



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

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: _____



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)* _____

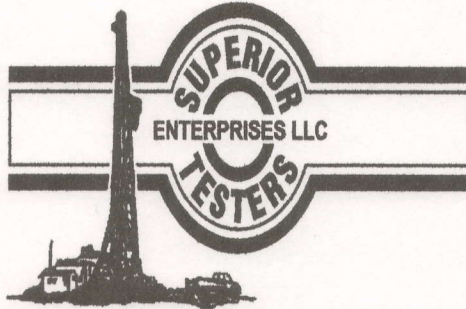
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, a General Partnership
Well Name	Matzek 4
Doc ID	1086878

Tops

Name	Top	Datum
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

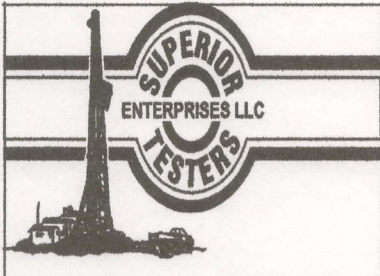
25-19-11w Barton

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)

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)**

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 GRVCF: 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

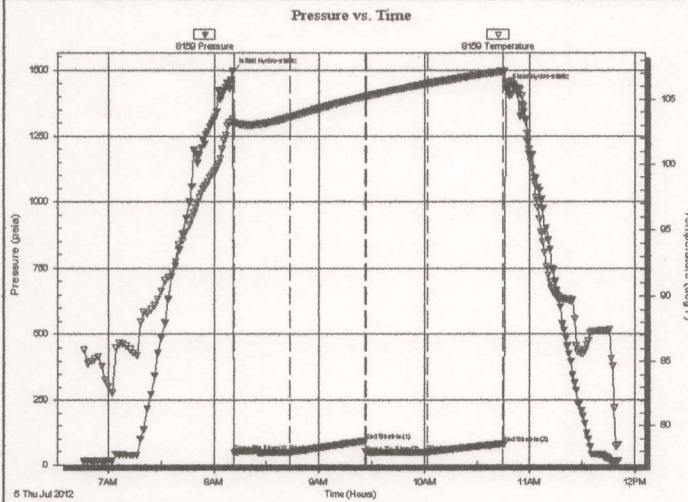
Start Time: 06:45:00

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

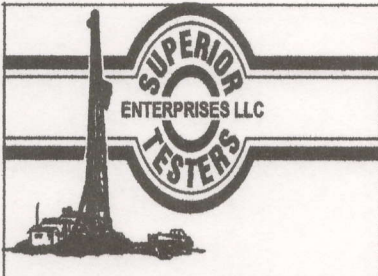
Recovery

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)**

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 #: 6731

Press@RunDepth: 82.21 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.05 End Date: 2012.07.05

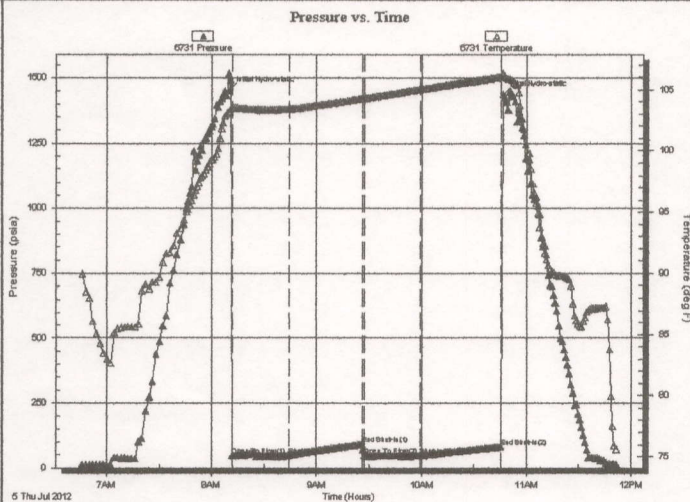
Last Calib.: 2012.07.05

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

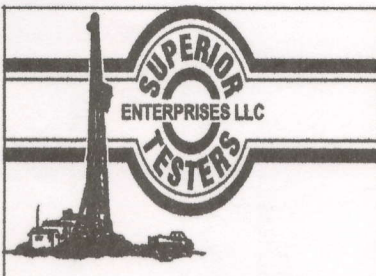
Recovery

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

Gas Rates

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

* Recovery from multiple tests



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
 Drill Pipe Above KB: 25.00 ft Total Volume: 42.05 bbl Tool Chased 0.00 ft
 Depth to Top Packer: 2993.00 ft String Weight: Initial 31000.00 lb
 Depth to Bottom Packer: ft Final 31000.00 lb
 Interval between Packers: 49.00 ft
 Tool Length: 69.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

