



KANSAS CORPORATION COMMISSION 1086878
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6768
Name: Carrie Exploration & Development, a General Partnership
Address 1: 210 W 22ND
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: RON HEROLD
Phone: (913) 961-2760
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: HERB DEINES
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 #: _____

<u>7/02/2012</u>	<u>7/07/2012</u>	<u>7/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25708-00-00
Spot Description: _____
S2 SE NE SE Sec. 25 Twp. 19 S. R. 11 East West
1325 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Barton
Lease Name: Matzek Well #: 4
Field Name: CHASE-SILICA

Producing Formation: ARBUCKLE
Elevation: Ground: 1763 Kelly Bushing: 1772
Total Depth: 3400 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 261 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1572 Feet
If Alternate II completion, cement circulated from: 1572
feet depth to: 0 w/ 500 sx cmf.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 50000 ppm Fluid volume: 550 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: BOB'S OIL SERVICE
Lease Name: SIEKER License #: 32408
Quarter NW Sec. 35 Twp. 19 S. R. 11 East West
County: BARTON Permit #: D-26497

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: Deanna Garrison Date: 01/15/2013



1086878

Operator Name: Carrie Exploration & Development, a General Partnership Lease Name: Matzek Well #: 4
 Sec. 25 Twp. 19 S. R. 11 East West County: Barton

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION LOG DUAL COMPENSATED POROSITY LOG MICRORESISTIVITY LOG	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	24	261	COMMON	175	2%GEL,3%CC
PRODUCTION	7.875	5.5	15	3391	EA2	130	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1572	60/40 POS	500	2% GEL

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
4	3282 to 3283	No Acid	

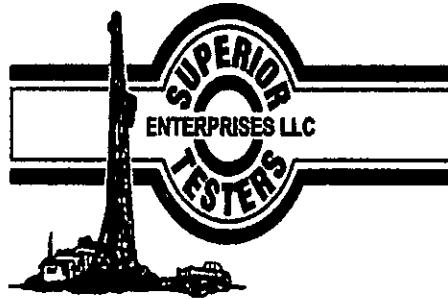
TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>3288</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>7/16/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>18</u>	Gas Mcf	Water Bbls. <u>186</u>	Gas-Oil Ratio <u>42</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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) _____	PRODUCTION INTERVAL: <u>3282 to 3283</u>
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Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, a General Partnership
Well Name	Matzek 4
Doc ID	1086878

Tops

TOPEKA	2606	-834
HEEBNER SHALE	2868	-1096
TORONTO	2890	-1118
DOUGLAS SHALE	2899	-1127
BROWN LIME	2990	-1218
LKC	3014	-1242
BKC	3249	-1477
ARBUCKLE	3281	-1509
RTD	3400	-1628
LTD	3400	-1628



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**
210 w 22nd Hays Ks 67601

ATTN:

Matzek #4

25-19-11w Barton

Start Date: 2012.07.05 @ 06:45:00

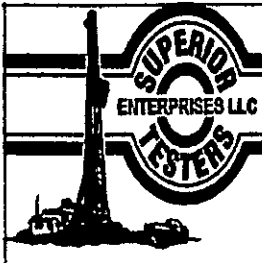
End Date: 2012.07.05 @ 11:51:00

Job Ticket #: 17355 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.05 @ 12:03:45

Carrie Exploration & Development
25-19-11w Barton
Matzek #4
DST # 1
Lansing A-B
2012.07.05



DRILL STEM TEST REPORT

Carrie Exploration & Development **25-19-11w Barton**
 210 w 22nd Hays Ks 67601 **Matzek #4**
 Job Ticket: 17355 **DST#: 1**
 ATTN: Test Start: 2012.07.05 @ 06:45:00

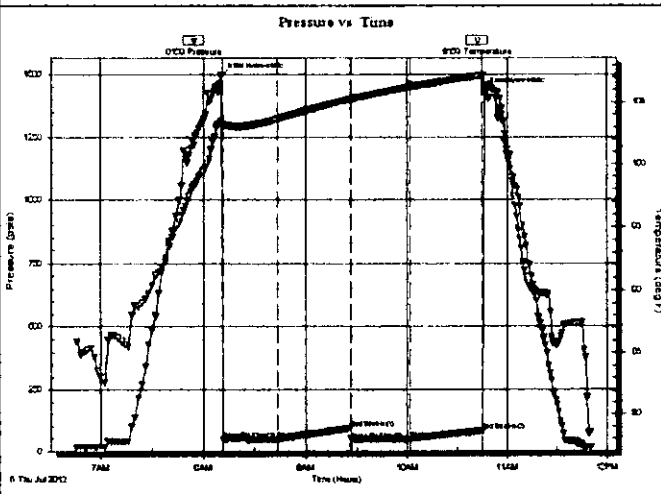
GENERAL INFORMATION:

Formation: **Lansing A-B**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **08:11:30**
 Tester: **Jared Scheck**
 Time Test Ended: **11:51:00**
 Unit No: **3320-Great Bend-**
 Interval: **2993.00 ft (KB) To 3042.00 ft (KB) (TVD)**
 Reference Elevations: **1773.00 ft (KB)**
 Total Depth: **3042.00 ft (KB) (TVD)**
1763.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: 8159

Press@RunDepth: **48.59 psia @** ft (KB) Capacity: **5000.00 psia**
 Start Date: **2012.07.05** End Date: **2012.07.05** Last Calib.: **2012.07.05**
 Start Time: **06:45:00** End Time: **11:51:00** Time On Btm: **2012.07.05 @ 08:10:30**
 Time Off Btm: **2012.07.05 @ 10:46:30**

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 into water in 30 minutes
 1st Shut-in 45 Minutes- No blow
 2nd Opening 30 Minutes-Weak blow built 1 1/2 inches into water in 30 minutes
 2nd Shut-in 45 Minutes-No blow back

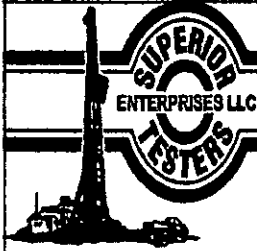


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1493.96	103.52	Initial Hydro-static
1	47.86	103.19	Open To Flow (1)
33	47.81	103.63	Shut-in(1)
76	91.63	105.22	End Shut-in(1)
77	45.25	105.25	Open To Flow (2)
111	48.59	106.22	Shut-in(2)
155	80.97	107.16	End Shut-in(2)
156	1434.08	106.31	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)

* Recovery from multiple tests



DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17355

DST#: 1

ATTN:

Test Start: 2012.07.05 @ 06:45:00

GENERAL INFORMATION:

Formation: Lansing A-B

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:11:30

Time Test Ended: 11:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jared Scheck

Unit No: 3320-Great Bend-

Interval: 2993.00 ft (KB) To 3042.00 ft (KB) (TVD)

Total Depth: 3042.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1773.00 ft (KB)

1763.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 82.21 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.05

End Date: 2012.07.05

Last Calib.: 2012.07.05

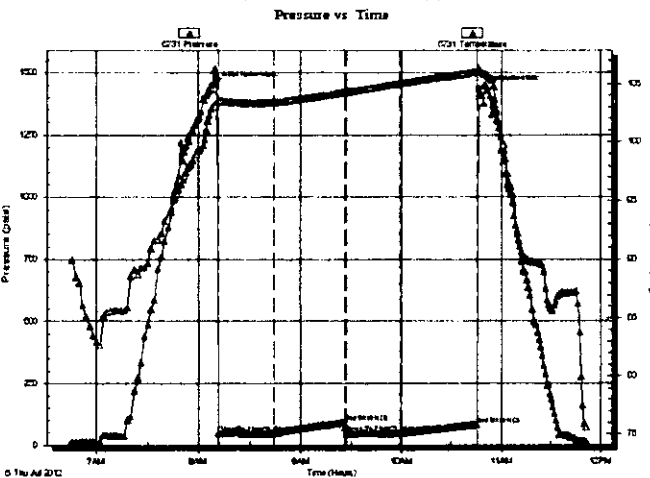
Start Time: 06:45:00

End Time: 11:52:00

Time On Btm: 2012.07.05 @ 08:10:00

Time Off Btm: 2012.07.05 @ 10:46:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 into water in 30 minutes
 1st Shut-in 45 Minutes- No blow
 2nd Opening 30 Minutes-Weak blow built 1 1/2 inches into water in 30 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1452.61	103.16	Initial Hydro-static
2	47.34	103.49	Open To Flow (1)
34	49.96	103.42	Shut-in(1)
76	93.15	104.27	End Shut-in(1)
78	46.81	104.30	Open To Flow (2)
109	48.49	105.02	Shut-in(2)
156	82.21	106.02	End Shut-in(2)
157	1437.18	106.35	Final Hydro-static

