



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1238831  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

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

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1238831

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Sonoma Resources LLC
Well Name	Unruh 1
Doc ID	1238831

All Electric Logs Run

Geological
Composite
Compensated Neutron
Borehole Compensated Sonic Log
Phased Induction

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **1747**  
 Foreman Steve Mead  
 Camp Eureka KS

15-115-21489

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
11-23-14	1044	Unpub #1	23	175	1E	Marion	Ks	
Customer	Mailing Address	City	State	Zip Code	Unit #	Driver	Unit #	Driver
Sanoma Resources LLC	P.O. Box 384	Eldorado	Ks	67042	104	Alan M		
					113	Fds		

Job Type Surface      Hole Depth 219'      Slurry Vol. \_\_\_\_\_      Tubing \_\_\_\_\_  
 Casing Depth 210'      Hole Size 12 1/4      Slurry Wt. \_\_\_\_\_      Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8 23"      Cement Left in Casing 15'      Water Gal/SK \_\_\_\_\_      Other \_\_\_\_\_  
 Displacement 13 bbls      Displacement PSI \_\_\_\_\_      Bump Plug to \_\_\_\_\_      BPM \_\_\_\_\_

Remarks: Safety Meeting. Rig up to 8 5/8 casing. Break circulation w Fresh water. Mix 13 sacks Class A Cement w 3% CaCl2, 2% Gel + 1/2" Flo-Seal per/sk. Displace 13 bbls Fresh water. Shut well in. Good cement returns to surface 7 bbl TO PIT. Job complete. Rig down.

Thank you

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	70	Mileage	3.95	276.50
C200	130sks	Class A Cement	15.00	1950.00
C205	365#	CaCl2 3%	.60	219.00
C206	245#	Gel 2%	.20	49.00
C209	33#	Flo-Seal 1/2" per/sk	2.25	74.25
C105B	6.11700	Tenmileage bulk Truck	1.35	577.40
			SubTotal	3986.15
			Sales Tax 7.65%	175.36
Authorization <u>Called by Duke</u> Title <u>Toolpusher</u>			Total	4161.51

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**

Ticket No. 1971  
 Foreman KEVIN MCCOY  
 Camp EUREKA

API # 15-115-21489

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
12-7-14	1048	UNRUH # 1	23	17S	1E	MARION	KS	
Customer SONOMA RESOURCES, LLC			Safety Meeting		Unit #	Driver	Unit #	Driver
Mailing Address P.O. Box 384			KM		105	DAVE G.		
City Eldorado			DG		112	John S.		
State KS			JS					
Zip Code 67042								

Job Type P.T.A. Hole Depth 3440' KB Slurry Vol. \_\_\_\_\_ Tubing \_\_\_\_\_  
 Casing Depth \_\_\_\_\_ Hole Size 7 7/8 Slurry Wt. \_\_\_\_\_ Drill Pipe 4 1/2  
 Casing Size & Wt. \_\_\_\_\_ Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

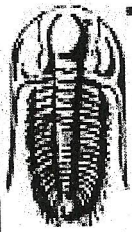
Remarks: Safety Meeting: Rig up to 4 1/2 DRILL pipe. Spot Cement Plugs AS Following.

35 SKS @ 3348'  
25 SKS @ 260'  
25 SKS 60' to SURFACE  
25 SKS R.H.  
20 SKS M.H.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 103	1	Pump Charge	1050.00	1050.00
C 107	70	Mileage	3.95	276.50
C 203	130 SKS	60/40 Pozmix Cement	12.75	1657.50
C 206	450 #	Gel 4%	.20	90.00
C 108 B	5.6 Tons	Ton Mileage 70 miles	1.35	529.20
<u>THANK you</u>			Sub TOTAL	3603.20
<u>A</u>			Sales Tax 7.65%	133.68

Authorization witnessed by Duke Coulter Title Toolpusher C&G Delg. Rig #2 Total 3736.88

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Sonoma Resources  
PO Box 384  
El Dorado, KS 67042  
ATTN: Bill Stout

**23-17S-1E Marion, KS**  
**Unruh #1**  
Job Ticket: 59889      **DST#: 1**  
Test Start: 2014.12.03 @ 13:25:29

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 15:23:59  
Time Test Ended: 21:34:29  
**Interval: 2657.00 ft (KB) To 2712.00 ft (KB) (TVD)**  
Total Depth: 2712.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 1460.00 ft (KB)  
1450.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 6798