Length (ft)	Description	Volume (bbl)
10.00	...	0.140

Tool Description

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

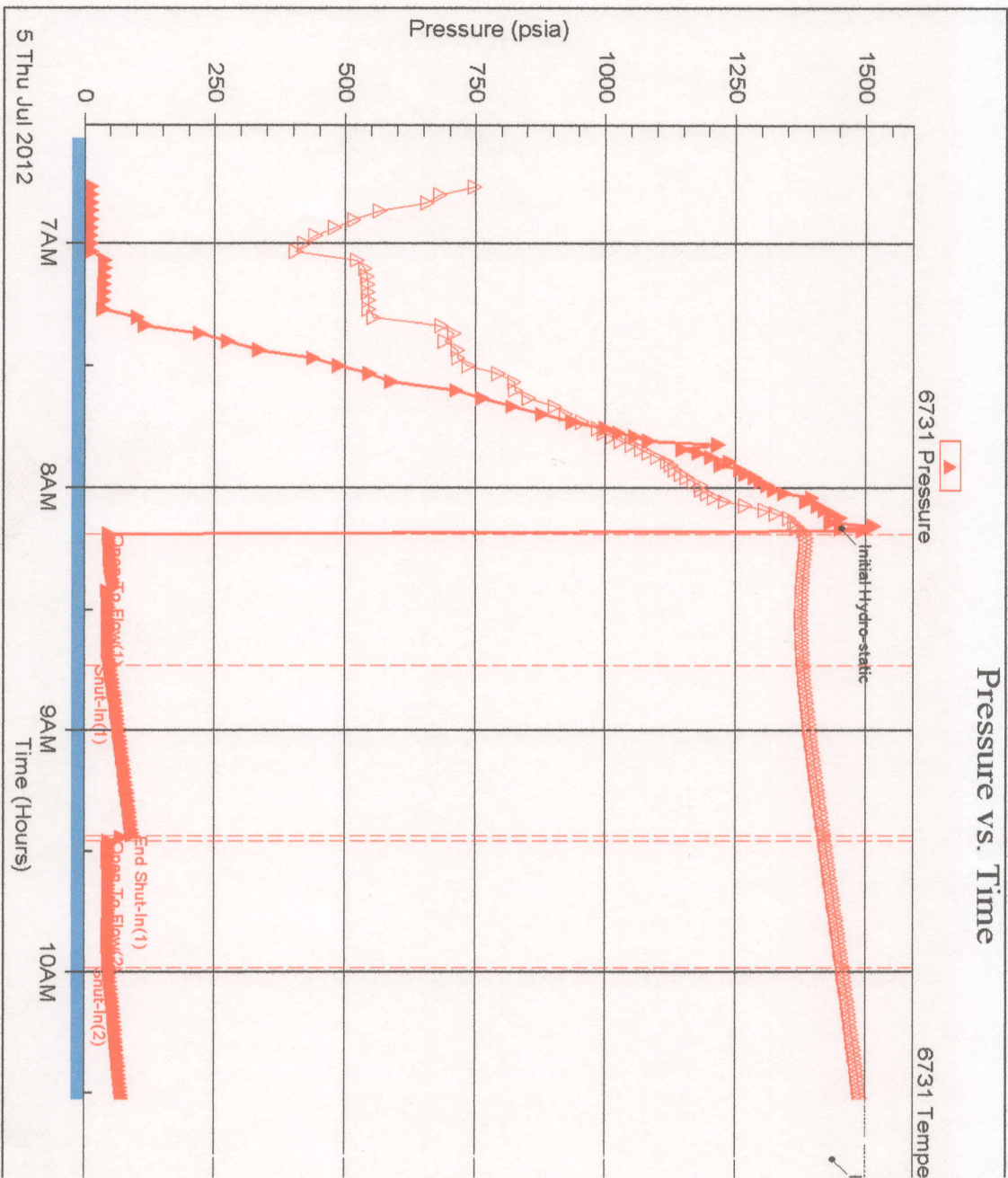
Total Tool Length: 69.00

Serial #: 6731

Carrie Exploration & Development

Matzek #4

Pressure vs. Time





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

ATTN:

Job Ticket: 17356

DST#: 2

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)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3089.00 ft (KB) (TVD)

1763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

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

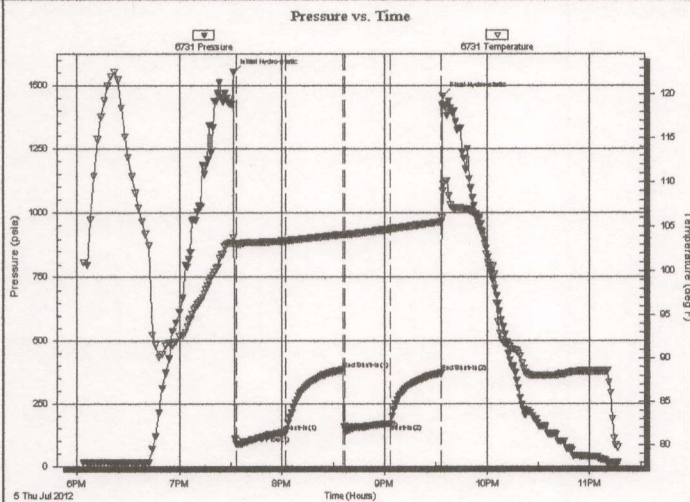
Last Calib.: 2012.07.05

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%oil10%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

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)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3089.00 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: 370.96 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.05 End Date: 2012.07.05

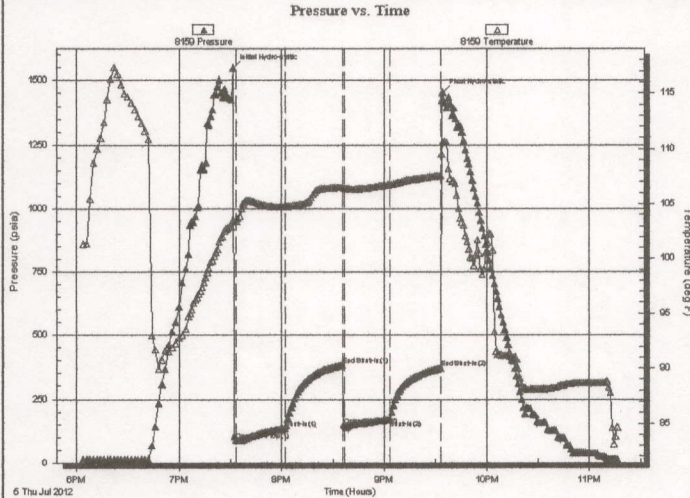
Last Calib.: 2012.07.05

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

Time On Btm: 2012.07.05 @ 19:31:30

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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