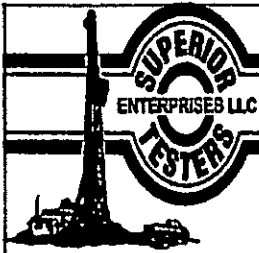
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

* Recovery from multiple tests

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mc/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17355

DST#: 1

ATTN:

Test Start: 2012.07.05 @ 06:45:00

Tool Information

Drill Pipe:	Length: 2998.00 ft	Diameter: 3.80 inches	Volume: 42.05 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 42.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	2993.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

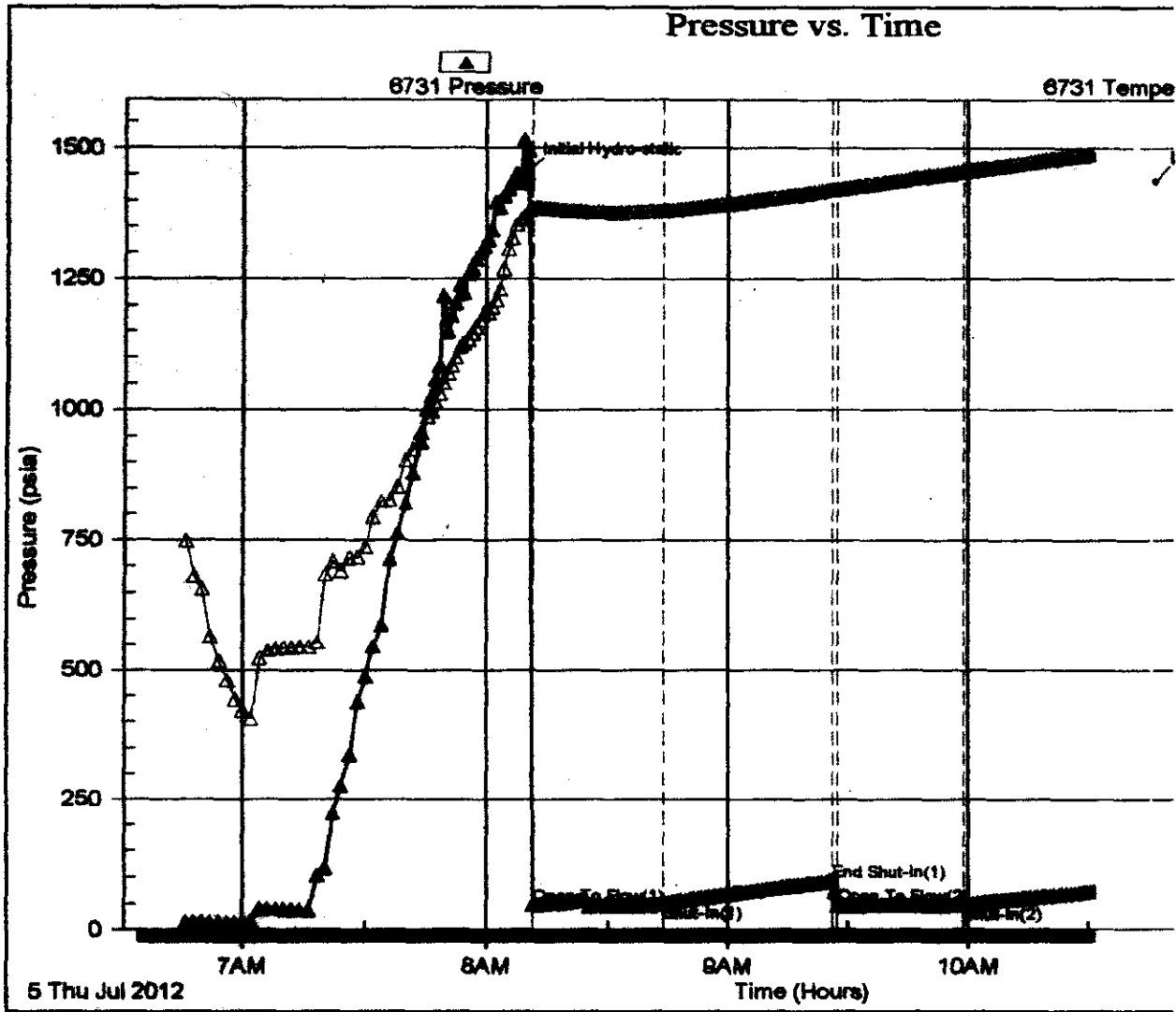
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	2978.00	
Hydraulic Tool	5.00			2983.00	
Packer	5.00			2988.00	20.00 Bottom Of Top Packer
Packer	5.00			2993.00	
Anchor	44.00			3037.00	
Recorder	1.00		Inside	3038.00	
Recorder	1.00		Outside	3039.00	
Bullnose	3.00			3042.00	49.00 Bottom Packers & Anchor

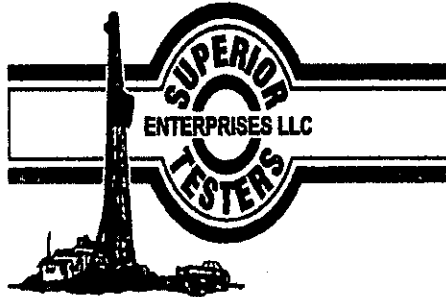
Total Tool Length: 69.00

Serial #: 6731

Carrie Exploration & Development

Matzek #4





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Hays Ks 67601

ATTN:

Matzek #4

25-19-11w Barton

Start Date: 2012.07.05 @ 18:03:00

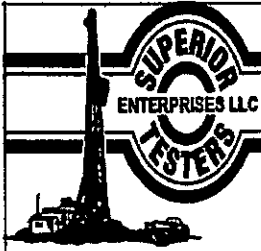
End Date: 2012.07.05 @ 23:17:00

Job Ticket #: 17356 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.05 @ 23:42:15

Carrie Exploration & Development
25-19-11w Barton
Matzek #4
DST # 2
Lansing "D E F"
2012.07.05



DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17356

DST#: 2

ATTN:

Test Start: 2012.07.05 @ 18:03:00

GENERAL INFORMATION:

Formation: Lansing" DEF"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:33:30

Time Test Ended: 23:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -40

Interval: 3040.00 ft (KB) To 3089.00 ft (KB) (TVD)

Total Depth: 3089.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1773.00 ft (KB)

1763.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 169.30 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.05

End Date: 2012.07.05

Last Calib.: 2012.07.05

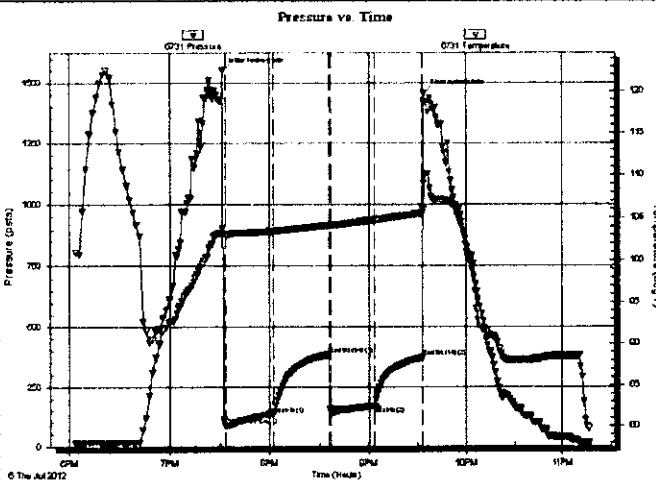
Start Time: 18:04:00

End Time: 23:17:00

Time On Btm: 2012.07.05 @ 19:31:30

Time Off Btm: 2012.07.05 @ 21:34:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minutes Gas to surface 25 minutes see gas report
 1st Shut-in 30 Minutes-Weak blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 30 Minutes Fair blow back 8 inches into bucket



PRESSURE SUMMARY

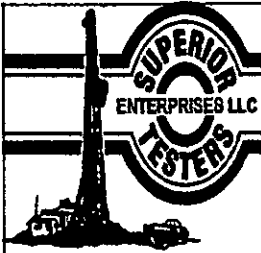
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1552.71	103.80	Initial Hydro-static
2	86.58	103.06	Open To Flow (1)
31	134.58	103.39	Shut-in(1)
64	382.98	104.12	End Shut-in(1)
66	145.59	104.09	Open To Flow (2)
92	169.30	104.71	Shut-in(2)
122	370.19	105.48	End Shut-in(2)
123	1458.30	108.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gassy oil cut muddy w ater	1.68
0.00	20%gas 40%oil 10%mud 30%w ater	0.00
120.00	Gassy oil cut muddy w ater	1.68
0.00	15%gas 45%oil 10%mud 30%w ater	0.00
60.00	muddy w ater 20%mud 80%w ater	0.84

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)
First Gas Rate	0.13	4.00	1.50
Last Gas Rate	0.13	12.00	4.49
Max. Gas Rate	0.13	12.00	4.49



DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17356

DST#: 2

ATTN:

Test Start: 2012.07.05 @ 18:03:00

GENERAL INFORMATION:

Formation: Lansing" DEF"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:33:30

Time Test Ended: 23:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -40

Interval: 3040.00 ft (KB) To 3089.00 ft (KB) (TVD)

Total Depth: 3089.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1773.00 ft (KB)

1763.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 370.96 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.05 End Date: 2012.07.05

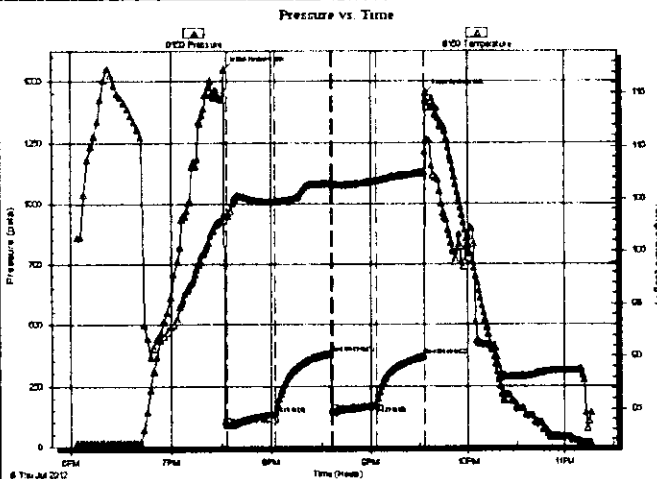
Last Calib.: 2012.07.05

Start Time: 18:04:00 End Time: 23:17:00

Time On Btm: 2012.07.05 @ 19:31:30

Time Off Btm: 2012.07.05 @ 21:34:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minutes Gas to surface 25 minutes see gas report
 1st Shut-in 30 Minutes-Weak blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 30 Minutes Fair blow back 8 inches into bucket



PRESSURE SUMMARY

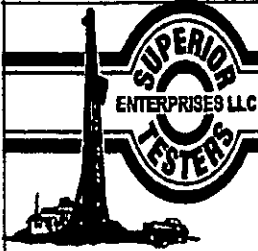
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1549.25	103.53	Initial Hydro-static
2	87.70	103.44	Open To Flow (1)
31	134.21	104.77	Shut-in(1)
64	383.14	106.50	End Shut-in(1)
66	143.75	106.44	Open To Flow (2)
92	169.50	106.76	Shut-in(2)
122	370.96	107.57	End Shut-in(2)
123	1453.50	110.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gassy oil cut muddy w ater	1.68
0.00	20%gas 40%oil 10%mud 30%w ater	0.00
120.00	Gassy oil cut muddy w ater	1.68
0.00	15%gas 45%oil 10%mud 30%w ater	0.00
60.00	muddy w ater 20%mud 80%w ater	0.84

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	1.50
Last Gas Rate	0.13	12.00	4.49
Max. Gas Rate	0.13	12.00	4.49



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17356

DST#: 2

ATTN:

Test Start: 2012.07.05 @ 18:03:00

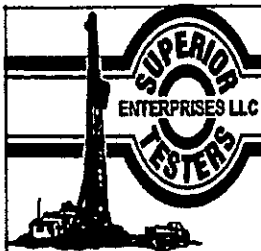
Tool Information

Drill Pipe:	Length: 3028.00 ft	Diameter: 3.80 inches	Volume: 42.47 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 42.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3040.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3025.00	
Hydraulic Tool	5.00			3030.00	
Packer	5.00			3035.00	20.00 Bottom Of Top Packer
Packer	5.00			3040.00	
Anchor	44.00			3084.00	
Recorder	1.00	6731	Inside	3085.00	
Recorder	1.00	8159	Outside	3086.00	
Bullnose	3.00			3089.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17356

DST#: 2

ATTN:

Test Start: 2012.07.05 @ 18:03:00

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.29 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	Gassy oil cut muddy water	1.683
0.00	20%gas 40%oil 10%mud 30%w ater	0.000
120.00	Gassy oil cut muddy water	1.683
0.00	15%gas 45%oil10%mud 30%w ater	0.000
60.00	muddy water 20%mud 80%w ater	0.842

Total Length: 300.00 ft Total Volume: 4.208 bbf

Num Fluid Samples: 0

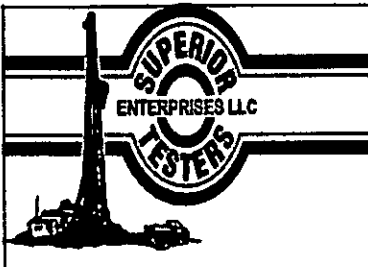
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17356

DST#: 2

ATTN:

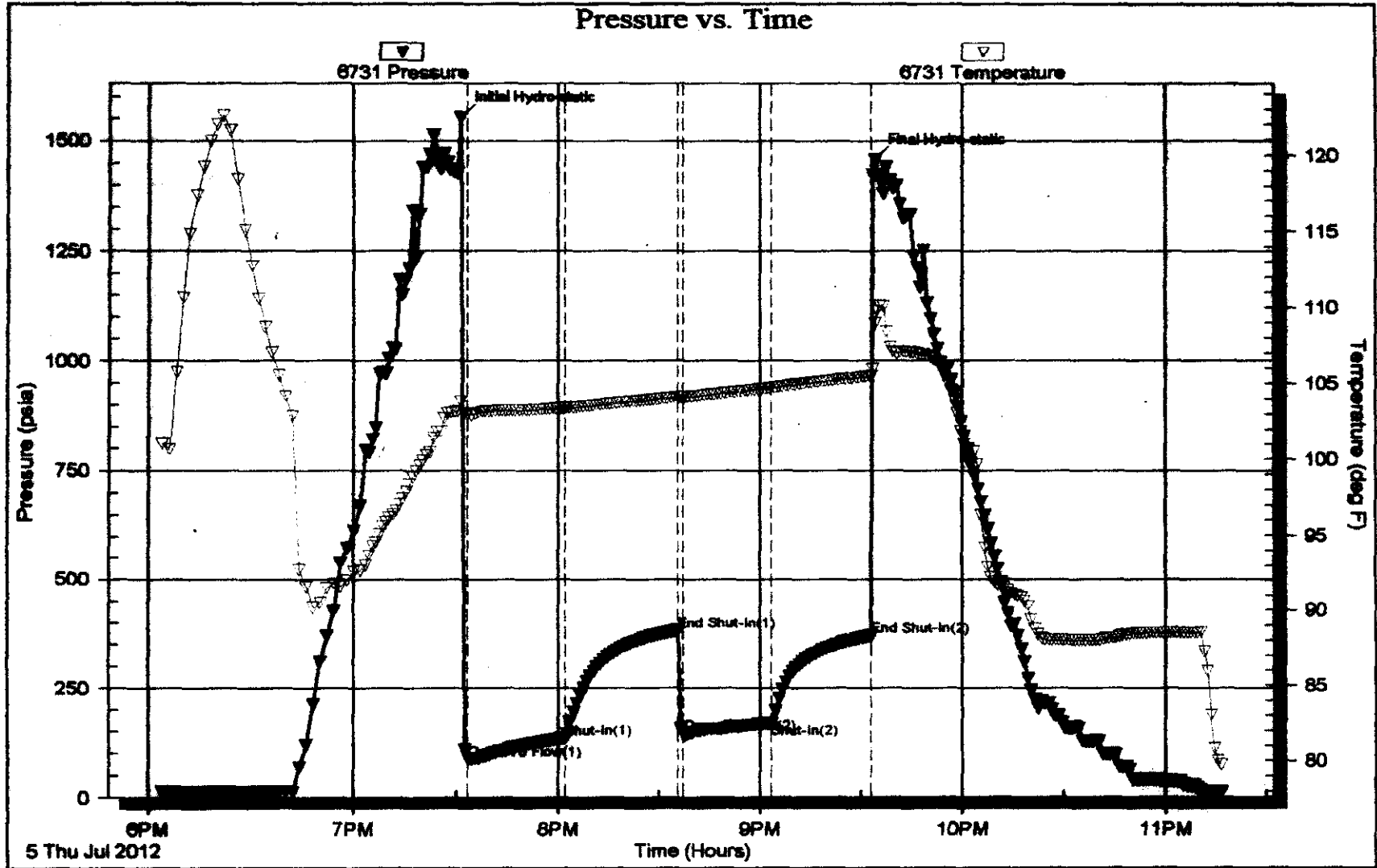
Test Start: 2012.07.05 @ 18:03:00

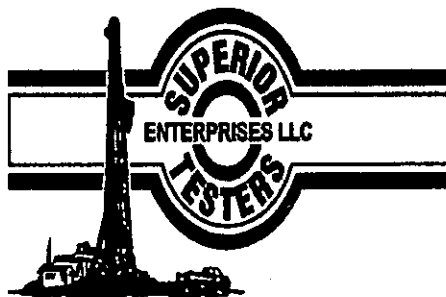
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	5	0.13	4.00	1.50
1	5	0.13	4.00	1.50
2	10	0.13	12.00	4.49
2	10	0.13	12.00	4.49





