



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220415  
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: \_\_\_\_\_

1220415

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	Trek AEC, LLC
Well Name	Hy Ground 1-4
Doc ID	1220415

Tops

Name	Top	Datum
Anhydrite	1304	+595
Topeka	2828	-929
King Hill	2920	-1021
Queen Hill	2975	-1076
Heebner	3032	-1133
Lansing	3072	-1173
Muncie Creek	3188	-1289
Stark Shale	3252	-1353
Base/Kansas City	3292	-1393
Arbuckle	3360	-1461





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
155 N Market Ste 710  
Wichita, KS 67202  
ATTN: Doug Davis

**Sec. 4-8s-18w Rooks, KS**

**Hy Ground #1-4**

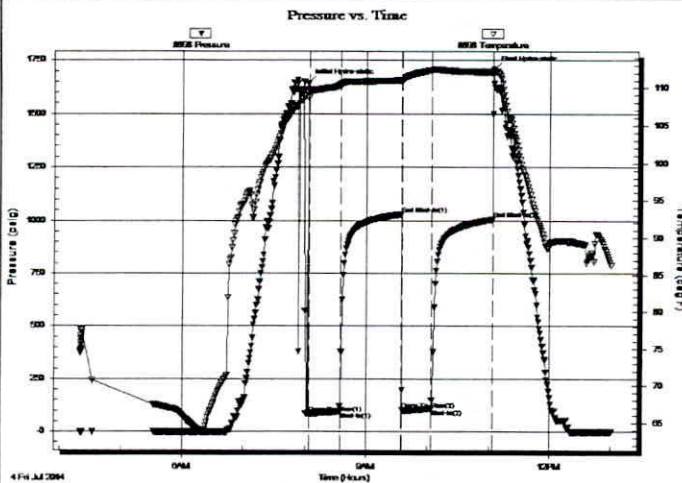
Job Ticket: 59386      **DST#: 1**  
Test Start: 2014.07.04 @ 04:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 08:03:30  
Time Test Ended: 13:00:19  
Interval: **3348.00 ft (KB) To 3373.00 ft (KB) (TVD)**  
Total Depth: 3373.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition:  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Phillip Gage  
Unit No: 77  
Reference Elevations: 1899.00 ft (KB)  
1894.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8898      Outside**  
Press@RunDepth: 109.36 psig @ 3349.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.07.04      End Date: 2014.07.04      Last Calib.: 2014.07.04  
Start Time: 04:20:01      End Time: 13:00:19      Time On Btm: 2014.07.04 @ 08:03:20  
Time Off Btm: 2014.07.04 @ 11:04:30

TEST COMMENT: 30-IF-Built to 2 1/4"  
60-ISI-No Return  
30-FF-Built to 2"  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.26	109.71	Initial Hydro-static
1	86.93	108.64	Open To Flow (1)
31	95.79	110.36	Shut-In(1)
91	1029.66	111.01	End Shut-In(1)
93	102.67	110.92	Open To Flow (2)
121	109.36	112.33	Shut-In(2)
181	1005.28	112.12	End Shut-In(2)
182	1707.27	112.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volum. (bbl)
120.00	WOCM, 15%w, 15%o, 70%m	0.59
73.00	OCM, 20%o, 80%m	1.02
5.00	O, 100%o	0.07
0.00	GIP, 63'	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Trek AEC, LLC

**Sec. 4-8s-18w Rooks, KS**

155 N Market Ste 710  
Wichita, KS 67202

**Hy Ground #1-4**

Job Ticket: 59386

**DST#: 1**

ATTN: Doug Davis

Test Start: 2014.07.04 @ 04:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	WOCM, 15%w, 15%o, 70%m	0.590
73.00	OCM, 20%o, 80%m	1.024
5.00	O, 100%c	0.070
0.00	GIP, 63'	0.000