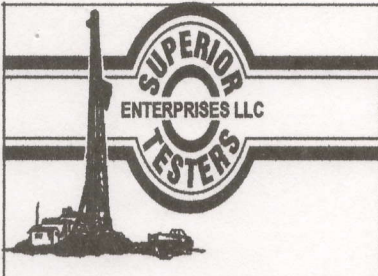
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1549.25	103.53	Initial Hydro-static
2	87.70	103.44	Open To Flow (1)
31	134.21	104.77	Shut-In(1)
64	383.14	106.50	End Shut-In(1)
66	143.75	106.44	Open To Flow (2)
92	169.50	106.76	Shut-In(2)
122	370.96	107.57	End Shut-In(2)
123	1453.50	110.58	Final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

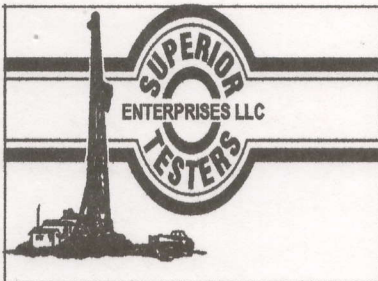
Tool Information

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:

bbbl

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 bbl
120.00	Gassy oil cut muddy w ater	1.683
0.00	20%gas 40%oil 10%mud 30%w ater	0.000
120.00	Gassy oil cut muddy w ater	1.683
0.00	15%gas 45%oil10%mud 30%w ater	0.000
60.00	muddy w ater 20%mud 80%w ater	0.842

Total Length: 300.00 ft

Total Volume: 4.208 bbl

Num Fluid Samples: 0

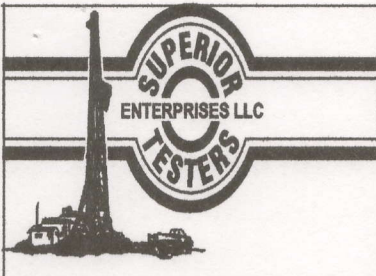
Num Gas Bombs: 0

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

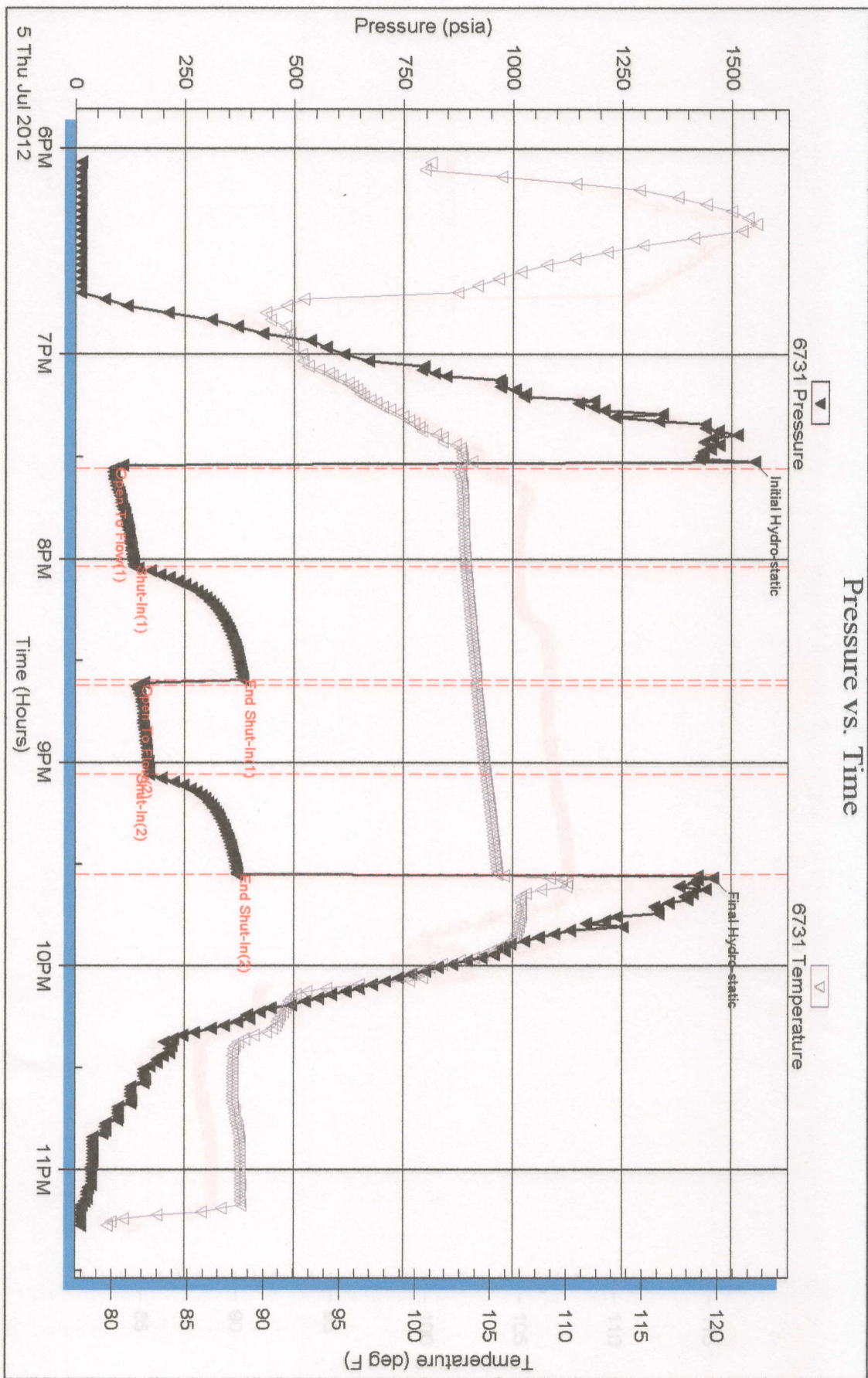
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	5	0.13	4.00	1.50
1	5	0.13	4.00	1.50
2	10	0.13	12.00	4.49
2	10	0.13	12.00	4.49

