



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

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

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

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

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

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

Total 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**

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



1097104

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

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

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend KS 67530-0047

ATTN: Derek Patterson

### **Ney Unit # 7**

#### **32 15s 12w Russell**

Start Date: 2012.08.27 @ 20:00:00

End Date: 2012.08.28 @ 02:30:00

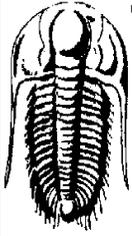
Job Ticket #: 47649                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.28 @ 02:57:09







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

**Tool Information**

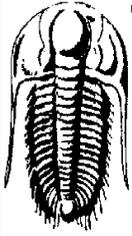
Drill Pipe:	Length: 2727.00 ft	Diameter: 3.80 inches	Volume: 38.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 39.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2968.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	132.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			2941.00	
Shut In Tool	5.00		Fluid	2946.00	
Hydraulic tool	5.00			2951.00	
Jars	5.00			2956.00	
Safety Joint	3.00			2959.00	
Packer	5.00		Inside	2964.00	28.00      Bottom Of Top Packer
Packer	4.00			2968.00	
Stubb	1.00			2969.00	
Perforations	4.00			2973.00	
Change Over Sub	1.00			2974.00	
Recorder	0.00	8355	Inside	2974.00	
Recorder	0.00	8674	Outside	2974.00	
Blank Spacing	94.00			3068.00	
Change Over Sub	1.00			3069.00	
Bullnose	3.00			3072.00	104.00      Bottom Packers & Anchor

**Total Tool Length: 132.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

**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:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
122.00	Oil Speck Mud	0.600

Total Length: 122.00 ft      Total Volume: 0.600 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

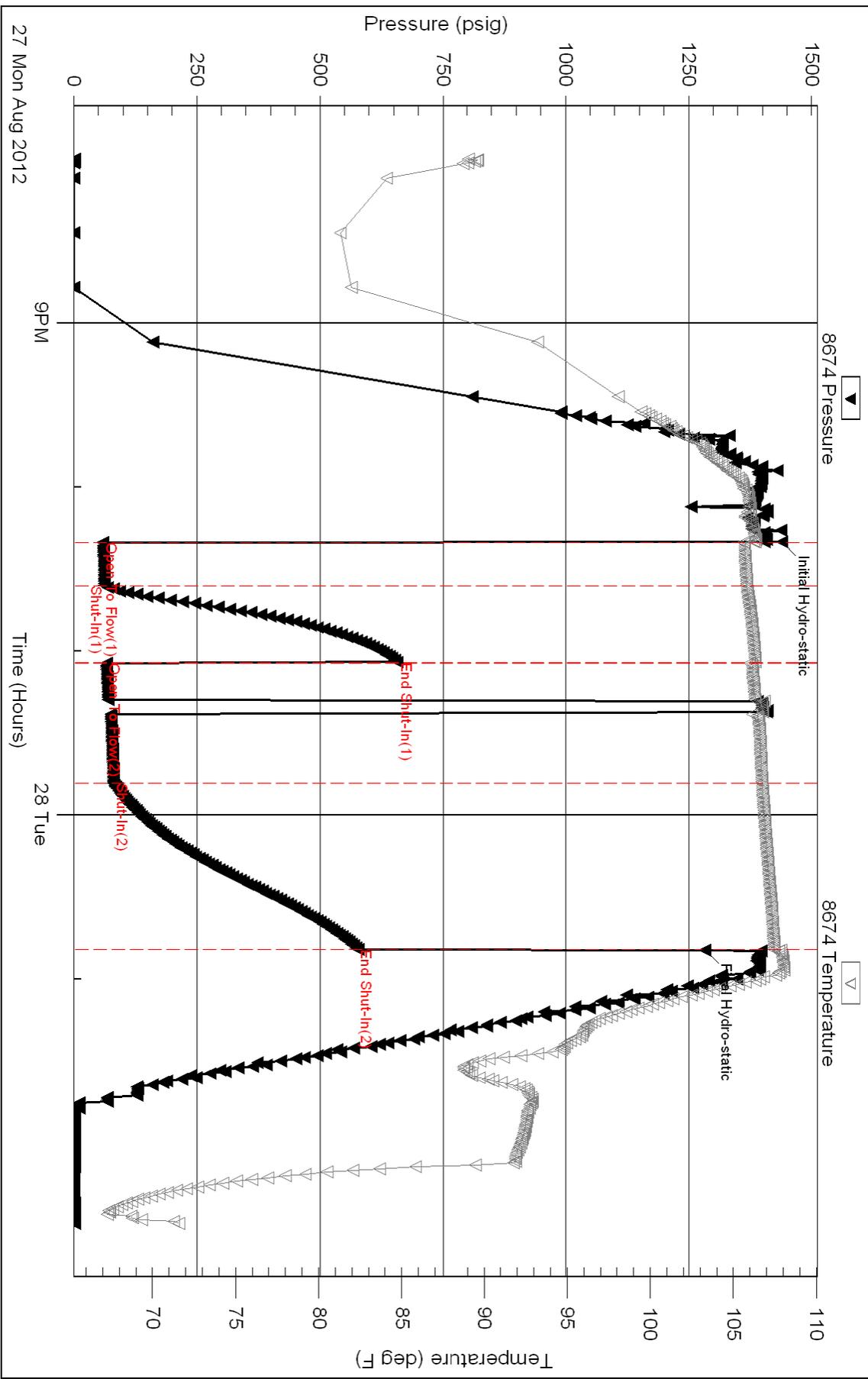
Serial #: 8674

Outside Carmen Schmitt Inc

Ney Unit # 7

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47649

Printed: 2012.08.28 @ 02:57:11





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend KS 67530-0047

ATTN: Derek Patterson

### **Ney Unit # 7**

#### **32 15s 12w Russell**

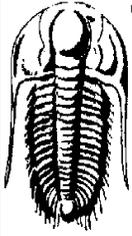
Start Date: 2012.08.28 @ 15:22:00

End Date: 2012.08.28 @ 21:29:00

Job Ticket #: 47650                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.28 @ 21:53:28



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend KS 67530-0047  
 ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
 Job Ticket: 47650      **DST#: 2**  
 Test Start: 2012.08.28 @ 15:22:00

## GENERAL INFORMATION:

Formation: **LKC "G- J "**  
 Deviated: No Whipstock: 1859.00 ft (KB)  
 Time Tool Opened: 17:02:45  
 Time Test Ended: 21:29:00  
 Interval: **3116.00 ft (KB) To 3219.00 ft (KB) (TVD)**  
 Total Depth: 3219.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 58  
 Reference Elevations: 1859.00 ft (KB)  
 1854.00 ft (CF)  
 KB to GR/CF: 5.00 ft

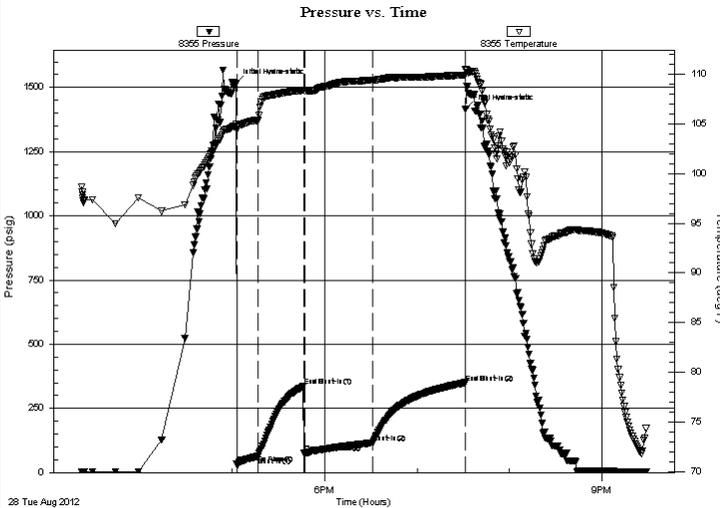
## Serial #: 8355

Inside

Press@RunDepth: 116.46 psig @ 3121.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.08.28      End Date: 2012.08.28      Last Calib.: 2012.08.28  
 Start Time: 15:22:05      End Time: 21:28:29      Time On Btm: 2012.08.28 @ 17:02:30  
 Time Off Btm: 2012.08.28 @ 19:31:30