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**
210 w 22nd Hays Ks 67601

ATTN: Ron Herold

Matzek #4

25-19-11w Barton

Start Date: 2012.07.06 @ 06:10:00

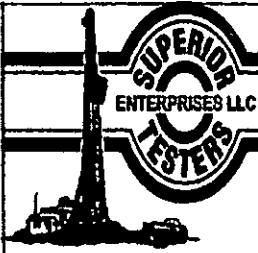
End Date: 2012.07.06 @ 11:03:00

Job Ticket #: 17357 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.06 @ 11:19:02

Carrie Exploration & Development 25-19-11w Barton Matzek #4 DST # 3 Lansing " G " 2012.07.06



DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17357

DST#: 3

ATTN: Ron Herold

Test Start: 2012.07.06 @ 06:10:00

GENERAL INFORMATION:

Formation: Lansing "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:00

Time Test Ended: 11:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-40

Interval: 3092.00 ft (KB) To 3130.00 ft (KB) (TVD)

Total Depth: 3130.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1773.00 ft (KB)

1763.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 6731

Press@RunDepth: 59.84 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.06

End Date: 2012.07.06

Last Calib.: 2012.07.06

Start Time: 06:10:00

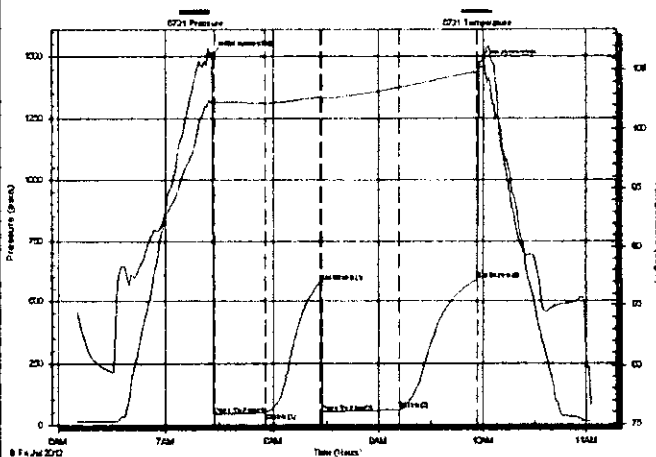
End Time: 11:03:00

Time On Btm: 2012.07.06 @ 07:26:00

Time Off Btm: 2012.07.06 @ 09:57:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 5 inches into water in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 45 Minutes-No blow back

Pressure vs Time



PRESSURE SUMMARY

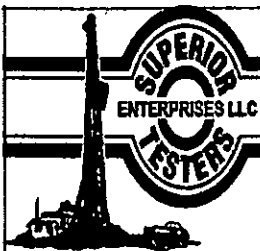
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1510.35	102.42	Initial Hydro-static
1	42.95	102.15	Open To Flow (1)
30	48.67	102.19	Shut-In(1)
61	583.06	102.67	End Shut-In(1)
62	50.14	102.54	Open To Flow (2)
106	59.84	103.48	Shut-In(2)
151	589.20	104.80	End Shut-In(2)
152	1470.27	105.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Spot oil cut mud 2%oil 98%mud	0.63

Gas Rates

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



DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17357

DST#: 3

ATTN: Ron Herold

Test Start: 2012.07.06 @ 06:10:00

GENERAL INFORMATION:

Formation: Lansing " G "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:00

Time Test Ended: 11:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-40

Interval: 3092.00 ft (KB) To 3130.00 ft (KB) (TVD)

Total Depth: 3130.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1773.00 ft (KB)

1763.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8159

Press@RunDepth: 587.28 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.06

End Date: 2012.07.06

Last Calib.: 2012.07.06

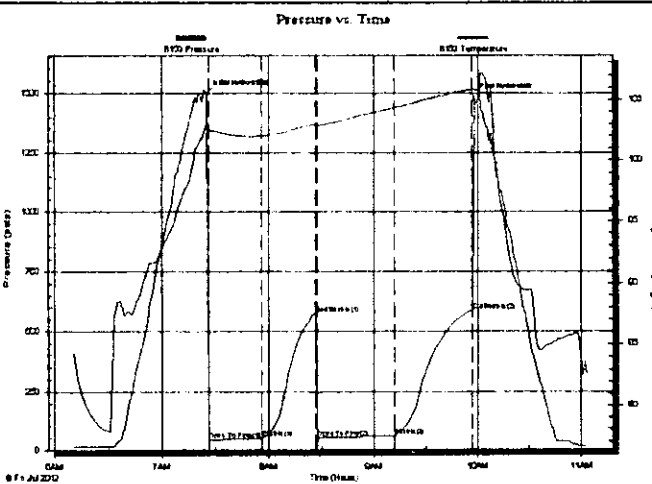
Start Time: 06:10:00

End Time: 11:03:30

Time On Btm: 2012.07.06 @ 07:25:30

Time Off Btm: 2012.07.06 @ 09:57:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 5 inches into water in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

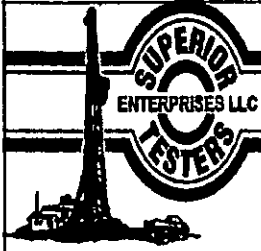
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1499.34	102.89	Initial Hydro-static
1	41.54	102.50	Open To Flow (1)
31	48.41	102.00	Shut-in(1)
61	573.06	102.99	End Shut-in(1)
62	49.81	102.85	Open To Flow (2)
106	58.77	104.32	Shut-in(2)
151	587.28	105.80	End Shut-in(2)
152	1483.48	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Spot oil cut mud 2%oil 98%mud	0.63

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17357

DST#: 3

ATTN: Ron Herold

Test Start: 2012.07.06 @ 06:10:00

Tool Information

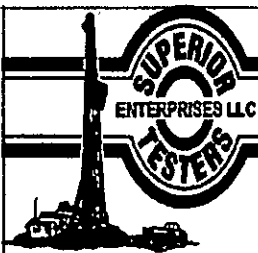
Drill Pipe:	Length: 3092.00 ft	Diameter: 3.80 inches	Volume: 43.37 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 43.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3092.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

SHut-InTool	5.00		Inside	3077.00	
Hydraulic Tool	5.00			3082.00	
Packer	5.00			3087.00	20.00 Bottom Of Top Packer
Packer	5.00			3092.00	
Anchor	44.00			3136.00	
Recorder	1.00	6731	Inside	3137.00	
Recorder	1.00	8159	Outside	3138.00	
Bulnouse	3.00			3141.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

25-19-11w Barton

210 w 22nd Hays Ks 67601

Matzek #4

Job Ticket: 17357

DST#: 3

ATTN: Ron Herold

Test Start: 2012.07.06 @ 06:10:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.30 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	Spot oil cut mud 2%oil 98%mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