Serial #: 6731

Carrie Exploration & Development

Meizek #4

DST Test Number: 2





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

ATTN: Ron Herold

Job Ticket: 17357

DST#: 3

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)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1763.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 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

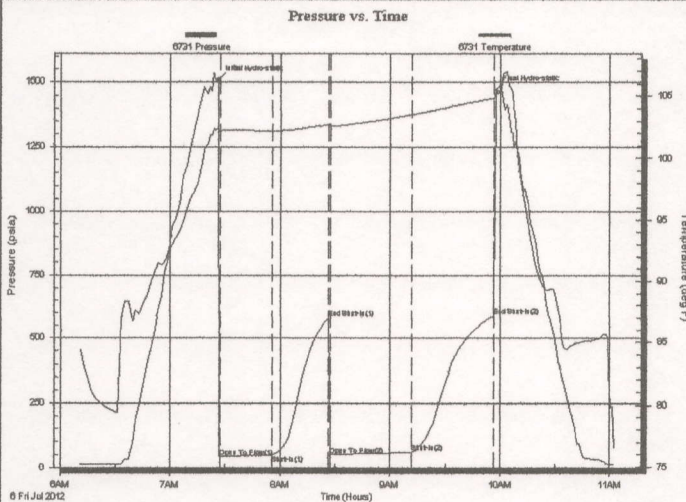
Start Time: 06:10:00

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 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

ATTN: Ron Herold

Job Ticket: 17357

DST#: 3

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)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3130.00 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: 587.28 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.06

End Date: 2012.07.06

Last Calib.: 2012.07.06

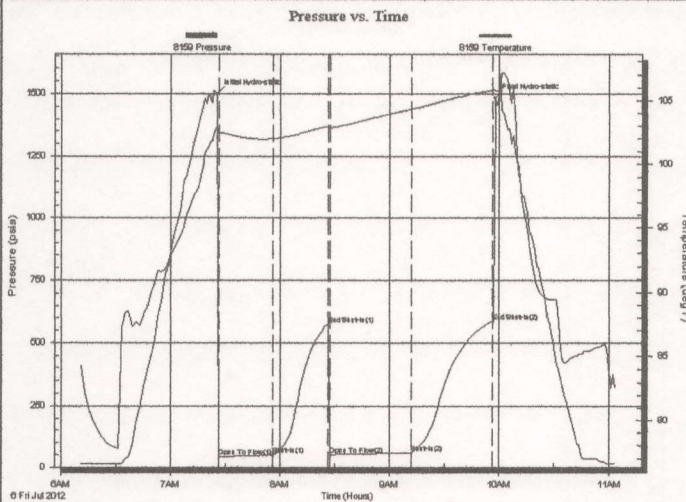
Start Time: 06:10:00

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

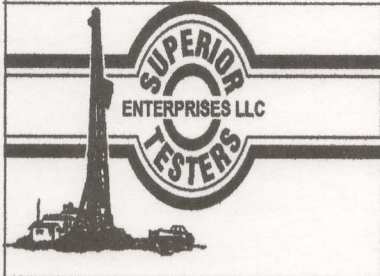
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1499.34	102.89	Initial Hydro-static
1	41.54	102.50	Open To Flow (1)
31	48.41	102.00	Shut-In(1)
61	573.06	102.99	End Shut-In(1)
62	49.81	102.85	Open To Flow (2)
106	58.77	104.32	Shut-In(2)
151	587.28	105.80	End Shut-In(2)
152	1483.48	105.72	Final Hydro-static

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

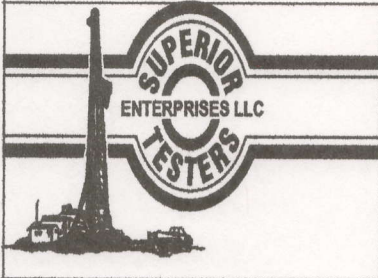
Tool Information

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	
Bullnose	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: bbl		
Water Loss: 8.30 in ³	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 bbl
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:

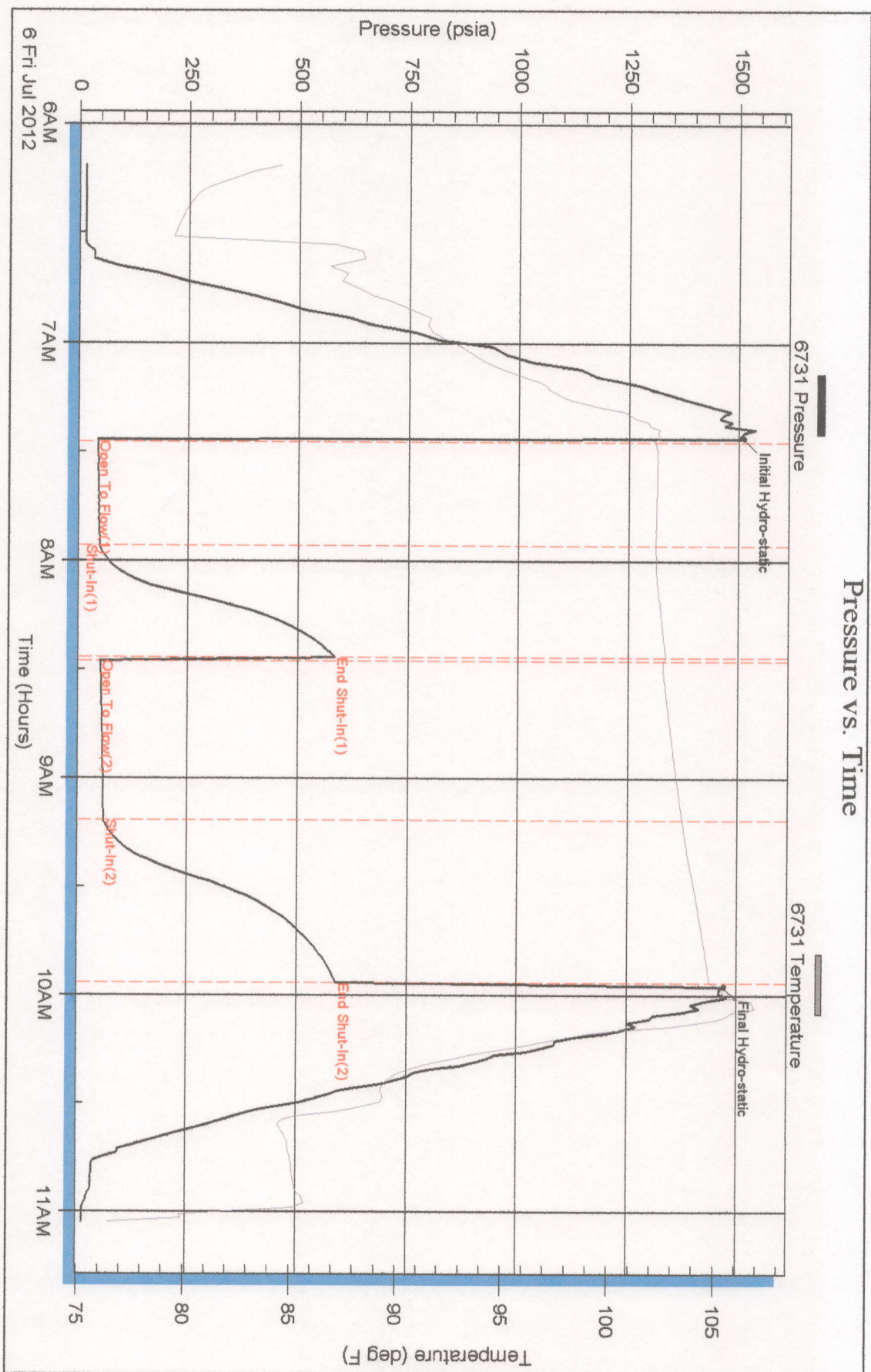
Serial #: 6731

Carrie Exploration & Development

Matzek #4

DST Test Number: 3

Pressure vs. Time



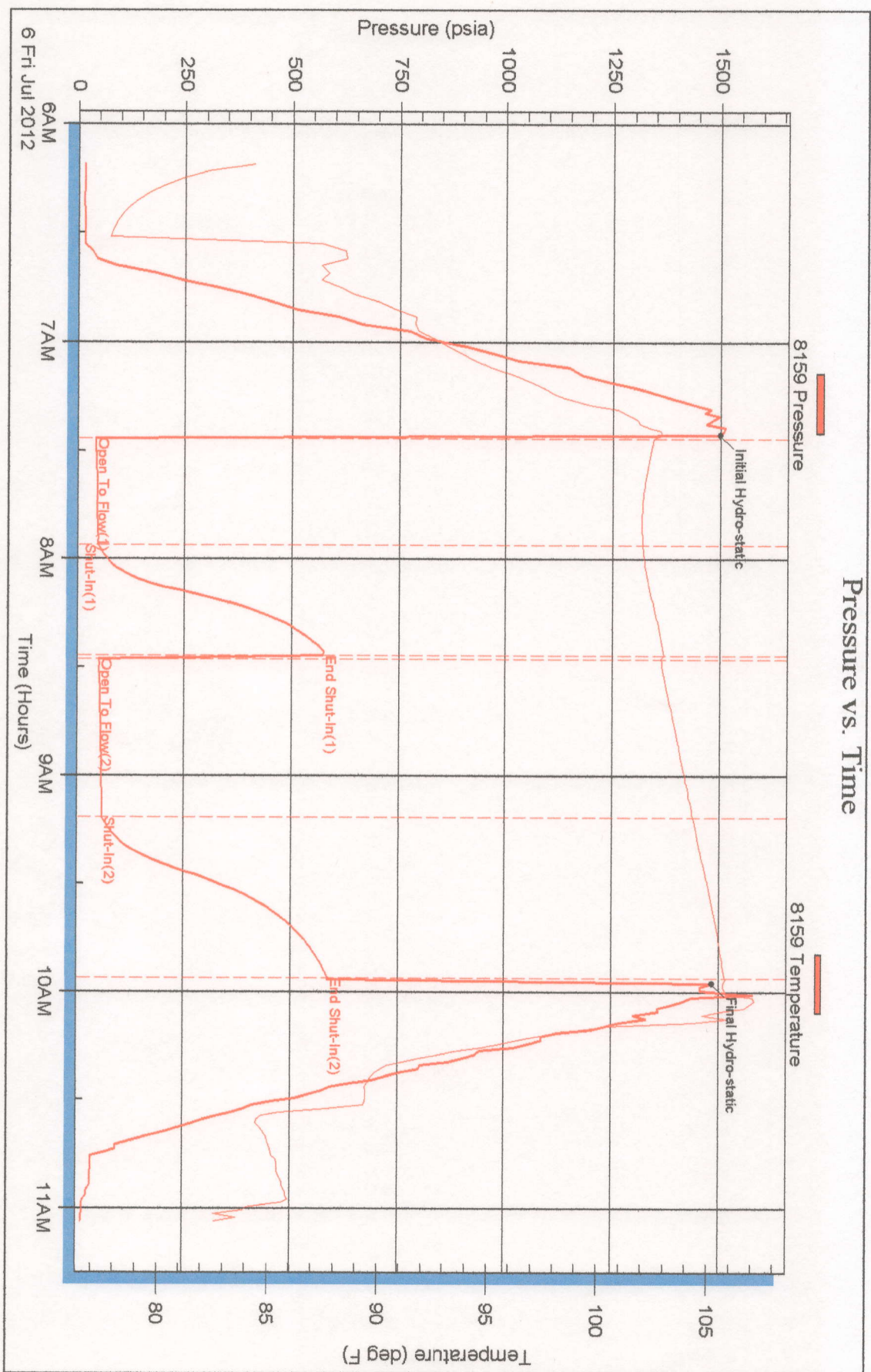
Serial #: 8159

Carrie Exploration & Development

Matzek #4

DST Test Number: 3

Pressure vs. Time



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

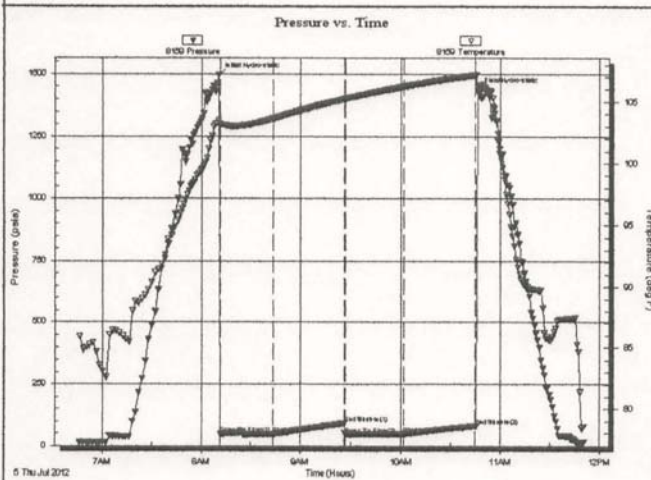
NOTES

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		25-19-11w Barton	
210 w 22nd Hays Ks 67601		Matzek #4	
ATTN:		Job Ticket: 17355	DST#: 1
		Test Start: 2012.07.05 @ 06:45:00	
GENERAL INFORMATION:			
Formation:	Lansing A-B	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock: ft (KB)	Tester:	Jared Scheck
Time Tool Opened:	08:11:30	Unit No:	3320-Great Bend-
Time Test Ended:	11:51:00	Reference Elevations:	1773.00 ft (KB) 1763.00 ft (CF)
Interval:	2993.00 ft (KB) To 3042.00 ft (KB) (TVD)	KB to GR/CF:	10.00 ft
Total Depth:	3042.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches	Hole Condition:	Fair
Serial #: 8159			
Press@RunDepth:	48.59 psia @ ft (KB)	Capacity:	5000.00 psia
Start Date:	2012.07.05	Last Calib.:	2012.07.05
Start Time:	06:45:00	End Date:	2012.07.05
		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



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

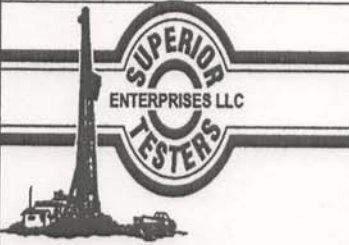
Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