TEST COMMENT: 15-IFP- BOB in 11min  
 30-ISIP- No Blow  
 45-FFP- BOB in 5 1/2 min  
 60-FSIP- Weak Surface Blow Died in 5min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.55	104.93	Initial Hydro-static
1	32.82	104.36	Open To Flow (1)
14	62.69	105.33	Shut-In(1)
44	335.68	108.37	End Shut-In(1)
45	75.19	108.33	Open To Flow (2)
89	116.46	109.39	Shut-In(2)
149	350.28	109.89	End Shut-In(2)
149	1417.17	110.50	Final Hydro-static

## Recovery

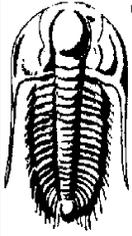
Length (ft)	Description	Volume (bbl)
205.00	OCM 12%o 88%m	1.01
0.00	464 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

**Tool Information**

Drill Pipe:	Length: 2852.00 ft	Diameter: 3.80 inches	Volume: 40.01 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 41.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3116.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	103.00 ft				
Tool Length:	131.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3089.00	
Shut In Tool	5.00		Fluid	3094.00	
Hydraulic tool	5.00			3099.00	
Jars	5.00			3104.00	
Safety Joint	3.00			3107.00	
Packer	5.00		Inside	3112.00	28.00      Bottom Of Top Packer
Packer	4.00			3116.00	
Stubb	1.00			3117.00	
Perforations	3.00			3120.00	
Change Over Sub	1.00			3121.00	
Recorder	0.00	8355	Inside	3121.00	
Recorder	0.00	8674	Outside	3121.00	
Blank Spacing	94.00			3215.00	
Change Over Sub	1.00			3216.00	
Bullnose	3.00			3219.00	103.00      Bottom Packers & Anchor

**Total Tool Length: 131.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

## 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:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
205.00	OCM 12%o 88%m	1.008
0.00	464 GIP	0.000

Total Length: 205.00 ft      Total Volume: 1.008 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