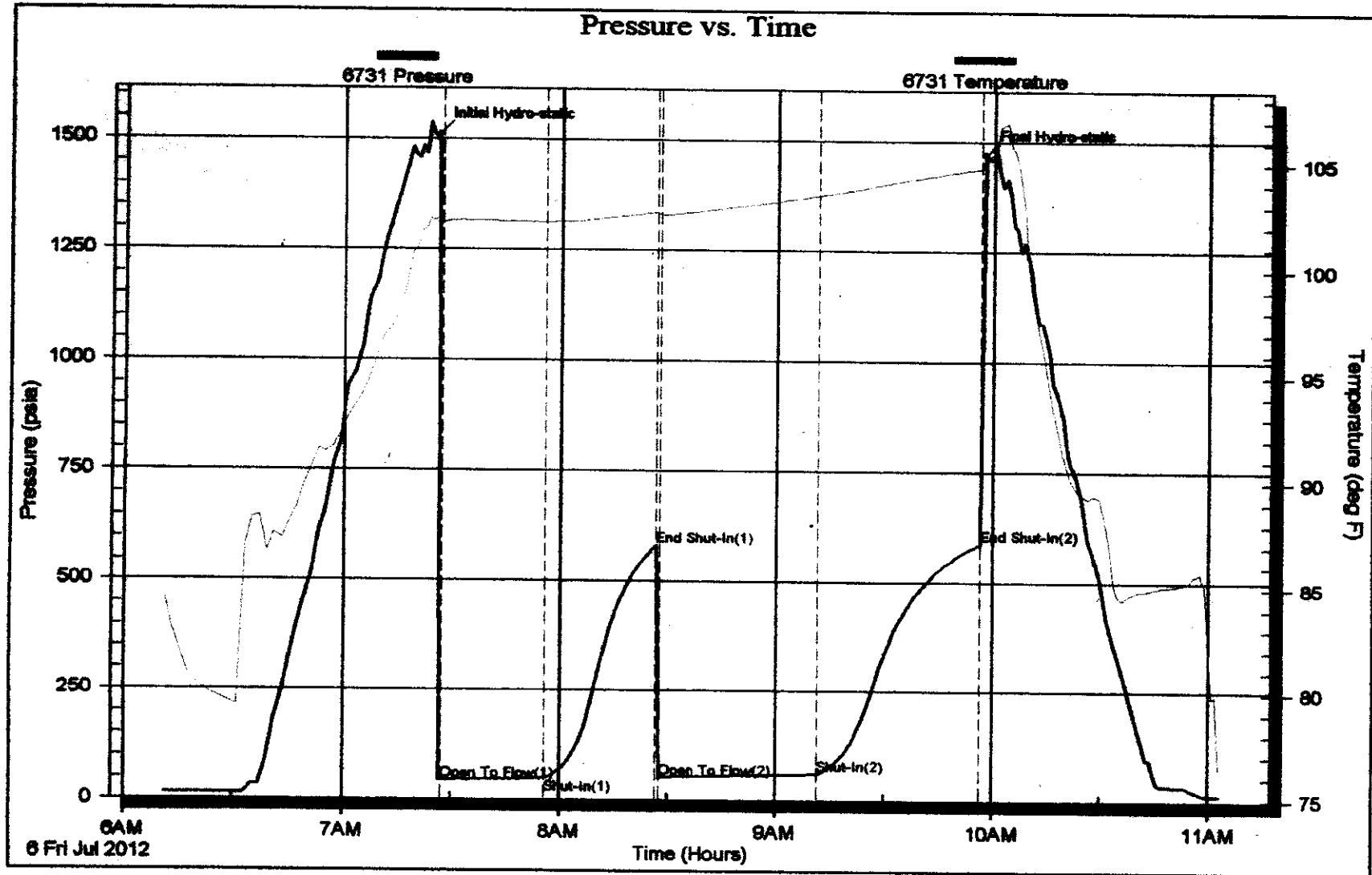
Num Gas Bombs: 0

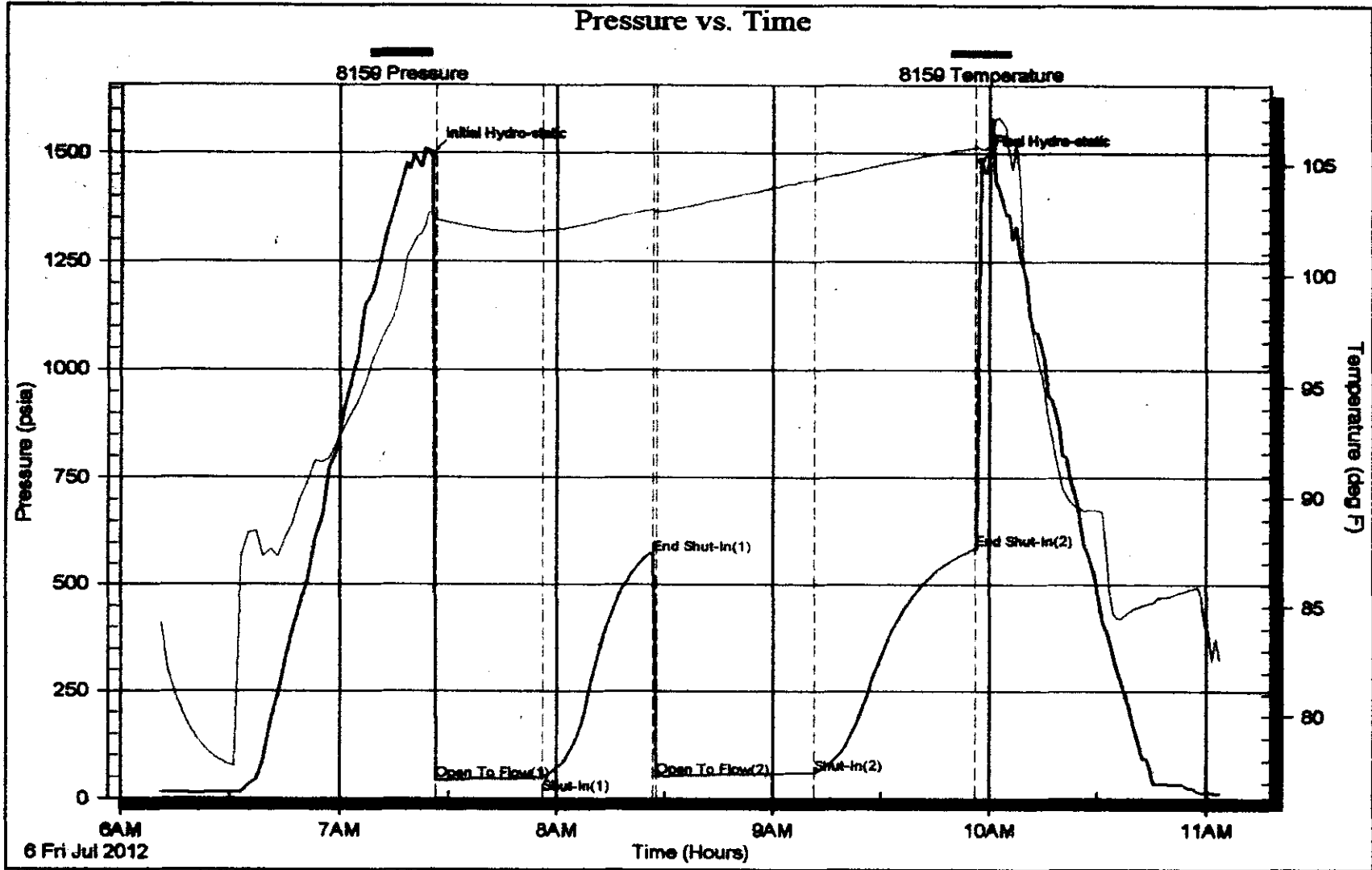
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





OPERATOR

Company: CARRIE EXPLORATION DEVELOPMENT, A GENERAL PARTNERSHIP
 Address: 210 W 22ND STREET
 HAYS, KS 67601

Contact Geologist: RON HEROLD
 Contact Phone Nbr:
 Well Name: MATZEK # 4
 Location: S2 SE NE SE Sec.25-19s-11w
 Pool: IN FIELD
 State: KANSAS

API: 15-009-25708-00-00
 Field: CHASE-SILICA
 Country: USA

Scale 1:240 Imperial

Well Name: MATZEK # 4
 Surface Location: S2 SE NE SE Sec.25-19s-11w
 Bottom Location:
 API: 15-009-25708-00-00
 License Number: 6768
 Spud Date: 7/2/2012
 Region: BARTON COUNTY
 Drilling Completed: 7/7/2012
 Surface Coordinates: 1325' FSL & 330' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1763.00ft
 K.B. Elevation: 1772.00ft
 Logged Interval: 2500.00ft
 Total Depth: 3400.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: GEL/CHEMICAL

Time: 8:30 AM
 Time: 1:44 AM
 To: 3400.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 1325' FSL
 E/W Co-ord: 330' FEL

Latitude:

LOGGED BY



Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist
 Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.
 Rig #: 2
 Rig Type: MUD ROTARY
 Spud Date: 7/2/2012
 TD Date: 7/7/2012
 Rig Release: 7/7/2012

Time: 8:30 AM
 Time: 1:44 AM
 Time: 11:00 PM

ELEVATIONS


K.B. Elevation: 1772.00ft
 K.B. to Ground: 9.00ft

Ground Elevation: 1763.00ft

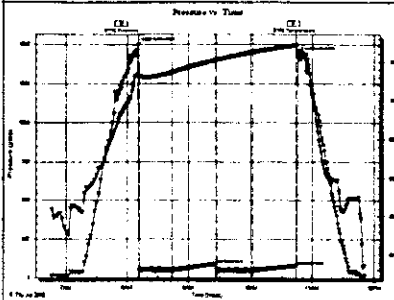
NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE IN LANSING-KANSAS AND ARBUCKLE.