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

Superior Testers Enterprises LLC Ref. No: 17355 Printed: 2012.07.05 @ 12:03:45

2

DST # 2 SUMMARY PAGE



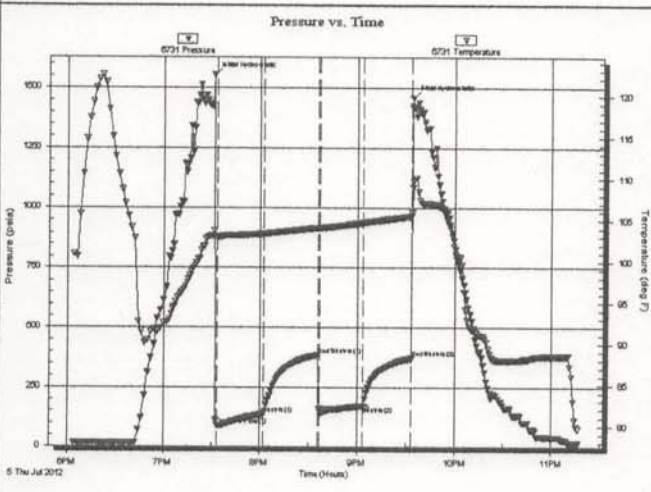
DRILL STEM TEST REPORT

Carrie Exploration & Development **25-19-11w Barton**
 210 w 22nd Hays Ks 67601 **Matzek #4**
 ATTN: Job Ticket: 17356 DST#: 2
 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)
 Reference Elevations: 1773.00 ft (KB)
 1763.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 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



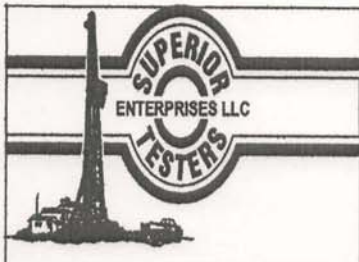
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1552.71	103.80	Initial Hydro-static
2	86.58	103.06	Open To Flow (1)
31	134.58	103.39	Shut-In(1)
64	382.98	104.12	End Shut-In(1)
66	145.59	104.09	Open To Flow (2)
92	169.30	104.71	Shut-In(2)
122	370.19	105.48	End Shut-In(2)
123	1458.30	108.96	Final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

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

	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

Superior Testers Enterprises LLC Ref. No: 17356 Printed: 2012.07.05 @ 23:42:15

DST # 3 SUMMARY PAGE



DRILL STEM TEST REPORT

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

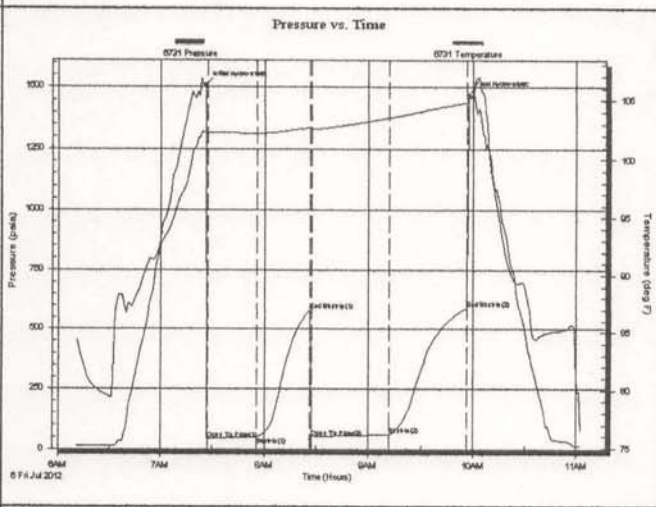
GENERAL INFORMATION:

Formation: **Lansing "G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:27:00 Tester: Jared Scheck
 Time Test Ended: 11:03:00 Unit No: 3320-Great Bend-40
 Interval: 3092.00 ft (KB) To 3130.00 ft (KB) (TVD) Reference Elevations: 1773.00 ft (KB)
 Total Depth: 3130.00 ft (KB) (TVD) 1763.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 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 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)