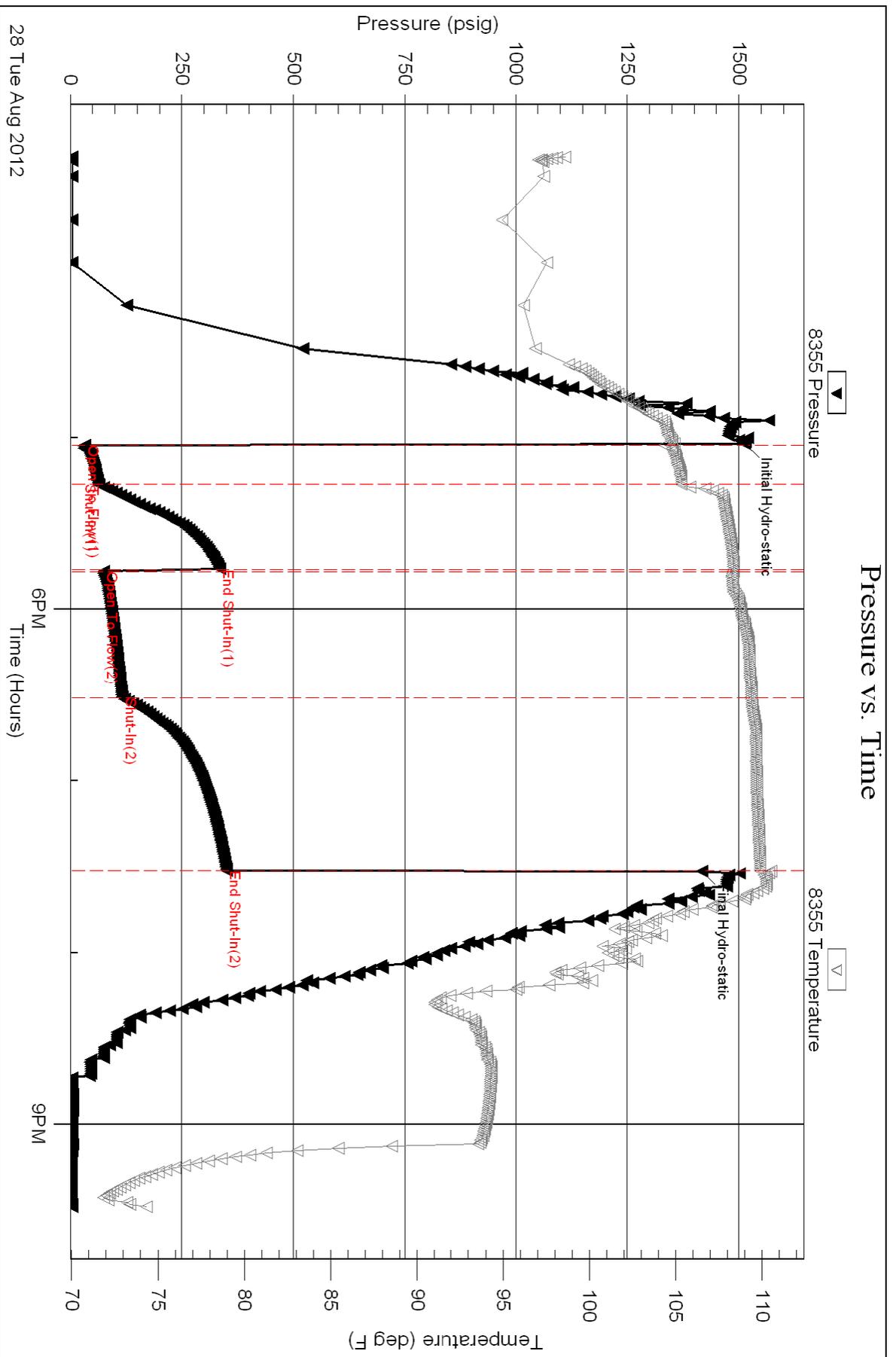
Serial #: 8355

Inside

Carmen Schmitt Inc

Ney Unit # 7

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47650

Printed: 2012.08.28 @ 21:53:30

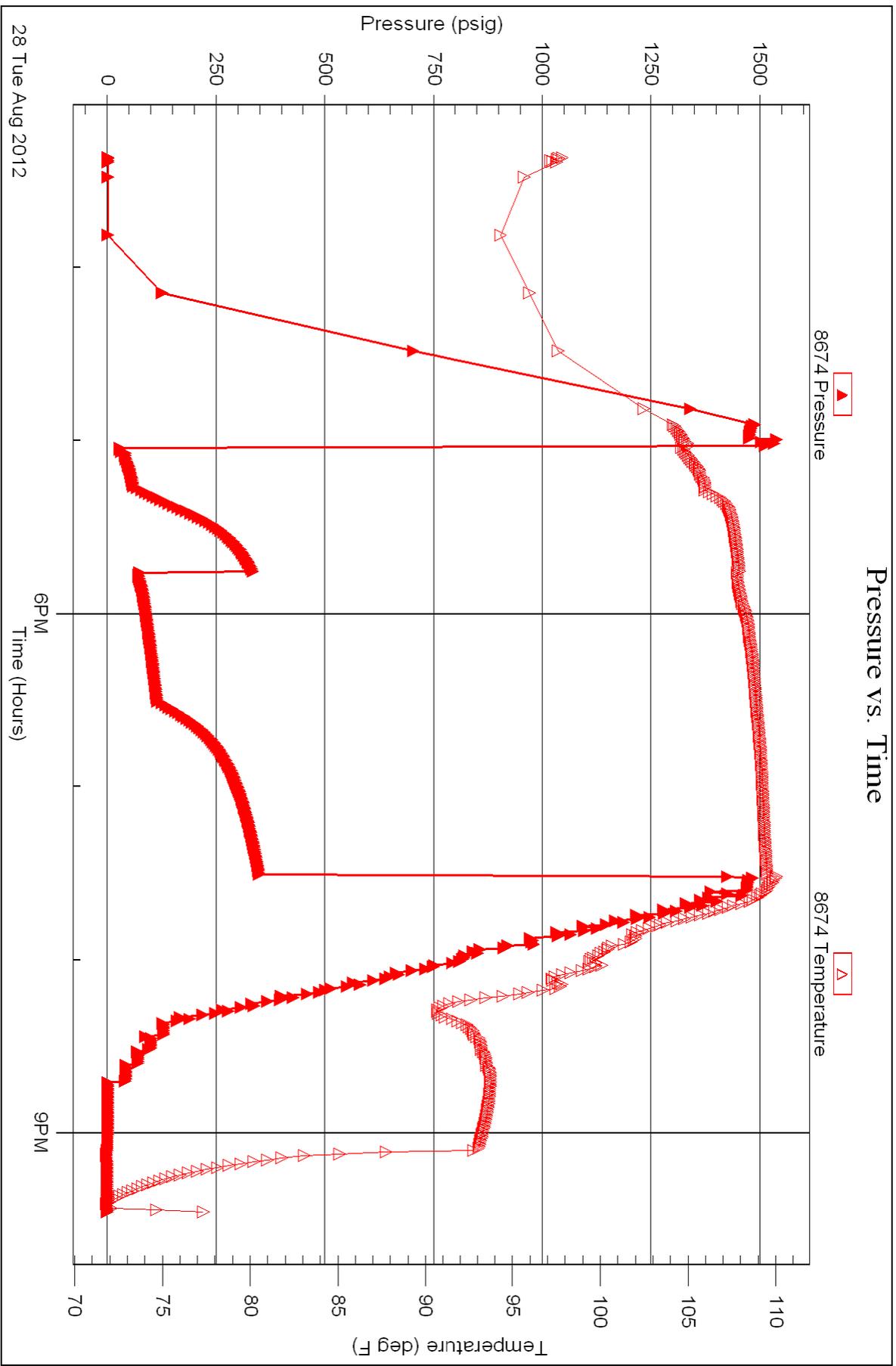
Serial #: 8674

Outside

Carmen Schmitt Inc

Ney Unit # 7

DST Test Number: 2



# ***CARMEN SCHMITT, INC.***

Scale 1:240 (5"=100') Imperial

Well Name: Ney Unit #7  
Location: Sec. 32 - T15S - R12W, Russell County, KS  
Licence Number: API No.: 15-167-23821-0000  
Spud Date: August 23, 2012  
Surface Coordinates: 2518' FNL & 2300' FWL; 3-D Location

Region: Hall-Gurney  
Drilling Completed: August 29, 2012

## Bottom Hole Coordinates:

Ground Elevation (ft): 1854'      K.B. Elevation (ft): 1859'  
Logged Interval (ft): 2600'      To: 3450'      Total Depth (ft): 3452' (LTD)  
Formation: Lansing, Precambrian Quartzite  
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: Carmen Schmitt, Inc.  
Address: P.O. Box 47  
Great Bend, KS 67530

## GEOLOGIST

Name: Derek W. Patterson  
Company: Valhalla Exploration, LLC  
Address: 133 N. Glendale  
Wichita, KS 67208

## REMARKS

After review of the open hole logs, sample evaluation, and DST results for the Ney Unit #7, it was decided upon by operator to run 5 1/2" production casing to further evaluate the multiple Lansing zones encountered while drilling said well. Should well prove to be non-commercial, it will be completed as a saltwater disposal well in the Precambrian Quartzite.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

# CARMEN SCHMITT, INC.

## General Information

### Service Companies

Drilling Contractor: Mallard, J V - Rig #1  
Tool Pusher: Lavon Urban  
Daylight Driller: Mark Elsen  
Evening Driller: Justin McDonald  
Morning Driller: Frank Symank  
Relief: Kyle Stout

Gas Detector: None

Drilling Fluid: Mud-Co/Service Mud  
Engineer: Rick Hughes

Logging Company: Pioneer Energy Services  
Engineers: Daniel Martin/Chris Desaire  
Logs Ran: DI, CDNL, Micro

Testing Company: Trilobite Testing, Inc.  
Tester: Jim Svaty

### Deviation Survey

Depth	Survey
572'	1/2°
3072'	2°
RTD - 3450'	1 3/4°

### Pipe Strap

Depth	Pipe Strap
3072'	0.8' Short to Board

### Bit Record

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Smith	RT	RT	0'	572'	572'	8.25
2	7 7/8"	Smith	F27	PX0863	572'	3450'	2878'	74

### Surface Casing

8.24.2012 Ran 14 joints of new 23 #/ft 8 5/8" casing, tallying 565', set @ 572' KB.  
Cemented with 250 sacks common (2% gel, 3% calcium chloride). Cement did circulate.  
Plug down @ 1045 hrs 8.24.12. By Quality Oil Well Cementing, Inc.

### Production Casing

8.30.2012 Ran 82 joints of new 14 #/ft 5 1/2" production casing, tallying 3529.33', laid 1 down, set @ 3437.43' KB.  
Cemented with 70 sacks SMD followed by 100 sacks. Cement did circulate.  
By Swift Services, Inc.

# CARMEN SCHMITT, INC.

## Daily Drilling Report

Date	7:00 AM Depth	Previous 24 Hours of Operations
8.27.2012	2900'	<p>Drilling and connections Topeka. Geologist Derek W. Patterson on location, 2230 hrs 8.26.12. Drilling and connections Topeka, King Hill, Queen Hill, and into Plattsmouth zone. CFS @ 2900' (Plattsmouth).</p> <p>Made 660' over past 24 hrs of operations.</p> <p>WOB: 30-32k RPM: 65 PP: 800 SPM: 60</p> <p>DMC: \$3,766.60 CMC: \$6,051.90</p>
8.28.2012	3112'	<p>Resume drilling and connections Plattsmouth, Heebner, Toronto, Douglas, Brown Lime, and into Lansing. CFS @ 3050' (LKC 'B'). Resume drilling and connections Lansing. CFS @ 3072' (LKC 'C'). Decision made to run DST to evaluate the Douglas Sand and upper Lansing zones. CTCH, short trip (20 stands). CTCH, drop survey, strap out for DST #1, 1840 hrs 8.27.12. TIH with tool. Conducting DST #1, test successful. TIH with bit, CTCH, resume drilling following DST #1, 0500 hrs 8.28.12. Drilling and connections Lansing.</p> <p>Made 212' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 800-900 SPM: 60</p> <p>DMC: \$924.75 CMC: \$6,976.65</p>
8.29.2012	3318'	<p>Drilling and connections Lansing. CFS @ 3136' (LKC 'G'). Resume drilling and connections Lansing. CFS @ 3219' (LKC 'J'). Decision made to run DST to evaluate Lansing 'G' - 'J' zones. CTCH, TOH for DST #2, 1420 hrs 8.28.12. TIH with tool. Conducting DST #2, test successful. TIH with bit, CTCH, resume drilling following DST #2, 2345 hrs 8.28.12. Drilling and connections lower Lansing, Base Kansas City, and into Basal Penn Conglomerate. CFS @ 3300' (BPCG). Resume drilling Basal Penn Conglomerate. CFS @ 3307' (BPCG). Resume drilling and connections Basal Penn Conglomerate. CFS @ 3318' (Conglomerate).</p> <p>Made 206' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 900 SPM: 60</p> <p>DMC: \$999.60 CMC: \$7,976.25</p>
8.30.2012	RTD - 3450' LTD - 3452'	<p>CFS @ 3318' (BPCG). Resume drilling Basal Penn Conglomerate. CFS @ 3328' (BPCG). Resume drilling Basal Penn Conglomerate and into Precambrian Quartzite. CFS @ 3340' (Precambrian). Resume drilling and connections Precambrian Quartzite ahead to RTD of 3450'. Production casing on location. RTD reached, 1800 hrs 8.29.12. CTCH, drop survey, TOH for open hole logging operations, 1945 hrs 8.29.12. Rig up loggers. Commence open hole logging operations, 2115 hrs 8.29.12. Open hole logging operations complete, 0045 hrs 8.30.12. Orders received to run 51/2" production casing for further evaluation of the Ney Unit #7. If well proves to be non-commercial, it will be completed as a saltwater disposal well in the Precambrian Quartzite.</p> <p>Geologist Derek W. Patterson off location, 0110 hrs 8.30.12.</p> <p>Made 132' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 900 SPM: 60</p> <p>DMC: \$304.15 CMC: \$8,280.40</p>