DST # 1 SUMMARY PAGE

	DRILL STEM TEST REPORT	
	Carrie Exploration & Development 210 W 22nd Hays, KS 67601 ATTN:	25-19-11w Barton Matzek #4 Job Ticket: 17355 DST# 1 Test Start: 2012 07 05 @ 06:45:00
GENERAL INFORMATION:		
Formation: Lansing A-B	Deviated: No Whipstock	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 05:11:30	Time Test Ended: 11:51:00	Tester: Jared Schack
Interval: 2893.00 ft (KB) To 3042.00 ft (KB) (TVD)	Total Depth: 3042.00 ft (KB) (TVD)	Unit No: 3320-Great Bond-
Hole Diameter: 7.88 inches	Hole Condition: Fair	Reference Elevations: 1773.00 ft (KB) 1763.00 ft (CF) KB to GR/CF: 10.00 ft
Serial #: 8169		
Press@RunDepth: 48.59 psia @	Start Date: 2012.07.05	Capacity: 5000.00 psia
Start Time: 06:45:00	End Date: 2012.07.05	Last Calib: 2012.07.05
	End Time: 11:51:00	Time On Btm: 2012.07.05 @ 09:10:30
		Time Off Btm: 2012.07.05 @ 10:45:30
TEST COMMENT: 1st Opening 30 Minutes-Weak blow but 1 1/2 into water in 30 minutes		

1st Shut-in 45 Minutes- No blow
 2nd Opening 30 Minutes-Weak blow built 1 1/2 inches into water in 30 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1493.00	103.52	Initial Hydro-static
1	47.65	103.19	Open To Flow (1)
33	47.61	103.63	Shut-In (1)
76	91.63	105.22	End Shut-In (1)
77	45.25	105.25	Open To Flow (2)
111	48.59	106.22	Shut-In (2)
155	80.07	107.16	End Shut-In (2)
156	1434.03	100.31	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mscfd)

Superior Testers Enterprises LLC Ref No 17355 Printed: 2012 07 05 @ 12:03:45

DST # 2 SUMMARY PAGE

DRILL STEM TEST REPORT

Carro Exploration & Development 25-19-11w Barton

210 w 22nd Hays Ks 67601 Matzok #4

Job Ticket: 17356 DST#: 2

ATTN Test Start: 2012 07 05 @ 18:03:00

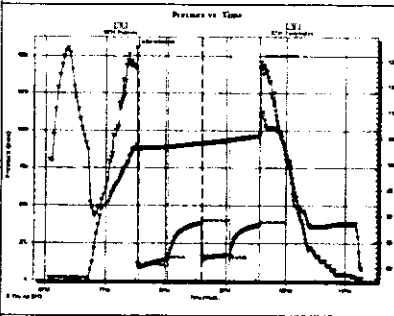
GENERAL INFORMATION:

Formation: Lens Int "DEF"
 Deviated: No Whipstock
 Time Tool Opened: 19 33 30
 Time Test Ended: 23 17 00
 Interval: 3040.00 ft (KB) To 3088.00 ft (KB) (TVD)
 Total Depth: 3039.00 ft (KB) (TVD)
 Hole Diameter: 7.63 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Echeck
 Unit No: 3320-Great Bend -40
 Reference Elevations: 1773.00 ft (KB), 1763.00 ft (CF), KB to GRCF: 10.00 ft

Serial #: 6731

Press @ Run Depth: 169.30 psia @ ft (KB)
 Start Date: 2012 07 05 End Date: 2012 07 05 Capacity: 5000.00 psia
 Start Time: 18 04 00 End Time: 23 17 00 Last Calc: 2012 07 05
 Time On Blm: 2012 07 05 @ 19 31 30
 Time Off Blm: 2012 07 05 @ 21 34 00

TEST COMMENT 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minutes Gas to surface 25 minutes see gas report
 1st Shut-in 30 Minutes-Weak blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 30 Minutes Fair blow back 8 inches into bucket



PRESSURE SUMMARY			
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1552.71	103.00	Initial Hydro-static
2	88.58	103.06	Open To Flow (1)
31	134.65	103.39	Shut-In (1)
64	302.95	104.12	End Shut-In (1)
66	145.59	104.09	Open To Flow (2)
92	163.30	104.71	Shut-In (2)
122	370.19	105.48	End Shut-In (2)
123	1458.30	108.05	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	Gassy oil cut muddy water	1.68
0.00	20%gas 40%oil 10% mud 30% water	0.00
120.00	Gassy oil cut muddy water	1.68
0.00	15%gas 45%oil 10% mud 30% water	0.00
60.00	muddy water 20% mud 80% water	0.84

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mscfd)
First Gas Rate	0.13	4.00	1.50
Last Gas Rate	0.13	12.00	4.49
Max Gas Rate	0.13	12.00	4.49

Superior Testers Enterprises LLC Ref No 17356 Printed: 2012 07 05 @ 23:42:15

DST # 3 SUMMARY PAGE



DRILL STEM TEST REPORT

Corne Exploration & Development **25-19-11w Barton**
 210 w 22nd Hays Ks 67601 **Matzek #4**
 Job Ticket: 17357 **DST# 3**
 ATTN: Ron Herold **Test Start: 2012.07.06 @ 06:10:00**

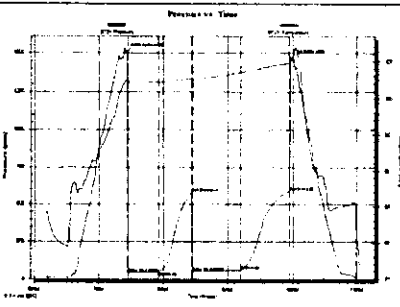
GENERAL INFORMATION:

Formation: Lansing "G"
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 07:27:00
 Time Test Ended: 11:03:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Interval: 3092.00 ft (KB) To 3130.00 ft (KB) (TVD)
 Total Depth: 3130.00 ft (KB) (TVD)
 Hole Diameter: 7.83 inches Hole Condition: Fair
 Reference Elevations: 1773.00 ft (KB)
 1763.00 ft (CF)
 KB to GR/CF: 10.00 ft

Sortal #: 6731

Press@RunDepth: 59.84 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.06 End Date: 2012.07.06 Last Calc: 2012.07.06
 Start Time: 06:10:00 End Time: 11:03:00 Time On Btm: 2012.07.06 @ 07:26:00
 Time Off Btm: 2012.07.06 @ 09:57:30

TEST COMMENT
 1st Opening 30 Minutes-Fair blow built 5 inches into water in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1510.35	102.42	Initial Hydro-static
1	42.95	102.15	Open To Flow (1)
30	48.67	102.19	Shut-In (1)
61	583.06	102.67	End Shut-In (1)
62	50.14	102.54	Open To Flow (2)
106	59.84	103.48	Shut-In (2)
151	589.20	104.80	End Shut-In (2)
152	1470.27	105.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (BBL)
45.00	Spot oil cut mud 2%oil 98% mud	0.63

Gas Rates

Core Length	Pressure (psia)	Gas Rate (MCFG)

Superior Testers Enterprises LLC

Ref. No: 17357

Printed: 2012.07.06 @ 11:10:02

ROCK TYPES

	Dolprim		Lmst fw<7		shale, gm		shale, red
	Dolsec		Lmst fw>7		Carbon Sh		Shgy

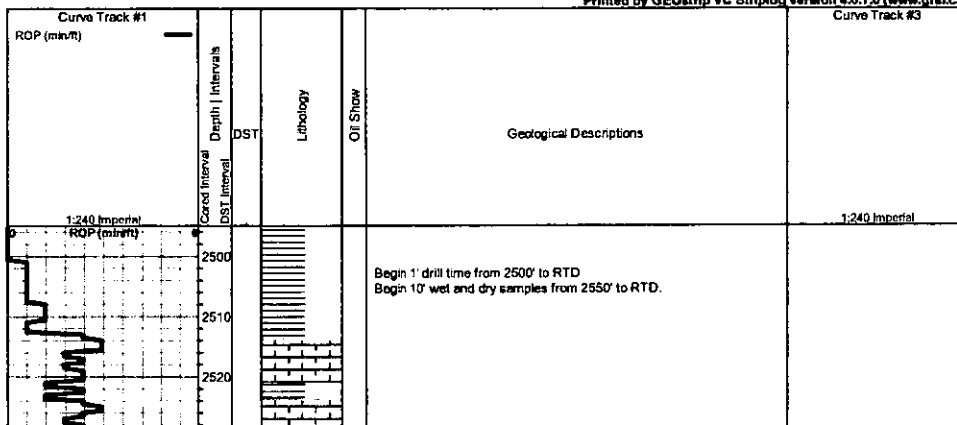
ACCESSORIES

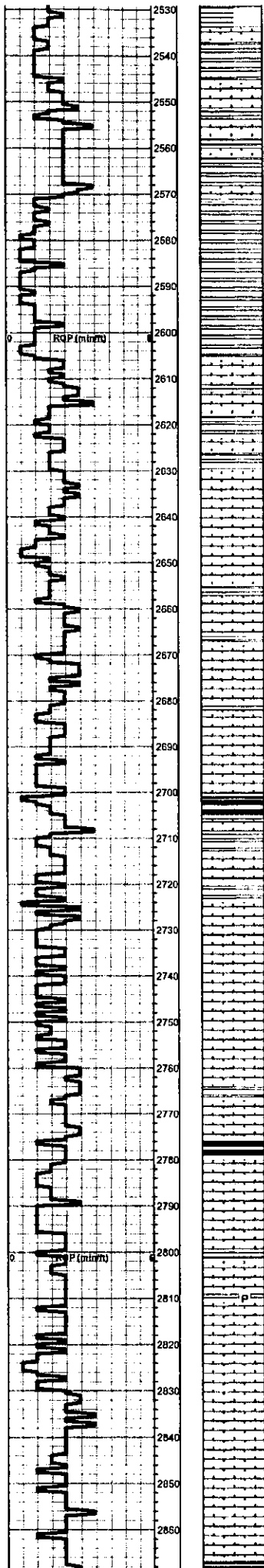
MINERAL	FOSSIL
P Pyrite	o Oolite
△ Chert White	△ Oomoldic
∇ Euhed rhombs of dol	