Total Length: 198.00 ft

Total Volume: 1.684 bbf

Num Fluid Samples: 0

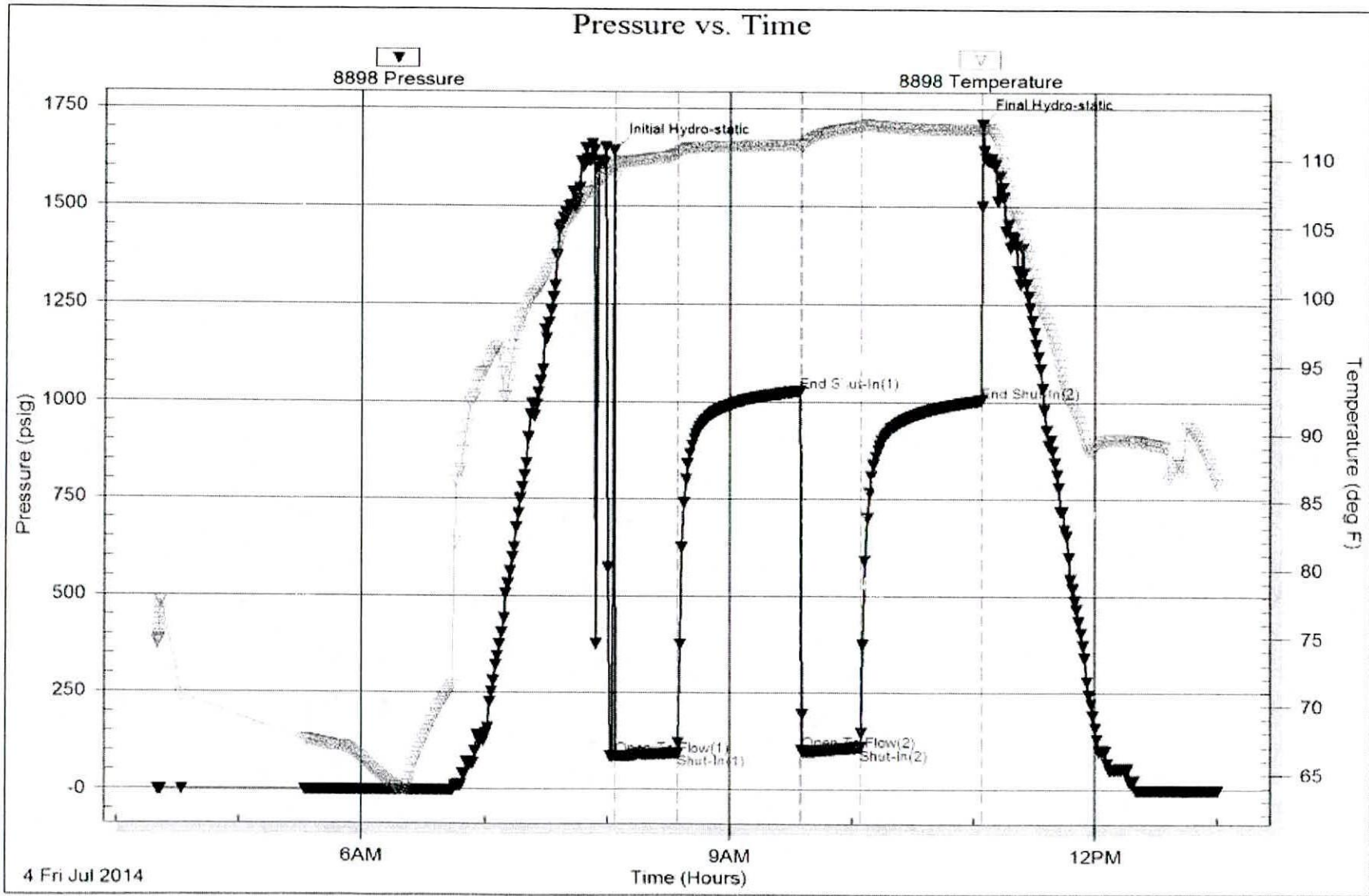
Num Gas Bombs: 0

Serial #:

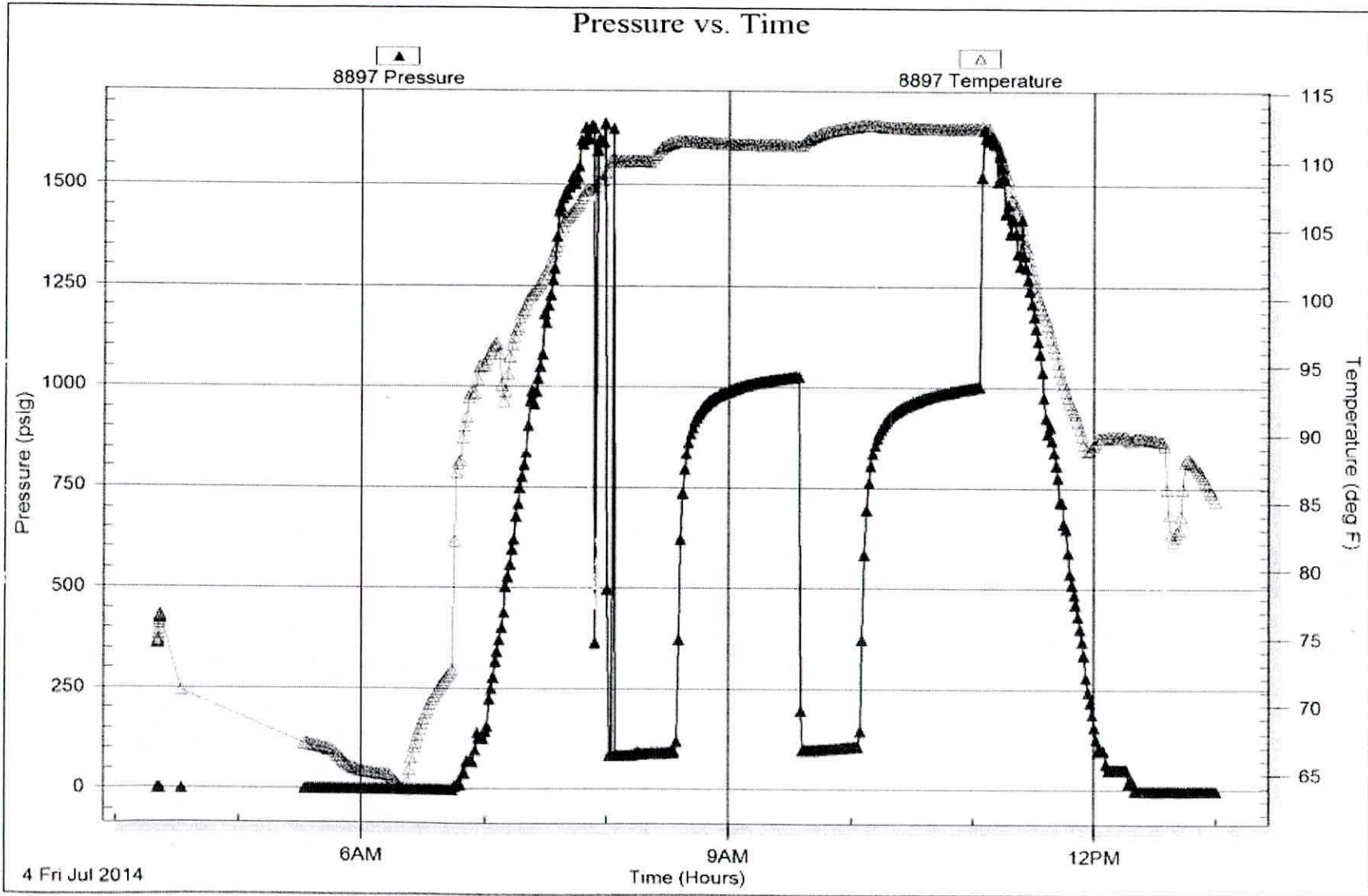
Laboratory Name:

Laboratory Location:

Recovery Comments:









**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 6/30/2014  
 Invoice # 353  
 P.O.#:  
 Due Date: 7/30/2014  
 Division: Russell

# Invoice

Contact:  
**TREK AEC, LLC**  
 Address/Job Location:

Reference:  
 HY GROUND 1-4

Description of Work:  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	160	\$ 2,662.35	Yes				
Pump Truck Mileage-Job to Nearest Camp	38	\$ 423.86	No				
Bulk Truck Matl-Material Service Charge	168	\$ 375.53	No				
Calcium Chloride	5	\$ 311.04	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	38	\$ 248.03	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 5,115.94  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (767.39)

SubTotal for Taxable Items:	\$ 2,590.78
SubTotal for Non-Taxable Items:	\$ 1,757.77
<b>Total:</b>	<b>\$ 4,348.55</b>
Tax:	\$ 159.33

6.16% Rooks County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 4,507.88**  
**Applied Payments:**  
**Balance Due: \$ 4,507.88**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 353