# CARMEN SCHMITT, INC.

## Well Comparison Sheet

Formation	Drilling Well				Comparison Well				Comparison Well			
	Carmen Schmitt, Inc. - Ney Unit #7 2518' FNL & 2300' FWL Sec. 32 - T15S - R12W				Rock Island - Hilgenberg #6 NW NE SW Sec. 32 - T15S - R12W				Rock Island - Hafeman #1 'OWWO' SE SW NW Sec. 32 - T15S - R12W			
	1859 KB				Oil - LKC 'G' & 'J' 1860 KB		Structural Relationship		Oil - LKC 'A', 'C', 'H' 1871 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	798	1061	798	1061								
Topeka	2661	-802	2661	-802	2651	-791	-11	-11	2673	-802	0	0
King Hill	2786	-927	2786	-927	2773	-913	-14	-14	2799	-928	1	1
Queen Hill	2852	-993	2853	-994	2838	-978	-15	-16	2865	-994	1	0
Plattsmouth	2875	-1016	2874	-1015	2860	-1000	-16	-15	2887	-1016	0	1
Heebner	2938	-1079	2939	-1080	2926	-1066	-13	-14	2951	-1080	1	0
Toronto	2956	-1097	2956	-1097	2944	-1084	-13	-13	2969	-1098	1	1
Douglas	2970	-1111	2969	-1110	2957	-1097	-14	-13	2981	-1110	-1	0
Brown Lime	3022	-1163	3023	-1164	3010	-1150	-13	-14	3038	-1167	4	3
Lansing	3031	-1172	3034	-1175	3020	-1160	-12	-15	3047	-1176	4	1
LKC 'B'	3036	-1177	3039	-1180	3024	-1164	-13	-16	3054	-1183	6	3
LKC 'C'	3060	-1201	3064	-1205	3048	-1188	-13	-17	3077	-1206	5	1
LKC 'D'	3078	-1219	3083	-1224	3068	-1208	-11	-16	3094	-1223	4	-1
LKC 'F'	3100	-1241	3103	-1244	3088	-1228	-13	-16	3114	-1243	2	-1
LKC 'G'	3121	-1262	3119	-1260	3104	-1244	-18	-16	3135	-1264	2	4
Muncie Creek	3162	-1303	3162	-1303	3149	-1289	-14	-14	3178	-1307	4	4
LKC 'H'	3170	-1311	3168	-1309	3159	-1299	-12	-10	3184	-1313	2	4
LKC 'I'	3185	-1326	3186	-1327	3176	-1316	-10	-11	3205	-1334	8	7
LKC 'J'	3204	-1345	3204	-1345	3195	-1335	-10	-10	3226	-1355	10	10
Stark	3228	-1369	3227	-1368	3218	-1358	-11	-10	3244	-1373	4	5
LKC 'K'	3241	-1382	3242	-1383	3233	-1373	-9	-10	3258	-1387	5	4
Hushpuckney	3264	-1405	3264	-1405	3254	-1394	-11	-11	3282	-1411	6	6
LKC 'L'	3271	-1412	3270	-1411	3262	-1402	-10	-9	3291	-1420	8	9
Base Kansas City	3282	-1423	3282	-1423	3270	-1410	-13	-13	3298	-1427	4	4
Basal Penn Conglomerate	3293	-1434	3293	-1434	3276	-1416	-18	-18	3316	-1445	11	11
Arbuckle	Not Present				Not Present				Not Present			
Precambrian Quartzite	3335	-1476	3336	-1477	3281	-1421	-55	-56	3368	-1497	21	20
Total Depth	3450	-1591	3452	-1593	3289	-1429	-162	-164	3378	-1507	-84	-86

Precambrian tops are sample tops; no log coverage across zone.



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend KS 67530-0047  
 ATTN: Derek Patterson

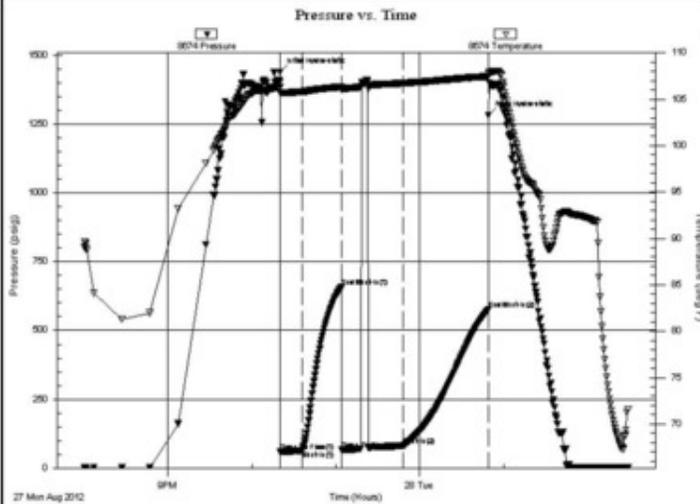
**32 15s 12w Russell**  
**Ney Unit # 7**  
 Job Ticket: 47649 **DST#: 1**  
 Test Start: 2012.08.27 @ 20:00:00

## GENERAL INFORMATION:

Formation: **Douglas Sand & LKC "**  
 Deviated: No Whipstock: 1859.00 ft (KB)  
 Time Tool Opened: 22:20:20  
 Time Test Ended: 02:30:00  
 Interval: **2968.00 ft (KB) To 3072.00 ft (KB) (TVD)**  
 Total Depth: 3072.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 58  
 Reference Elevations: 1859.00 ft (KB)  
 1854.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8674 Outside**  
 Press@RunDepth: 81.13 psig @ 2974.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.27 End Date: 2012.08.28 Last Calib.: 2012.08.28  
 Start Time: 20:00:05 End Time: 02:29:20 Time On Btm: 2012.08.27 @ 22:20:00  
 Time Off Btm: 2012.08.28 @ 00:49:20

**TEST COMMENT:** 15-IFP- Surface Blow Building to 3in  
 30-ISIP- No Blow  
 45-FFP- No Blow in 12min Flushed Surface Blow Died in 38min  
 60-FSP- No Blow



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1440.14	106.24	Initial Hydro-static
1	59.60	105.63	Open To Flow (1)
16	62.89	105.81	Shut-In(1)
44	658.17	106.32	End Shut-In(1)
45	66.48	105.99	Open To Flow (2)
89	81.13	106.73	Shut-In(2)
150	577.56	107.47	End Shut-In(2)
150	1283.52	107.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	Oil Speck Mud	0.60

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

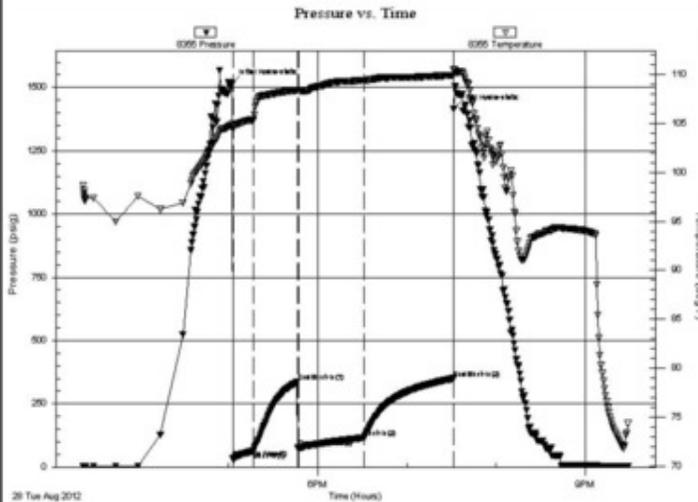
**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

## GENERAL INFORMATION:

Formation: **LKC "G-J"**  
Deviated: No Whipstock: 1859.00 ft (KB)  
Time Tool Opened: 17:02:45  
Time Test Ended: 21:29:00  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 58  
Interval: **3116.00 ft (KB) To 3219.00 ft (KB) (TVD)**  
Total Depth: 3219.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1859.00 ft (KB)  
1854.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8355      Inside**  
Press@RunDepth: 116.46 psig @ 3121.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.28      End Date: 2012.08.28      Last Calib.: 2012.08.28  
Start Time: 15:22:05      End Time: 21:28:29      Time On Btm: 2012.08.28 @ 17:02:30  
Time Off Btm: 2012.08.28 @ 19:31:30

**TEST COMMENT:** 15-IFP- BOB in 11min  
30-ISIP- No Blow  
45-FFP- BOB in 5 1/2 min  
60-FSP- Weak Surface Blow Died in 5min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.55	104.93	Initial Hydro-static
1	32.82	104.36	Open To Flow (1)
14	62.69	105.33	Shut-In(1)
44	335.68	108.37	End Shut-In(1)
45	75.19	108.33	Open To Flow (2)
89	116.46	109.39	Shut-In(2)
149	350.28	109.89	End Shut-In(2)
149	1417.17	110.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
205.00	OCM 12%o 88% m	1.01
0.00	464 GP	0.00

\* Recovery from multiple tests

## Gas Rates

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

### ROCK TYPES

#### LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltstn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol

unknown lith

Red shale

#### FOSSIL

- Oomoldic
- Fuss
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### MINERAL

Sity

- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chilt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil



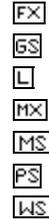
Sulphur Tuff

#### STRINGER

- Red shale
- Sh
- Sandylms
- Lms
- Gryslt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Meta
- Sltstng
- Ssstng