OTHER SYMBOLS

DST
■ DST Int
■ DST all

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.gnai.ca)



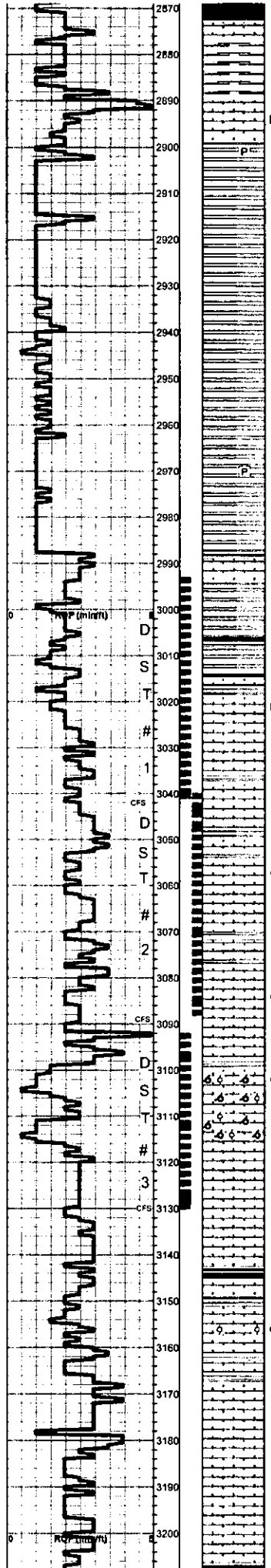


TOPEKA ELog 2606-834

- Lime, lt-med brn, frxn, fossiliferous
- Lime, crm-lt brn, frxn, fossiliferous, fusulinids
- Lime, crm-lt brn, frxn, slightly fossiliferous
- Lime, lt-med brn, frxn, slightly fossiliferous
- Shale, med gray, blocky
- Lime, lt-med brn, frxn with fusulinids
- Lime, crm-lt brn, frxn to granular in part, scattered bedded chalk
- Lime, lt-dark brn-grayish brn, frxn, slightly fossiliferous
- Lime, lt-med brn, frxn
- Lime, crm-med brn, frxn, fossiliferous in part
- Shale, black carbonaceous
- Lime, lt-med brn, frxn with calcareous shale with fossil fragments
- Lime, lt-med brn, frxn
- Lime, lt-med brn, frxn
- Lime, lt-med brn, frxn
- Lime, lt brn, frxn
- Lime, lt-med brn, frxn
- Lime, lt-med brn, frxn
- Lime, lt-med brn, frxn

FINISH DISPLACEMENT
OF MUD SYSTEM

HEEBNER SHALE ELog 2868-1096



Shale, black carbonaceous
Lime, med-dark brn, fn-vfxn

Shale, dove gray to lime green

TORONTO ELog 2890-1118
Lime, cm, mostly fnxn, scattered hvy oil stain in vuggy porosity

DOUGLAS SHALE ELog 2899-1127
Shale, lt gray-ll green, pyritic

Shale, lt-med gray, soft blocky

Shale, lt-med gray, soft blocky

Shale, dove gray to lt gray, soft

Shale, lt-med gray, soft blocky, few chips of gritty sandstone, NS

Shale, lt-med gray, soft blocky

Shale, lt gray, soft with pyrite clusters

Shale, lt gray, soft

BROWN LIME SPL 2987-1215 ELog 2990-1218
Lime, med-dark brn, fn-vfxn, fossiliferous in part

Shale, dove gray, soft mud balls in part to soft blocky

Shale, med-dark gray, soft blocky

LKC ELog 3014-1242
Lime, lt-med brn, mostly fn-vfxn, few chips with flaky gilsonite, NFO

Lime, lt-med brn, fn-vfxn, NS

Lime, cm-ll-med brn, mostly fn-vfxn

Lime, cm-ll-med brn, fn-vfxn

Lime, lt brn-gray, fn-vfxn, slightly fossiliferous

Lime, lt brn, mostly fnxn with few chips with pinpoint porosity, scattered stain with light odor

Lime, brn-grayish brn, fn-vfxn

Lime, cm, mostly fnxn with bed of fossil fragments, scattered stain with very lile odor, NFO

Lime, med brn, vfxn

Shale, dove gray forming soft mud balls

Lime, lt brn, fnxn with well cemented oolite bed, oolmoldic with scattered staining, trace oil stain with very lile odor

Lime, med brn, oolitic-oolmoldic, barren material, no staining

Lime, med brn, fnxn

Lime, lt-med grayish brn, fn-vfxn

Shale, gray-black carbonaceous

Lime, cm-ll-med brn, mostly fnxn with scattered oolitic chips with fair odor, lt scattered to saturated staining

Lime, lt-med grayish brn, fnxn, oolmoldic with lile odor and light oil staining. Microlog shows no permeability in interval.

Lime, lt-med grayish brn, fnxn

Lime, lt-med brn, fn-vfxn

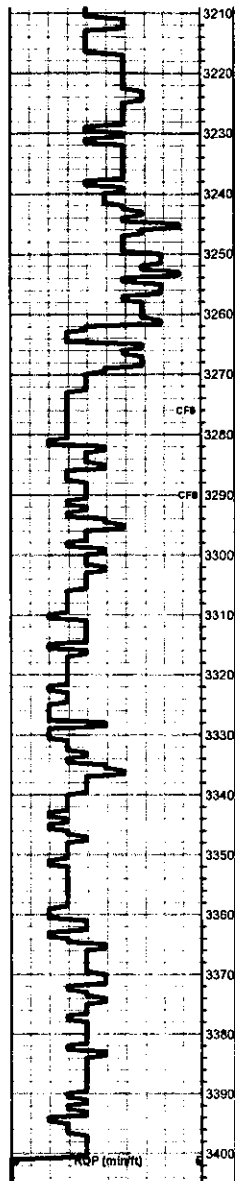
Lime, lt-med brnish gray, fnxn

Lime, med brn, fn-vfxn

DST # 1 2993-3042'
SEE HEADER FOR TEST
DETAILS

DST # 2 3040-3089'
SEE HEADER FOR TEST
DETAILS

DST # 3 3092-3130'
SEE HEADER FOR TEST
DETAILS



3210 **○** Lime, lt-med brn, fnxn, very lite odor with scattered staining, oil stained fracture surface with fine recrystallization on surface wall, lite odor. Microlog indicates little or no permeability
 3220
 3230 Lime, lt-med brn, fn-vfxn
 3240 Lime, lt gray, fn-vfxn
 3250 Lime, med brn-lt gray, fn-vfxn
BKC ELog 3249-1477
 3260 Lime, med brn-lt gray, fn-vfxn, fossil casts in part
 3270 Lime, med brn-lt gray, fn-vfxn
 3280 **CFa** Lime, lt brn, fnxn, slightly fossiliferous
 Shale, reddish brn-lt green, soft blocky
ARBUCKLE ELog 3281-1509
 3290 **●** Dolomite, crm-lt brn, fn-cxn, good odor and saturated staining
● Dolomite, crm-lt brn, fn-cxn, good euhedral crystal formation, fair odor with saturated staining, show light gassy oil on break
 3300 **○** Dolomite, lt-med brn, fnxn with scattered cxn. lt odor, scattered staining
○
 3310 Dolomite, lt brn, fn-cxn with visible intercrystalline porosity, lite odor. chert, bone white, fresh, sharp, pyritic in part, lite sulfur odor
 3320 Dolomite, lt-med brn, fn-cxn, few chips oolitic white chert
 3330 Dolomite, lt-med brn, fnxn, cherty, light green shale, waxy
 3340 Dolomite, lt-med brn, mostly fnxn, chert, bone white with opaque chert in part
 3350
 3360 Dolomite, lt brn, fnxn, very hard
 3370 Dolomite, crm-lt brn, fnxn, cherty, white and oolitic
 3380 Dolomite, crm-lt brn, fnxn with scattered pyrite clusters and inclusions
 3390 Dolomite, crm-lt brn, fn-cxn, cherty
 Dolomite, crm-lt brn, fnxn, cherty
RTD 3400-1628 LTD 3400-1628