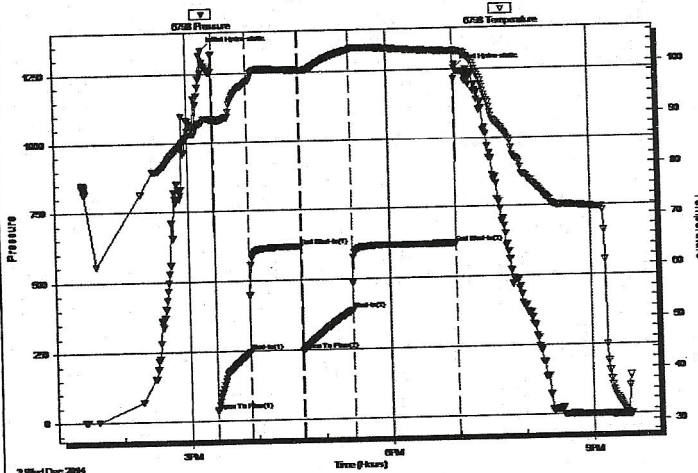
Inside

Press@RunDepth: 389.51 psig @ 2658.00 ft (KB)  
Start Date: 2014.12.03      End Date: 2014.12.03  
Start Time: 13:25:30      End Time: 21:34:29

Capacity: 8000.00 psig  
Last Calib.: 2014.12.03  
Time On Btm: 2014.12.03 @ 15:14:14  
Time Off Btm: 2014.12.03 @ 19:00:59

**TEST COMMENT:** IF: Weak Blow , BOB in 18 minutes  
IS: No Blow Back  
FF: Weak Blow , BOB in 14 minutes  
FSI: No Blow Back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1332.08	89.34	Initial Hydro-static
10	36.28	89.43	Open To Flow (1)
40	246.06	96.82	Shut-In(1)
86	617.07	99.07	End Shut-In(1)
87	247.54	98.94	Open To Flow (2)
132	389.51	102.81	Shut-In(2)
226	617.71	102.19	End Shut-In(2)
227	1251.91	102.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
551.00	Water	5.01
252.00	MCW 30%M 70%W	3.53
10.00	SOSWCM 2%O 20%W 78%M	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Sonoma Resources  
PO Box 384  
El Dorado, KS 67042  
ATTN: Bill Stout

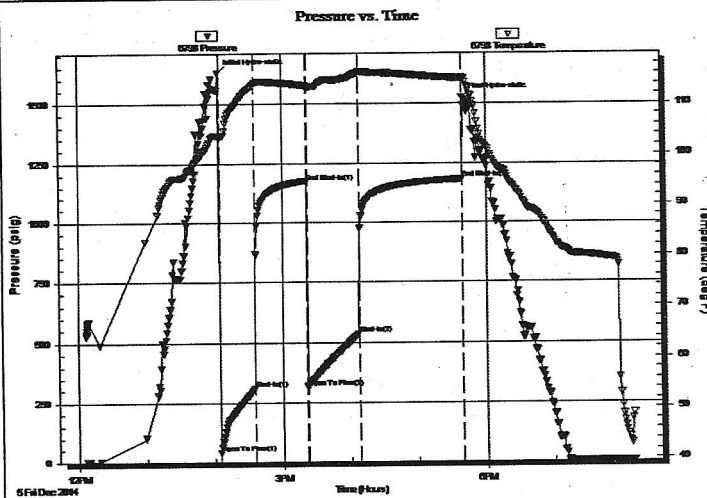
**23-17S-1E Marion, KS**  
**Unruh #1**  
Job Ticket: 59890 **DST#: 2**  
Test Start: 2014.12.05 @ 12:07:18

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:05:03  
Time Test Ended: 20:10:48  
Interval: **3155.00 ft (KB) To 3202.00 ft (KB) (TVD)**  
Total Depth: 3202.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 1460.00 ft (KB)  
1450.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6798** **Inside**  
Press@RunDepth: 536.09 psig @ 3156.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05  
Start Time: 12:07:19 End Time: 20:10:48 Time On Btm: 2014.12.05 @ 14:04:03  
Time Off Btm: 2014.12.05 @ 17:39:33

**TEST COMMENT:** IF: Fair Blow , BOB in 9 minutes  
IS: No Blow Back  
FF: Weak Blow , BOB in 12 minutes  
FSI: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.59	103.73	Initial Hydro-static
1	39.29	103.20	Open To Flow (1)
32	308.89	113.69	Shut-In(1)
78	1173.72	113.48	End Shut-In(1)
78	315.51	113.26	Open To Flow (2)
124	536.09	116.05	Shut-In(2)
216	1184.19	114.89	End Shut-In(2)
216	1524.35	114.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	Water	2.49
682.00	MCW 30%M 70%W	9.57
31.00	SOSWCM 2%O 28%W 70%M	0.43

\* Recovery from multiple tests

## Gas Rates

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