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy



#### OIL SHOW

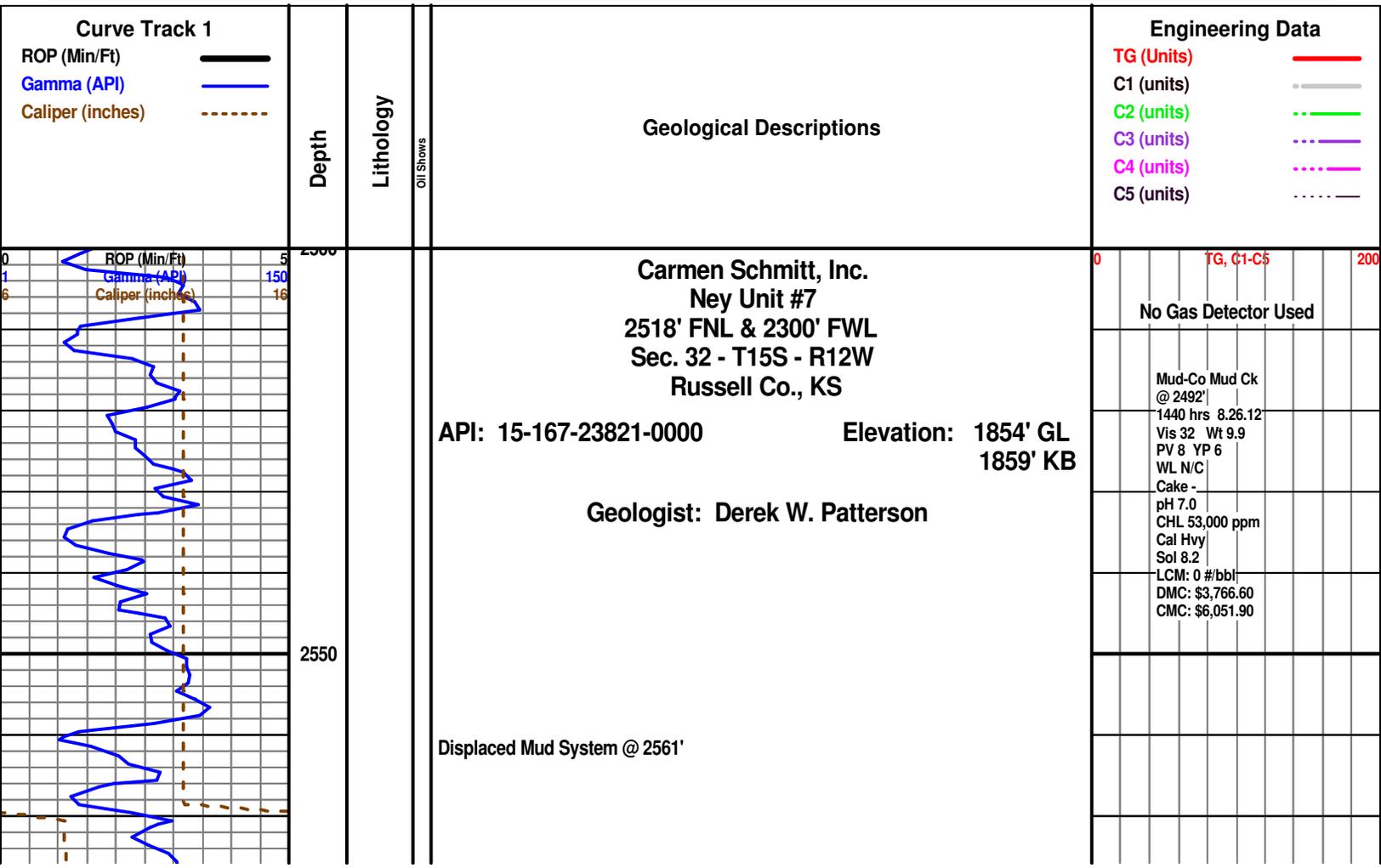
- Gas show
- Good
- Fair
- Poor
- Dead

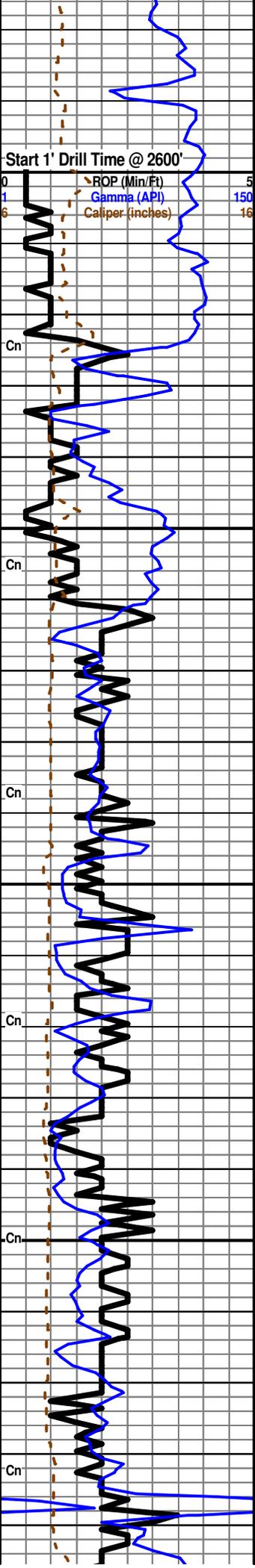
#### INTERVAL

- Dst
- Core
- Dst
- Straddle test t

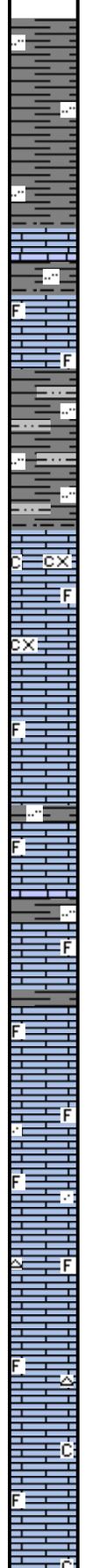
#### EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations





2600  
2650  
2700  
2750



**Start 10' Wet & Dry Samples @ 2600'**

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty.

Limestone: gray dk gray cream brown, very dense matrix, microxln, barren, no visible porosity, no shows noted, no fluorescence.

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty.

Limestone: gray dk gray cream brown, very dense matrix, microxln, fossiliferous to barren, some pieces very shaley, poor-no visible porosity, no shows noted, dull pale yellow mineral fluorescence in scattered pieces.

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty, with some scattered Siltstone: gray lt gray, speckled, dense matrix, vfgained, heavily micaceous, fair intergranular porosity, no shows noted, no fluorescence.

**Topeka 2661 (-802)**

Limestone: lt tan gray cream, softer sub-chalky to dense tight matrix, sub-fossiliferous to barren, heavy 2ndary xln in majority of pieces, fair-poor interxln porosity, no shows noted, no fluorescence.

Vis: 49  
Wt: 8.7  
LCM: 1/2 #/bbl

Predominately Limestone: gray dk gray, dense matrix, microxln, barren to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with scattered Limestone as above.

Limestone: gray dk gray, dense matrix, microxln, barren to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with some interbedded Shale: gray dk gray, blocky to rounded, mostly soft, silty in part.

Limestone: gray cream mottled, softer sub-chalky to dense tight matrix, fossiliferous to barren, fair-poor interxln porosity, no shows noted, spotty bright yellow mineral fluorescence in few pieces, with fair amount of Limestone as above.

**Geologist Derek W. Patterson On Location, 2230 hrs 8.26.12**

Limestone: cream lt cream off white lt gray some mottled, sub-chalky dense matrix, micro-vfxln, mostly fossiliferous to heavily fossiliferous, fair amount of 2ndary xln along edges, fair interxln porosity, no shows noted, poor spotty bright lt yellow mineral fluorescence.

Vis: 54  
Wt: 8.8

Limestone: cream lt cream, mostly dense matrix, vfxln, fossiliferous to heavily fossiliferous, scattered arenaceous material, fair amount of 2ndary xln, some imbedded calcite crystals, overall fair interxln porosity, no shows noted, scattered poor mineral fluorescence.

Limestone: cream lt cream tan, dense cherty matrix, micro-vfxln, fossiliferous to heavily fossiliferous, scattered loose fossils in sample, fair interfossiliferous porosity, no shows noted, no fluorescence, with some scattered Chert: cream tan, fresh and sharp, fossiliferous in part.

Limestone: cream gray off white mottled, sub-chalky slightly dense matrix, micro-vfxln, most fossiliferous, fair amount of imbedded calcite crystals and scattered 2ndary xln fill, fair interxln porosity in most, no shows noted, scattered poor mineral fluorescence.