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131785

Invoice Date: Jul 2, 2012

Page: 1

Bill To:
Carrie Exploration & Development LLC 210 West 22nd Street Hays, KS 67601

C

pd
ck# 3207
7-18-12



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Carrie	Matzey #4	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jul 2, 2012	8/1/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
188.71	SER	Handling	2.10	396.29
146.37	SER	Ton Mileage	2.35	343.96
1.00	SER	Surface	1,125.00	1,125.00
17.00	SER	Pump Truck Mileage	7.00	119.00
17.00	SER	Light Vehicle Mileage	4.00	68.00
1.00	CEMENTER	Wayne Davis		
1.00	EQUIP OPER	Kerry Rose		
1.00	EQUIP OPER	Vince Pack		
1.00	OPER ASSIST	Kevin Weighous		

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

\$ 1327.23

ONLY IF PAID ON OR BEFORE

Jul 27, 2012

Subtotal	5,308.95
Sales Tax	237.74
Total Invoice Amount	5,546.69
Payment/Credit Applied	
TOTAL	5,546.69

pd 4219.86

ALLIED OIL & GAS SERVICES, LLC 053704

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend

DATE <u>7-2-12</u>	SEC. <u>25</u>	TWP. <u>19</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30 PM</u>	JOB FINISH <u>1:30 PM</u>
LEASE <u>Matzek</u>	WELL# <u>4</u>	LOCATION <u>Ellinwood East To Coling</u>			COUNTY <u>Barton</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)			<u>1/4 North west 1-10</u>				

CONTRACTOR Southwind Rig
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 I.D. 261
 CASING SIZE 8 3/4 20" DEPTH 265
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15
 PERFS. _____
 DISPLACEMENT 15.50 BBLs

OWNER Cavie Exploration
 CEMENT
 AMOUNT ORDERED 200 SX class A + 3% GCL + 2% GCL used 175 SX

EQUIPMENT
 PUMP TRUCK CEMENTER wayne D
 # 898 HELPER Kevin R vince P
 BULK TRUCK
 # 482 DRIVER Kevin W
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>175</u>	@ <u>16.25</u>	<u>2,843.75</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>188.00</u>	@ <u>2.10</u>	<u>396.80</u>
MILEAGE	<u>8.61 X 17 X</u>	@ <u>2.35</u>	<u>343.97</u>
TOTAL			<u>3,996.95</u>

REMARKS:
Pipe on Bottom Break circulation
with Rig mud
Run 5 BBLs Ahead
mix 200 SX class A + 3% GCL + 2% GCL
Displace 15.50 BBLs fresh water
Shut in
Cement did circulate

SERVICE

DEPTH OF JOB	<u>265</u>		
PUMP TRUCK CHARGE		<u>1125.00</u>	
EXTRA FOOTAGE		@	
MILEAGE	<u>Hvm 17</u>	@ <u>7.00</u>	<u>119.00</u>
MANIFOLD		@	
	<u>Lvm 17</u>	@ <u>4.00</u>	<u>68.00</u>
		@	

CHARGE TO: Cavie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1312.00

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	
_____	@	
TOTAL _____		

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 5,308.95
 DISCOUNT 25% 1,327.22 IF PAID IN 30 DAYS
3,981.73

PRINTED NAME William Sanders
 SIGNATURE William Sanders



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



Invoice

DATE	INVOICE #
7/7/2012	22689

BILL TO
Carrie Exploration & Development 210 West 22nd Street Hays, KS 67601

Pd
OK #3200
7-11-12

- Acidizing
- Cement
- Tool Rental

Cement 5 1/2

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#4	Matzek	Barton	SouthWind Drilling	Oil	Development	5-1/2" LongString	Waync

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
578D-1.	Pump Charge - Long String - 3391 Feet	1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)	5	Gallon(s)	25.00	125.00T
280	Flocheck 21	330	Gallon(s)	2.50	825.00T
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 - Top Joint #46 - 1572 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
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	175	Sacks	13.50	2,362.50T
276	Flocele	50	Lb(s)	2.00	100.00T
283	Salt	900	Lb(s)	0.20	180.00T
284	Calseal	8	Sack(s)	35.00	280.00T
286	Halad-1 (Halad 9)	100	Lb(s)	7.50	750.00T
290	D-Air	2	Gallon(s)	35.00	70.00T
581D	Service Charge Cement	175	Sacks	2.00	350.00
583D	Drayage	640.5	Ton Miles	1.00	640.50
	Subtotal				11,863.00
	Sales Tax Barton County			7.30%	653.53

We Appreciate Your Business!	Total	\$12,516.53
-------------------------------------	--------------	--------------------

JG

SWIFT Services, Inc.

DATE 7-7-12 PAGE NO.

WELL NO. #4

LEASE MATZEK

JOB TYPE 5 1/2" LONGSTRENGTH

TICKET NO. 22689

WELL NO. #4

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							ON LOCATION
	1430							START 5 1/2" CASING IN WELL
								TD-3400 SET-3391
								TP-3391 5 1/2" 14
								ST-17'
								CONDUITERS - 4, 6, 7, 8, 9, 11, 15, 45
								CNT BSKTS - 7, 46
								PORT COUNTE = 1572 TOP JT = 46
	1610							DROP BALL - CIRCULATE ROTATE
	1640	7	9				400	PUMP KCL SPACER "
	1641	7	8				400	PUMP FLOCHER-21 330 GAL "
	1643	7	9				400	PUMP KCL SPACER "
	1648		7-4					PLUG RH (30 SKS) MH (15 SKS)
	1653	6 1/4	32				300	MIX CEMENT 130 SKS FA-2 c 15.4 PPG "
	1658							WASH OUT PUMP LINES
	1658							RELEASE LATCH DOWN PLUG
	1700	7 1/2	0					DISPLACE PLUG (1st 36 BBS KCL-H2O) "
	1712	6	82.3				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	1715						OK	RELEASE PSE - HEAD
								WASH TRUCK
	1800							JOB COMPLETE

THANK YOU
WAYNE, JEFF, DAVID



CHARGE TO: **CARRIE EXPLORATION**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET No 22689

PAGE 1 OF 2

SERVICE LOCATIONS 1. NESS CITY, KS	WELL/PROJECT NO #4	LEASE MATZEK	COUNTY/PARISH BARTON	STATE Ks	CITY	DATE 7-7-12	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR SOUTHWEST DRIG.	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LONGSTRENG	WELL PERMIT NO.	WELL LOCATION EUNWOOD, KS - E/COW, 1/2W		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	70	MI			6.00	420.00
578		1			PUMP CHARGE	1	JOB	3391	FF	1500.00	1500.00
221		1			LIQUID KCL		SGAL			25.00	125.00
280		1			FLOCHECK-21	330	GAL			2.50	825.00
402		1			CENTRALIZERS	8	EA	5 1/2"		70.00	560.00
403		1			CEMENT BASKETS	2	EA			250.00	500.00
404		1			PORT COLLAR TOPST # 46	1	EA	1572	FF	2400.00	2400.00
406		1			LATCH DOWN PLUG - BAFFLE	1	EA			250.00	250.00
407		1			INSERT FLOAT SHOE w/AUTO FILL	1	EA			350.00	350.00
419		1			ROTATING HEAD RENTAL	1	JOB			200.00	200.00

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
 DATE SIGNED **7-7-12** TIME SIGNED **1400** **8:44** 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 #1	7130.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	4733.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	11,863.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	653.53
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	12,516.53
<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

OR **DAKE WILSON**

APPROVAL

Thank You!

ELAND

Acid & Cement

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

Page: 1

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
 C39818-IN

BILL TO:
 CARRIE EXPLORATION & DEV.
 210 WEST 22ND STREET
 HAYS, KS 67601

C LEASE: MATZEK 4

OK #3227
 7-2312

cement thru port collar

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
07/17/2012	C39818		07/12/2012		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
15.00	MI	CEMENT MILEAGE PUMP TRUCK		0.00	4.00	60.00
15.00	MI	CEMENT MILEAGE PU TRUCK		0.00	2.00	30.00
1.00	EA	CEMENT PUMP CHARGE		0.00	950.00	950.00
500.00	SAX	60-40 POZ MIX 2% GEL		0.00	9.25	4,625.00
18.00	SAX	2% ADDITIONAL GEL		0.00	22.00	396.00
518.00	EA	BULK CHARGE		0.00	1.25	647.50
343.50	MI	BULK TRUCK - TON MILES		0.00	1.10	377.85
		<i>port collar 1572</i>				
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		Net Invoice: 7,086.35 BATCO Sales Tax: 69.35 Invoice Total: 7,155.70		
RECEIVED BY _____		NET 30 DAYS				

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

Copeland Acid & Cement is a subsidiary of Grosseil Oil Field Service

Grosseil Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code