Phone 785-483-2025  
Cell 785-324-1041

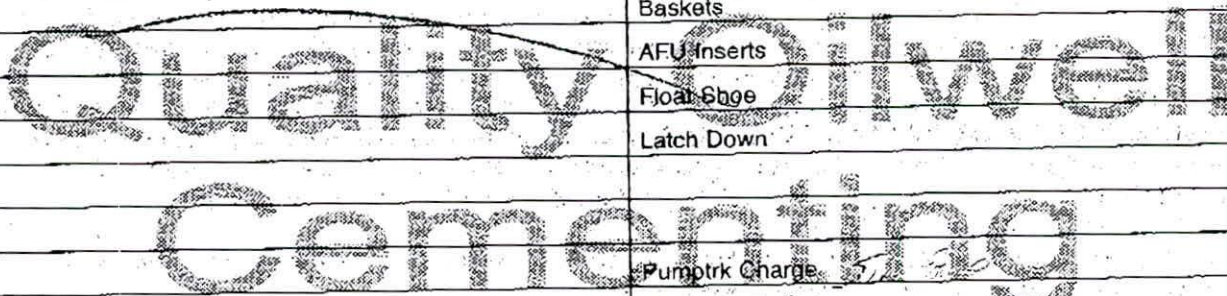
Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-30-14				Rooks	KS		12:00 P.M.
Location <i>Plains 10 9W 1N 17S 17E 12N</i>							

Lease <i>H4 Ground</i>	Well No. <i>1-4</i>	Owner
Contractor <i>WW #16</i>		To Quality Oilwell Cementing, Inc. 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 <i>Surface</i>		Charge To <i>TREK AEC LLC</i>
Hole Size <i>12 1/4</i>	T.D. <i>252</i>	Street
Csg. <i>8 5/8</i>	Depth <i>261</i>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left In Csg. <i>15</i>	Shoe Joint	Cement Amount Ordered <i>160 Lbm 3/44 2/CFL</i>

Meas Line	Displace <i>15.36</i>	Common <i>160</i>
<b>EQUIPMENT</b>		Poz. Mix
Pumptrk <i>20</i>	No. Cementer <i>1</i> Helper <i>1</i>	Gel. <i>3</i>
Bulktrk	No. Driver <i>1</i>	Calcium <i>5</i>
Bulktrk <i>15</i>	No. Driver <i>1</i> Driver <i>1</i>	Hulls

<b>JOB SERVICES &amp; REMARKS</b>		Salt
Remarks:		Flowseal
Rat Hole		Kol-Seal
Mouse Hole		Mud CLR 48
Centralizers		CFL-117 or CD110 CAF 38
Baskets		Sand
D/V or Port Collar		Handling <i>20</i>
<i>8 5/8 on bottom of casing</i>		Mileage
<i>Mix Heavy Displace</i>		

<b>FLOAT EQUIPMENT</b>	
<i>Cement Centralized</i>	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge <i>5.00</i>
	Mileage <i>28</i>



X Signature <i>M. B. B. B.</i>	Tax
	Discount
	Total Charge



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone:785-324-1041 fax:785-483-1087  
 Email: cementing@ruraltel.net

Date: 7/5/2014  
 Invoice # 258

P.O.#:  
 Due Date: 8/4/2014  
 Division: Russell

# Invoice

Contact: *Ther AEC*  
 Address/Job Location:

Reference:  
 H Y GROUND 1-4

Description of Work:  
 PROD STRING BOTTOM STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,312.85	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	38	\$248.03	No
Two Stage Cement Collar, 5 1/2"	1	\$ 4,001.18	Yes	Salt (Fine)	13	\$202.83	Yes
Pro-C Cement	125	\$ 2,375.00	Yes	Flo Seal	31	\$69.29	Yes
Gilsonite	675	\$ 1,131.62	Yes				
Mud Clear	500	\$ 413.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	38	\$ 423.86	No				
5 1/2" Turbolizer	6	\$ 388.94	Yes				
5 1/2" Basket	1	\$ 384.47	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 342.00	Yes				
Bulk Truck Matl-Material Service Charge	139	\$ 310.71	No				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 260.35	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 11,854.46  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,778.17)

SubTotal for Taxable Items: \$ 8,125.33  
 SubTotal for Non-Taxable Items: \$ 1,950.96  
 Total: \$ 10,076.29  
 Tax: \$ 499.71

6.16% Rooks County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 10,576.00**  
**Applied Payments:**  
**Balance Due: \$ 10,576.00**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
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# 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. 258

Date 7-5-14	Sec. 4	Twp. 8	Range 18	County Rooks	State KS	On Location	Finish 10:00AM
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Location Plainville, 9N, 1W, 1/2S, 1W, 1/2N, E12

Lease HY Ground	Well No. 1-4	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor WW #6		
Type Job Bottom stage		
Hole Size 7 7/8	T.D. 3415	Charge To Trek AFC
Csg. 5 1/2 15.5 #	Depth 2409	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint 42.28	Cement Amount Ordered 125 ss @ proc, 10% salt, 5%