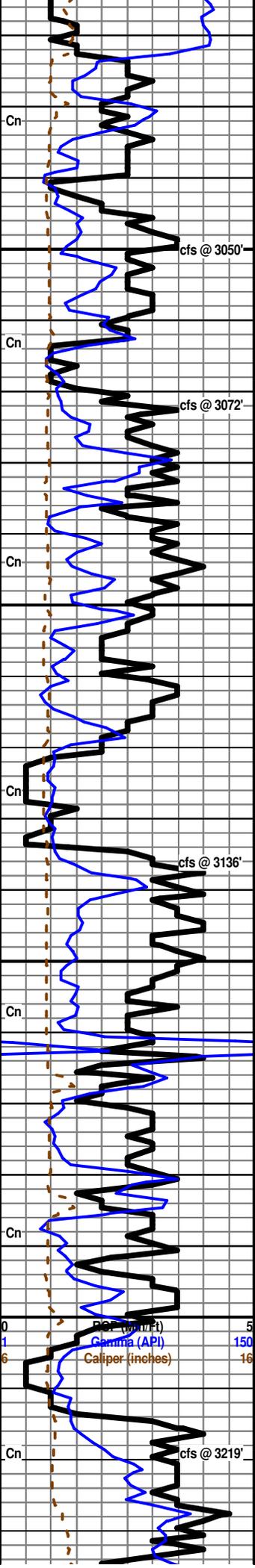
**King Hill 2786 (-927)**

Shale: black dk gray, carbonaceous, blocky, hard to waxy, good show gas bubbles.

Shale: gray dk gray, blocky to rounded, mostly hard to waxy, with scattered Siltstone: gray lt gray, speckled, dense matrix, vfgained, heavily micaceous, fair intergranular porosity, no shows noted, no

0	TG, C1-C5	200
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Shale: gray dk gray, blocky to waxy, very shiny in part, with scattered limestone: gray lt gray, speckled, dense matrix, vfgained, heavily micaceous, fair intergranular porosity, no shows noted, no fluorescence, sample washes gray.

**Brown Lime 3023 (-1164)**

Limestone: tan brown, dense tight matrix, microxln, sub-fossiliferous to barren, overall poor visible porosity, no shows noted, no fluorescence, grading to Shale: gray dk gray, blocky to rounded, hard to soft, abundant silty material.

**Lansing 3034 (-1175)**

3050' cfs 0" - Limestone: lt cream lt tan, mostly dense matrix, microxln, oolitic in part, poor interxln porosity, no shows noted, very poor mineral fluorescence, no odor.

3050' 20" - Limestone: cream lt cream, dense xln matrix, microxln, oolitic with good oomoldic development, solution vugs, good oomoldic/vuggy porosity, even lt brown saturated stain, poor show lt brown oil from porosity with fair increase upon break, spotty bright lt yellow fluorescence, good bluish-white cut fluorescence, fair odor.

3050' cfs 40"/60" - Limestone: cream lt cream lt tan, dense tight matrix, microxln, fossiliferous/oolitic, scattered poor oomoldic development, some 2ndary xln, overall poor oomoldic porosity, no shows noted, poor dull mineral fluorescence, no odor.

Limestone: as above, grading to predominately Shale: gray dk gray, blocky to rounded, mostly soft, some fissile in part.

3072' cfs 20"/40" - Limestone: cream off white lt tan, dense to slightly friable matrix, micro-vfxln, heavily oolitic with good oomoldic development, solution vugs, heavy 2ndary xln, fair-good oomoldic/vuggy porosity, slight golden brown saturated stain, poor-fair show brown oil upon break in few pieces, spotty bright lt yellow fluorescence, fair forced bluish-white cut fluorescence in show rocks, faint odor.

Limestone: gray lt gray, dense tight matrix, micro-cryptoxln, mostly barren, poor visible porosity, no shows noted, no fluorescence, no odor.

Shale: gray dk gray, blocky to rounded, mostly softer to waxy.

Limestone: gray cream tan, dense tight matrix, heavily oolitic, abundant 2ndary xln fill around oolites, overall poor interoolitic porosity, few pieces with poor golden brown saturated stain in porosity, no live shows noted, no fluorescence, no odor, with some scattered Chert: cream tan, fresh and sharp, oolitic/fossiliferous.

Limestone: gray dk gray dk cream, dense tight matrix, micro-cryptoxln, most oolitic/fossiliferous with scattered lithographic non-descript, shaley in part, poor visible porosity, no shows noted, no fluorescence, with Chert: cream tan gray, fresh and sharp, oolitic to barren, and interbedded Shale: gray, blocky, hard to soft.

Limestone: lt cream off white, dense to sub-friable matrix, microxln, heavily oolitic, scattered small solution vugs, good interoolitic/vuggy porosity in most, spotty-even golden brown saturated stain in porosity, very poor show lt brown live oil upon break, spotty bright lt yellow fluorescence, faint odor, with scattered Chert as above.

Limestone: lt cream off white, dense tight cherty matrix, micro-cryptoxln, barren, poor visible porosity, no shows noted, no fluorescence, no odor, sample washes white.

3136' cfs 20"/40"/60" - Limestone: lt cream off white, sub-friable matrix, micro-vfxln, oolitic with good-excellent oomoldic/vug development, good oomoldic/vuggy porosity with fair amount of 2ndary xln fill, spotty lt brown saturated stain in porosity of most, poor-fair show oil from porosity with fair-good increase upon break, spotty bright lt yellow fluorescence, good forced bluish-white to milky-white cut fluorescence, strong odor, with some scattered loose Chalk, sample washes white.

Limestone: cream lt tan, dense tight matrix, microxln, sub-fossiliferous/oolitic, overall poor interxln/visible porosity, some 2ndary xln along edges, no shows noted, no fluorescence.

Limestone: cream lt cream lt gray some mottled, dense sub-chalky to xln matrix, micro-vfxln, fossiliferous/oolitic, fair-poor interxln porosity, no shows noted, no fluorescence, with abundant Chert: black dk gray dk brown, fresh and sharp, barren.

**Muncie Creek 3162 (-1303)**

Shale: black, carbonaceous, blocky, hard to waxy, good show bleeding gas bubbles.

Shale: gray dk gray some black, carbonaceous in part, blocky to rounded, mostly soft with some waxy.

Limestone: cream tan, dense matrix, microxln, heavily bioclastic, overall fair interfossiliferous porosity with majority filled by heavy 2ndary xln around fossils, no shows noted, poor spotty bright lt yellow mineral fluorescence, no odor.

Shale: gray dk gray, blocky to rounded, mostly soft.

Limestone: off white lt cream, sub-friable matrix, micro-vfxln, heavily fossiliferous/oolitic, some fair oomoldic/vug development, overall good interxln/oomoldic/vuggy porosity, good golden brown saturated stain, poor show oil from porosity with slight increase upon break, spotty bright lt yellow fluorescence, fair forced bluish-white cut fluorescence, faint odor, with Limestone: cream lt cream, dense matrix, microxln, sub-fossiliferous, poor visible porosity, no shows noted.

3219' cfs 0" - Shale: gray dk gray, blocky to rounded, mostly soft.

3219' cfs 20" - Limestone: lt cream off white, sub-friable matrix, microxln, oolitic with good-excellent oomoldic/vug development, good oomoldic/vuggy porosity with fair amount of 2ndary xln fill in pore space, fair lt brown saturated stain in porosity, fair show oil with good increase upon break, even-spotty bright lt yellow fluorescence, streaming milky-white cut fluorescence, moderate-strong odor.

3219' cfs 40"/60" - Limestone: cream lt cream off white, dense tighter matrix, microxln, sub-oolitic to barren, overall poor visible porosity, no shows noted, no fluorescence, carrying faint odor from above.

Limestone: cream lt cream, dense tight matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, no odor.

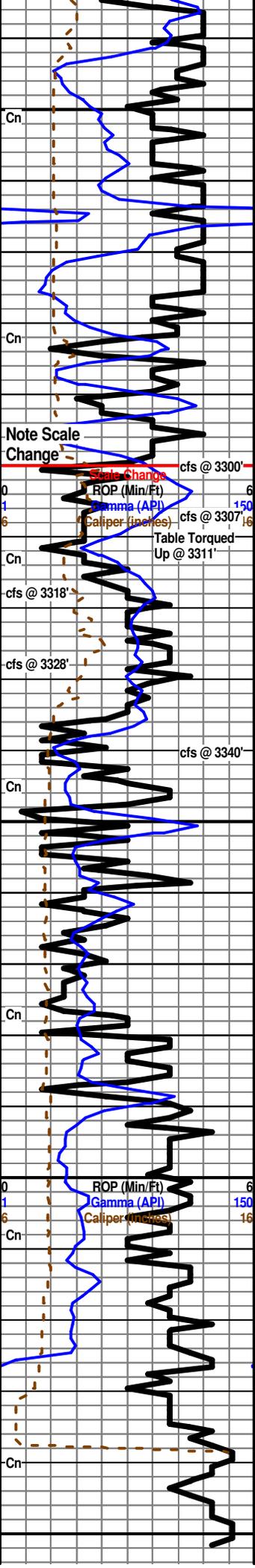
**Stark 3227 (-1368)**

Shale: black dk gray gray, carbonaceous in part, blocky to rounded, nearly all soft, poor show bleeding gas bubbles upon break in carbonaceous material.

