Oil in tool	0.00

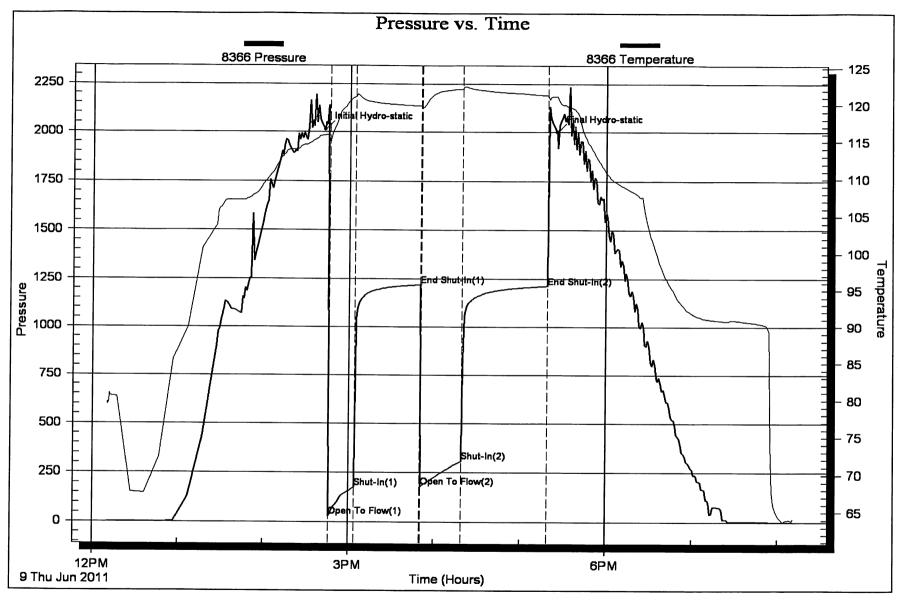
Gas Rates					
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		

Trilobite Testing, Inc.

Ref. No: 042022

Printed: 2011.06.11 @ 05:31:30 Page 1







#### **DRILL STEM TEST REPORT**

Chaco Energy Co.

Wilgers #2

PO Box 1587

33/10s/33w

Denver, CO 80201

Job Ticket: 042023

DST#: 2

ATTN: Austin Garner

Test Start: 2011.06.10 @ 22:15:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 00:50:00

Formation:

LKC "J"

Deviated:

No Whipstock: ft (KB)

Test Type: Tester:

Conventional Bottom Hole

Unit No:

James Winder

Time Test Ended: 05:09:00

Reference Bevations:

3187.00 ft (KB)

Interval: Total Depth: 4342.00 ft (KB) To 4350.00 ft (KB) (TVD)

Inside

3176.00 ft (CF)

Hole Diameter:

4350.00 ft (KB) (TVD)

KB to GR/CF:

11.00 ft

Serial #: 8366

7.88 inches Hole Condition: Fair

Press@RunDepth: Start Date:

21.06 psig @

4343.00 ft (KB) End Date:

2011.06.11

Capacity: Last Calib.: 8000.00 psig

Start Time:

2011.06.10 22:15:05

End Time:

05:08:59

Time On Btm:

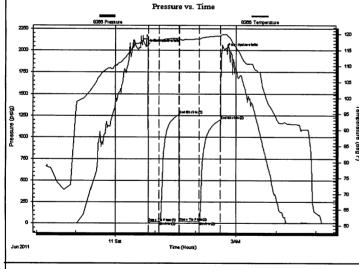
2011.06.11 2011.06.11 @ 00:47:00

Time Off Btm:

2011.06.11 @ 02:43:30

TEST COMMENT: IF: Surface blow, dead at 15 min.

ISI: No blow back FF: No blow FSI: No blow back



	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	2046.98	118.44	Initial Hydro-static		
	3	14.08	117.48	Open To Flow (1)		
	19	17.78	117.99	Shut-In(1)		
٦,	49	1259.98	118.76	End Shut-In(1)		
ompo	49	18.63	118.39	Open To Flow (2)		
rature	78	21.06	118.52	Shut-In(2)		
Temperature (deg F)	110	1196.62	119.48	End Shut-In(2)		
3	117	2004.74	119.89	Final Hydro-static		