Meas Line	Displace 80.12 bbl	gilsonite, 1/4 # Flow
EQUIPMENT		Common 12.5 proc-c

Pumptrk 17	No.	Cementer		Poz. Mix
		Helper Lonnie & David		
Bulktrk 14	No.	Driver Ryan		Gel.
		Driver Travis		Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt 13
Rat Hole		Flowseal 31 #
Mouse Hole		Kol-Seal 62.5 #
Centralizers 1,2,3,4,6,52		Mud CLR 48 500gal
Baskets 48		CFL-117 or CD110 CAF 38
D/V or Port Collar on pin of 49 at 1378		Sand
Pipe on bottom broke circulation. Pumped 500 gal Mud CLR 48 with 10 bbl for behind it. Mixed 125 ss @ proc, 10% salt, 5% gilsonite 1/4 # Flow. Shut down washed pump and lines. Released plug and displaced with 80 bbl tv. Plug landed and held.		Handling 139
		Mileage

EQUIPMENT		Slide Shoe
		Centralizer 6 turbos
		Baskets 1
		AFU inserts
		Float Shoe 1
		Latch Down 1
		1 DV tool

lift pressure 700 psi		Pumptrk Charge	prod string	Bottom stage
Plug landed at 1400 psi		Mileage 38		
Signature <u>Thad Stan</u>		Tax		
		Discount		
		Total Charge		



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone:785-324-1041 fax:785-483-1087  
 Email: cementing@ruraltel.net

Date: 7/5/2014  
 Invoice # 259

P.O.#:  
 Due Date: 8/4/2014  
 Division: Russell

# Invoice

Contact: **Trek AEC**  
 Address/Job Location:

Reference:  
 H Y GROUND 1-4

Description of Work:  
 PROD STRING TOP STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,312.65	No				
mon, MetsoBeds, Plater, Gel, FloSeal, Calcium)	290	\$ 6,197.13	Yes				
Bulk Truck Matl-Material Service Charge	350	\$ 782.35	No				
Pump Truck Mileage-Job to Nearest Camp	38	\$ 423.88	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	38	\$ 248.03	No				
Flo Seal	87	\$ 194.47	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 9,158.49  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,373.77)

SubTotal for Taxable Items: \$ 5,432.86  
 SubTotal for Non-Taxable Items: \$ 2,351.86

Total: \$ 7,784.72  
 Tax: \$ 334.12

6.16% Rooks County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 8,118.84**  
**Applied Payments:**  
**Balance Due: \$ 8,118.84**

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# 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. 259

Date <b>7-5-14</b>	Sec. <b>4</b>	Twp. <b>8</b>	Range <b>18</b>	County <b>ROCKS</b>	State <b>KS</b>	On Location	Finish <b>11:30AM</b>
				Location <b>Plainville, 9N, 1W, 1/2 S, 1W, 1/2 N, E N 2</b>			

Lease <b>HY Ground</b>	Well No. <b>1-4</b>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <b>WW #6</b>		
Type Job <b>Top stage</b>		
Hole Size <b>7 7/8</b>	T.D. <b>3415</b>	Charge To <b>Trek AEC</b>
Csg. <b>5 1/2 15.5 #</b>	Depth <b>3409</b>	Street
Tbg. Size	Depth	City State
Tool <b>DV</b>	Depth <b>1338</b>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <b>350 SX QMDC, 1/4 # Flo</b>
Meas Line	Displace <b>31.8161</b>	<b>used 290</b>

### EQUIPMENT

Pumptrk <b>17</b>	No.	Cement Helper <b>Louise W Ryan</b>	Poz. Mix
Bulktrk <b>21</b>	No.	Driver <b>David</b>	Gel.
Bulktrk <b>PC</b>	No.	Driver <b>TRAVIS</b>	Calcium

### JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <b>30 SX</b>	Salt
Mouse Hole	Flowseal <b>87 #</b>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
<b>Open tool and break circulation. Plugged Rat hole with 30 SX. Hooked to 5 1/2 and mixed 290 SX. Shut down washed pump and lines. Released plug and displaced with 32661. Plug landed and held</b>	Sand
<b>lift pressure at 600 psi</b>	Handling <b>350</b>
<b>Plug landed at 1400 psi</b>	Mileage

### FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	<b>prod stage Top Stage</b>
Mileage	<b>38</b>

Signature <b>Thad Stea</b>	Tax
	Discount
	Total Charge