Mud-Co Mud Ck @ 3050'			
1320 hrs 8.27.12			
Vis 42 Wt 9.0			
PV 10 YP 12			
WL 9.2			
Cake 1/32			
pH 10.0			
CHL 3,800 ppm			
Cal 20-			
Sol 4.8			
LCM: 1 #/bbl			
DMC: \$924.75			
CMC: \$6,976.65			

0 TG, C1-C5 200

Mud-Co Mud Ck @ 3215'			
1230 hrs 8.28.12			
Vis 45 Wt 9.1			
PV 13 YP 9			
WL 8.8			
Cake 1/32			
pH 10.5			
CHL 3,800 ppm			



Predominately Shale: gray dk gray lt green, mostly rounded and softer with some scattered blocky fissile material, silty in part.

Limestone: cream lt cream off white tan, dense tight matrix, microxln, sub-fossiliferous to barren, heavy amount of 2ndary xln along edges, poor visible porosity, no shows noted, no fluorescence, no odor.

Limestone: cream lt tan, dense tight matrix, microxln, sub-fossiliferous to barren, heavy amount of 2ndary xln along edges, poor visible porosity, no shows noted, no fluorescence, no odor.

**Hushpuckney 3264 (-1405)**

Shale: trace black, carbonaceous, blocky, hard and waxy, slight show bleeding gas bubbles upon break, with Shale: gray dk gray dk green, blocky to rounded, hard to softer and waxy, silty/pyritic in part.

Limestone: cream lt tan, dense tight matrix, microxln, sub-fossiliferous to barren, fair amount of 2ndary xln fill, poor visible porosity, no shows noted, no fluorescence, no odor.

**Base Kansas City 3282 (-1423)**

Shale: gray dk gray brick red dk green, blocky to rounded, most softer, silty/pyritic.

Limestone: tan brown, dense tight cherty matrix, micro-vfxln, barren, poor visible porosity, no shows noted, no fluorescence, no odor.

**Basal Penn Conglomerate 3293 (-1434)**

3300' cfs 20"/40" - INFLUX Conglomerate -- Shale: as above, with Limestone: tan lt cream, dense tight cherty matrix, micro-vfxln, barren, poor visible porosity, no shows noted, no fluorescence, and scattered Clay: red, round and soft, some sandy.

3307' cfs 20"/40" - Continued Conglomerate as above, with scattered Limestone: lt cream off white, dense, microxln, barren, small vugs, 2ndary xln along edges, fair porosity, slight stain in vugs, poor show heavy brown oil with fair increase upon break, even lt yellow fluorescence, fair bluish-white cut fluorescence, no odor.

3318' cfs 20"/40" - Conglomerate -- Mixed Shale, Chert, and Limestone, no shows noted, with scattered erosional Quartzite: pink lt pink red gray lt gray clear, dense and hard, fractured, fair-good amount of magnetite and shale/mica inclusions, poor visible porosity, no live shows noted, no fluorescence, no cut fluorescence, no odor, samples washes reddish-brown.

3328' cfs 20"/40"/60" - Conglomerate -- Mixed Shale, Chert, Limestone, and continued scattered erosional Quartzite, no shows noted, no odor, samples washes reddish-brown.

3340' cfs 20" - Conglomerate -- Mixed as above, no shows noted, no fluorescence.

**Precambrian Quartzite 3336 (-1477)**

3340' cfs 40"/60" - INFLUX - Quartz/Quartzite: loose clear grains, most large and uncemented, angular to sub-rounded, poorly sorted, fair-good intergranular porosity in cemented clusters, no shows noted, no fluorescence, no cut fluorescence, no odor.

INFLUX - Quartzite: clear/white lt pink lt gray lt red, dense and hard, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white lt pink lt gray lt red, dense and hard, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white lt pink lt gray lt red, dense and hard with some granular surface texture, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor, with scattered Schist: metallic lt red gray lt gray maroon, mostly hard, flakey.

Quartzite: predominately clear/white with some scattered lt pink, dense and hard with some granular surface texture, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard with some granular surface texture, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair-poor surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair-poor surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

**LTD 3452 (-1593)**

Car 20  
Sol 5.5  
LCM: 1 #/bbl  
DMC: \$999.60  
CMC: \$7,976.25

Vis: 48  
Wt: 9.2  
LCM: 1 #/bbl

Mud-Co Mud Ck  
@ 3386'  
1255 hrs 8.29.12  
Vis 49 Wt 9.2  
PV 15 YP 12  
WL 9.2  
Cake 1/32  
pH 10.0  
CHL 5,000 ppm  
Cal 20  
Sol 6.1  
LCM: 1 #/bbl  
DMC: \$304.15  
CMC: \$8,280.40

Vis: 50  
Wt: 9.1  
LCM: 1 #/bbl

**RTD 3450 (-1591)**

Orders Received to Run 5 1/2" Production Casing For Further Evaluation

Geologist Derek W. Patterson Off Location, 0115 hrs 8.30.12

**Respectfully Submitted,  
Derek W. Patterson**



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
8/30/2012	23271

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#7	Ney Unit	Russell	Mallard JV	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	6.00	300.00
578D-L	Pump Charge - Long String - 3435 Feet				1	Job	1,500.00	1,500.00
402-5	5 1/2" Centralizer				8	Each	70.00	560.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar - 1502 Feet				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				500	Lb(s)	0.20	100.00T
284	Calseal				5	Sack(s)	35.00	175.00T
285	CFR-1				50	Lb(s)	4.00	200.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
325	Standard Cement				100	Sacks	13.50	1,350.00T
330	Swift Multi-Density Standard (MIDCON II)				100	Sacks	16.50	1,650.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				511.5	Ton Miles	1.00	511.50
Subtotal								11,091.50
Sales Tax Russell County							8.30%	695.54
								12910.0007
								710/43
								Cement Pdn Csg
								Well File

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$11,787.04
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CHARGE TO: **CARMEN SCAMITT**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET N° 23271

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS.**  
 WELL/PROJECT NO.:  
 LEASE: **NEY UNIT #7**  
 COUNTY/PARISH: **RUSSELL**  
 STATE: **KS.**  
 CITY: **BEAVER, KS**  
 DATE: **30 AUG 12**  
 OWNER:  
 TICKET TYPE:  SERVICE  SALES  
 CONTRACTOR: **MALLARD DRILLING**  
 RIG NAME/NO.:  
 SHIPPED VIA:  
 DELIVERED TO:  
 ORDER NO.:  
 WELL TYPE: **OIL**  
 WELL CATEGORY: **DEVELOPMENT**  
 JOB PURPOSE: **5 1/2 LONGSTRING**  
 WELL PERMIT NO.:  
 WELL LOCATION: **4N, 12W, 1/2N, E IUTO**  
 REFERRAL LOCATION:  
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575					MILEAGE #110	50	MIL	6		300.00
578					PUMP CHARGE	1	JOB	3435	FT	1500.00
402					CENTRALIZERS	8	EA	70		560.00
403					CEMENT BASKETS	2	EA	250		500.00
404					PORT COLLAR	1	EA	1502	FT.	2400.00
406					LATCH DOWN PLUG & BAFFLE	1	EA	250		250.00
407					INSERT FLOAT SHAOE W/AUTO FILL	1	EA	350		350.00
281					MUD FLUSH	500	9AL	1	25	625.00
221					LIQUID KCL	2	9AL	25		50.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 x *Carmen Scamitt*  
 DATE SIGNED: **30 Aug 12** TIME SIGNED: **1015**  A.M.  P.M.