PRESSURE SUMMARY

#### Length (ft) Description Volume (bbl) 6.00 Mud 100% 0.03 0.00 Sampler 138 psi 2000 mL mud w /trace oil0.00

Recovery

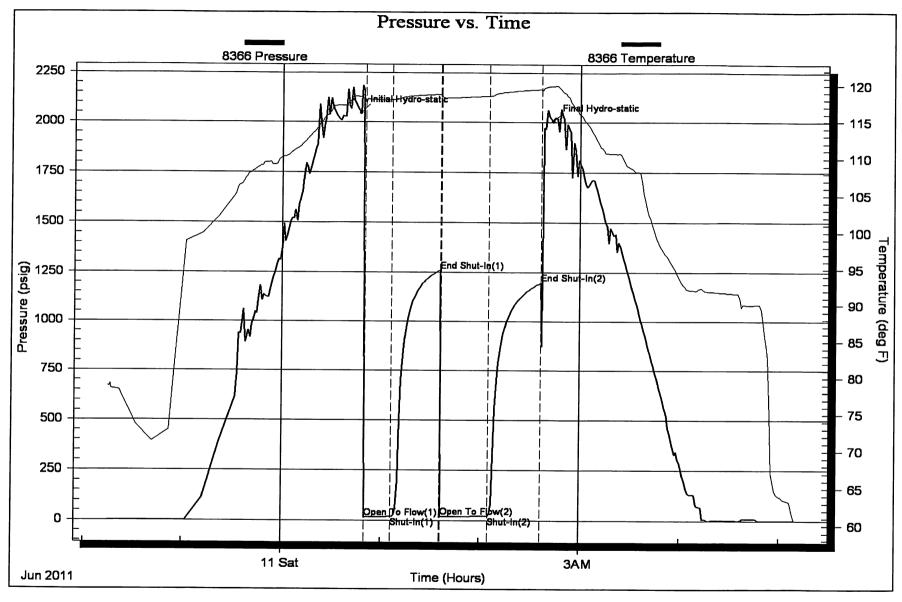
Gas Rates Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 042023

Printed: 2011.06.11 @ 05:30:57 Page 1







#### DRILL STEM TEST REPORT

Chaco Energy Co.

Wilgers #2 33/10s/33w

PO Box 1587

Job Ticket: 042024

DST#:3

ATTN: Austin Garner

Denver, CO 80201

Test Start: 2011.06.12 @ 20:01:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 22:58:00

Time Test Ended: 04:22:00

Formation:

Johnson

No

Deviated:

Whipstock:

ft (KB)

Tester:

Test Type: Conventional Bottom Hole

James Winder

Unit No: 46

interval:

4632.00 ft (KB) To 4695.00 ft (KB) (TVD)

Reference Bevations:

3187.00 ft (KB)

Total Depth:

4695.00 ft (KB) (TVD)

....

3176.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Fair

KB to GR/CF:

11.00 ft

Serial #: 8366

Press@RunDepth:

Inside

75.23 psig @

4637.00 ft (KB)

2011.06.13

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time: 2011.06.12 20:01:05

End Date: End Time:

04:21:59

Time On Btm:

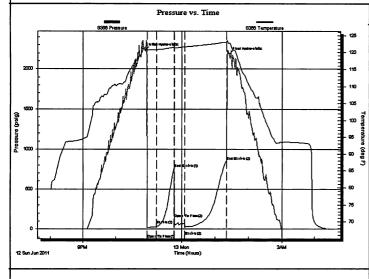
2011.06.13 2011.06.12 @ 22:54:30

Time Off Btm:

2011.06.13 @ 01:25:00

TEST COMMENT: IF: Surface blow through open

ISI: No blow back FF: No blow FSI: No blow back



#### PRESSURE SUMMARY

TREGORE GOWNARY				
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	2230.94	121.36	Initial Hydro-static	
4	22.05	120.75	Open To Flow (1)	
21	28.25	120.80	Shut-In(1)	
52	757.97	121.51	End Shut-In(1)	
53	53.33	121.30	Open To Flow (2)	
71	75.23	121.64	Shut-ln(2)	
146	850.15	123.01	End Shut-In(2)	
151	2187.53	122.66	Final Hydro-static	

#### Recovery

Length (ft)	Description	Volume (bbl)
20.00 OCM 84%m, 13%o, 3%g		0.10
0.00	GIP = 40'	0.00
0.00	Sampler = 332 PSI	0.00
0.00	1800 mL MCO 69%o, 24%m, 7%g	0.00
0.00	0.00 200 mL Gas	

#### Gas Rates

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

Trilobite Testing, Inc

Ref. No: 042024

Printed: 2011.06.13 @ 05:42:56 Page 1

Serial #: 8366 Inside Chaco Energy Co. 33/10s/33w DST Test Number: 3