**REMIT PAYMENT TO:**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1 6535.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2 4556.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal 11,091.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Russell TAX 18.3% 695.54
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 11,787.04
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR: *[Signature]* APPROVAL: \_\_\_\_\_  
 Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23271

CUSTOMER: CARMEN SCHMITZ WELLY UNIT #7 DATE: 30 AUG 12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF				UM				
276						FLOCELE	50	lbs			2 <sup>50</sup>	100 <sup>00</sup>
283						SALT	500	lbs			2 <sup>20</sup>	100 <sup>00</sup>
284						CALSEAL	5	sq			35 <sup>00</sup>	175 <sup>00</sup>
285						CFR-1	50	lbs			4 <sup>00</sup>	200 <sup>00</sup>
290						DAIR	2	sq			35 <sup>00</sup>	70 <sup>00</sup>
325						STANDARD CEMENT EA2	100	sq			13 <sup>50</sup>	1350 <sup>00</sup>
330						SWIFT MULTI DENSITY	100	sq			16 <sup>50</sup>	1650 <sup>00</sup>
581						SERVICE CHARGE				CUBIC FEET	2 <sup>00</sup>	400 <sup>00</sup>
583						MILEAGE CHARGE				TON MILES	1 <sup>00</sup>	511 <sup>50</sup>
						TOTAL WEIGHT	20460			LOADED MILES	50	

CONTINUATION TOTAL 4556<sup>50</sup>

JOB LOG

SWIFT Services, Inc.

DATE 30 AUG 12 PAGE NO.

CUSTOMER CARMEN SCAMITT

WELL NO.

LEASE NEY UNIT # 7

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 23271

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0530							ON LOCATION
	0645							START PIPE 5 1/2 - 14" RTD @ 3450 LTD @ 3452 SHOE JT 20.88 SET @ 3435 CENTRALIZERS 3, 5, 7, 8, 9, 11, 13, 48 BASKETS 2, 46 PORT COLLAR TOP OF JT # 47 @ 1520
	0811				✓			DROP BALL CIRCULATE
	0854	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 20 Bbl RCL FLUSH
	0858		7					PLUG RH - 30 SX
	0900	4	25 1/2		✓			MIX 70 SX SMD
		4	24		✓			MIX 100 SX EA2
	0916							WASH OUT PUMP & LINES
	0918	6			✓			START DISPLACING PLUG.
	0938		83		✓		1400	PLUG DOWN PSI UP - LATCH PLUG IN
	0940				✓			RELEASE PSI - DRY
	0945							WASH TRUCK
	1015							JOB COMPLETE.
								THANKS #110
								JASON JEFF JOHN



P. O. Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300



# Invoice

DATE	INVOICE #
9/13/2012	22830

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#7	Ney Unit	Russell		Oil	Development	Cement Port Collar	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	6.00	300.00
576D-D	Pump Charge - Port Collar - 1520 Feet				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	16.50	3,300.00T
276	Flocele				50	Lb(s)	2.00	100.00T
104	5 1/2" Port Collar Tool Rental				1	Each	250.00	250.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				497.55	Ton Miles	1.00	497.55
	Subtotal							6,167.55
	Sales Tax Russell County						8.30%	308.76
	12950.0007							
	730/43							
	Cement port collar							
	Well Rite							

**We Appreciate Your Business!**

**Total**

\$6,476.31



CHARGE TO:  
*Norman Schmitt*  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 22830

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>Hays, KS</i> 2. <i>Ness City, KS</i>	WELL/PROJECT NO. # 7	LEASE <i>Ney Unit</i>	COUNTY/PARISH <i>Russell</i>	STATE <i>KS</i>	CITY	DATE <i>9-13-12</i>	OWNER
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>N/Bear, KS</i>	ORDER NO.	
	WELL TYPE <i>Dil</i>	WELL CATEGORY <i>in field</i>	JOB PURPOSE <i>Cement Port Collar 1500'</i>	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	50		mi		6000	30000
576 D		1			Pump Charge - CMT Port Collar	1		hr	1500	135000	135000
29D		1			D-Air	2		gal		3500	7000
330		2			SWD Cement	200		SKS	19852	1650	330000
276		2			Flocele	50		lbs		200	10000
109		2			Port Collar Tool Rental	1		hr	5 1/2 in		25000
581		2			Service Charge	200		SKS	19902	200	40000
583		2			Drayage	50		mi	49755	100	49755

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Paul J. Hutchinson*  
 DATE SIGNED *9-13-12* TIME SIGNED *09:30*  
 A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	616855
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					<del>597755</del>
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	647631

*Russell*  
TAX 8.3%

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Norm Schmitt* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-13-12 PAGE NO. 7

CUSTOMER *Carson Schmitt* WELL NO. # *17* LEASE *Ney Unit* JOB TYPE *Cement Port Collar* TICKET NO. *22830*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>09:30</i>					<i>2 7/8</i>	<i>5 1/2</i>	<i>On location with P.C tool</i>
								<i>P.C @ 1530 = 8.8 Tbs 17 BBL <sup>For</sup> Casing/Block</i>
	<i>11:00</i> <i>12:15</i>					<i>200</i>	<i>200</i>	<i>Setup Tks</i>
		<i>3</i>	<i>3</i>			<i>c</i>	<i>200</i>	<i>Tst P.C closed - Blowout Rubber 200*</i>
							<i>c</i>	<i>Open P.C - In rule</i>
		<i>3</i>	<i>3</i>			<i>250</i>		<i>Hook to 2 7/8" Tbs</i>
								<i>Start H/d Ahead 3 BBL Have Returns</i>
			<i>95</i>					<i>Start SMD cut.</i>
			<i>10</i>					<i>cut CIR @ 170 SKS @ 11.2 #/gal</i>
			<i>7</i>					<i>Mix 30 SKS @ 13 #/gal</i>
								<i>Fin cut - Displ 7 BBL H/d</i>
						<i>1000</i>	<i>1000</i>	<i>Close in Tbs - Tst P.C closed</i>
								<i>Run 5 Tts Tbs.</i>
								<i>Red-out - 2 flags clean</i>
								<i>Job complete</i>
								<i>wash up &amp; Packup</i>
	<i>1400</i>							<i>170 SKS @ 11.2 #/gal to CIR.</i>
								<i>30 SKS @ 13 #/gal - tail end</i>
								<i>200 SKS Total cut used</i>

*Don T. Brown*  
*J. L.*



**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: 8/27/2012  
 Invoice # 838

P.O.#:  
 Due Date: 9/26/2012  
 Division: Russell

# Invoice

**Contact:**  
 Carmen Schmitt Inc  
**Address/Job Location:**  
 Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend Ks 67530

**Reference:**  
 NEY UNIT 7

12910.0007

**Description of Work:**  
 LONG SURFACE JOB

710/43

Cement surface csg

well site

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	250	\$ 3,311.43	Yes				
Bulk Truck Matl-Material Service Charge	264	\$ 573.26	No				
Calcium Chloride	9	\$ 465.71	Yes				
Pump Truck Mileage-Job to Nearest Camp	22	\$ 238.38	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	22	\$ 139.49	No				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Premium Gel (Bentonite)	5	\$ 88.38	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 5,923.11  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (888.47)

SubTotal for Taxable Items:	\$ 3,383.51
SubTotal for Non-Taxable Items:	\$ 1,651.14
<b>Total:</b>	<b>\$ 5,034.65</b>
<b>Tax:</b>	<b>\$ 280.83</b>

8.30% Russell County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 5,315.48**  
**Applied Payments:**  
**Balance Due: \$ 5,315.48**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

# 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. 838

Date	8-24-12	Sec.	32	Twp.	15	Range	12	County	RUSSELL	State	KANSAS	On Location		Finish	10:45 AM
Lease	NEY UNIT		Well No.	#7		Location		Russell 5 to Michael Rd 9 E							
Contractor	MALLARD				Owner	CARMEN SCHMITT 3/4 S WIND									
Type Job	SURFACE				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.										
Hole Size	12 1/4		T.D.	572'											
Csg.	8 5/8		Depth	572'											
Tbg. Size			Depth	Street P.O. Box 47											
Tool			Depth	City GREATBEND State KS, 67530											
Cement Left in Csg.			Shoe Joint	90'											
Meas Line			Displace	35 BLS		Cement Amount Ordered 250 com - 3cc - 2 GEL									

**EQUIPMENT**

Pumptrk #9	No.	Cementer	DAVE	Common	250
Bulktrk #14	No.	Driver	CODY	Poz. Mix	
Bulktrk #14	No.	Driver	CESCO	Gel.	5
				Calcium	9

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
CEMENT DID NOT CIRCULATE!	Sand
	Handling 264
	Mileage

HEAD & MANIFOLD ON LOCATION.

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Long Surpad
Mileage	22

THANK YOU!

X Signature *Mel D. [unclear]*

Tax  
Discount  
Total Charge