Superior Testers Enterprises LLC Ref. No: 17357 Printed: 2012.07.06 @ 11:19:02

ROCK TYPES

Dolprim	Lmst fw<7	shale, grn	shale, red
Dolsec	Lmst fw7>	Carbon Sh	Shgy

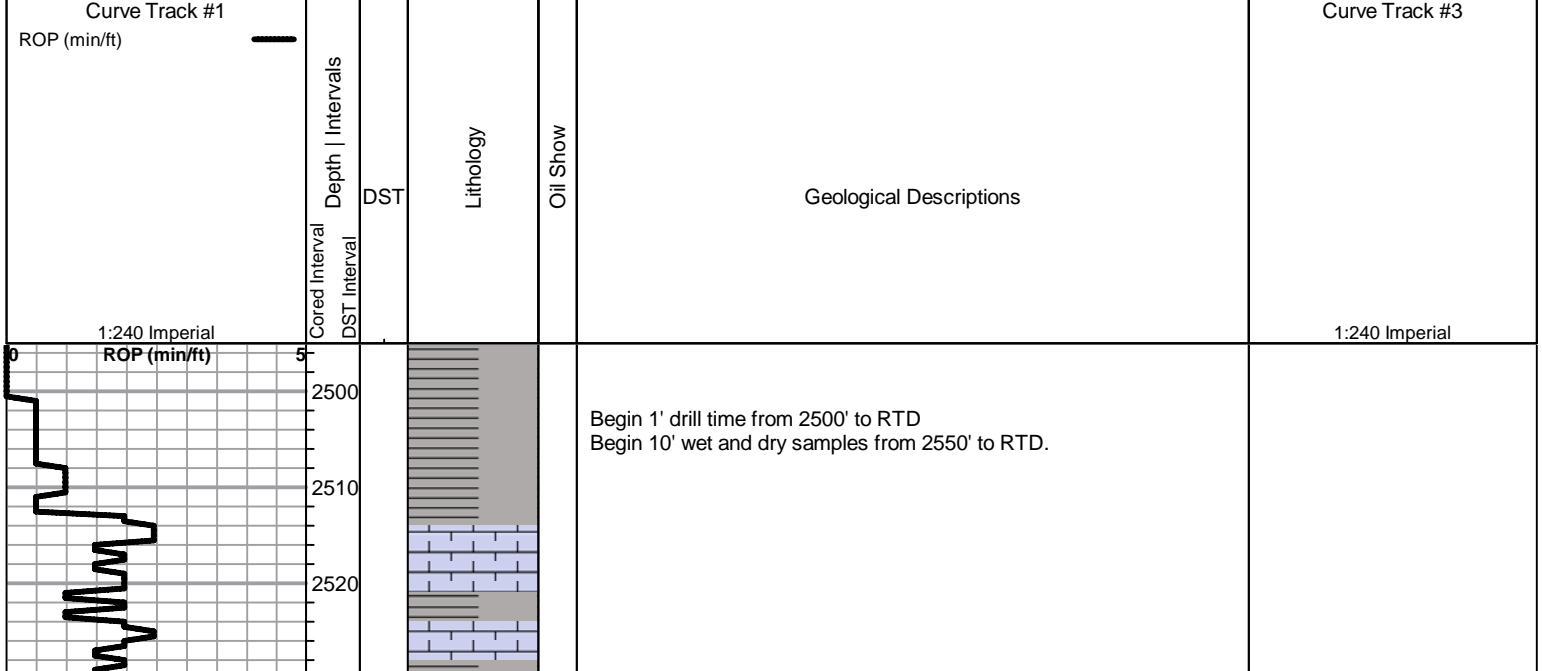
ACCESSORIES

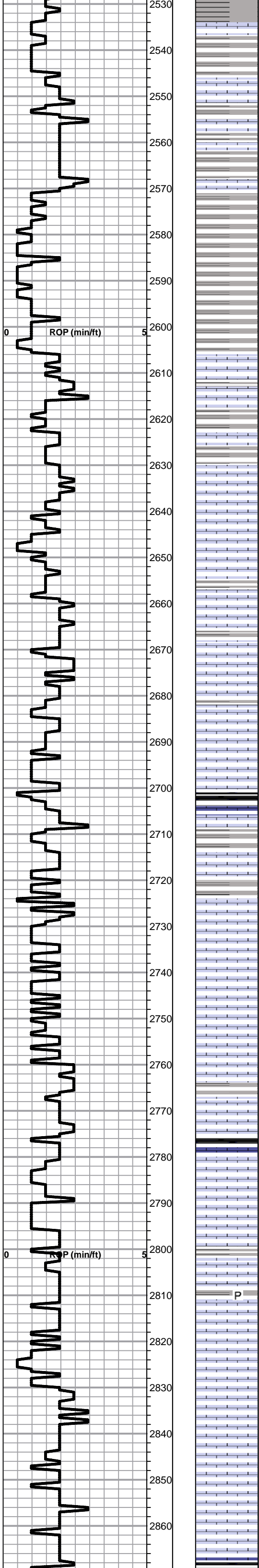
MINERAL	FOSSIL
P Pyrite	o Oolite
△ Chert White	o Oomoldic
▧ Euhed rhombs of dol or	

OTHER SYMBOLS

DST
 DST Int
 DST alt

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





TOPEKA ELog 2606-834

Lime, lt-med brn, fnxln, fossiliferous

Lime, crm-lt brn, fnxln, fossiliferous, fusulinids

Lime, crm-lt brn, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln, slightly fossiliferous
Shale, med gray, blocky

Lime, lt-med brn, fnxln with fusulinids

Lime, crm-lt brn, fnxln to granular in part, scattered bedded chalk

Lime, lt-dark brn-grayish brn, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln

Lime, crm-med brn, fnxln, fossiliferous in part

Shale, black carbonaceous

Lime, lt-med brn, fnxln with calcareous shale with fossil fragments

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

Lime, lt brn, fnxln

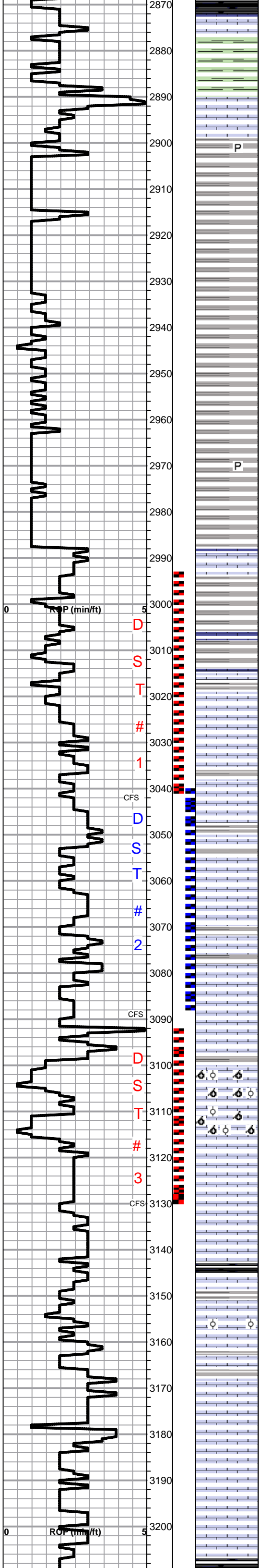
Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

HEEBNER SHALE ELog 2868-1096

FINISH DISPLACEMENT
OF MUD SYSTEM



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

Shale, dove gray to lime green

TORONTO ELog 2890-1118
Lime, crm, mostly fnxln, scattered hvy oil stain in vuggy porosity

DOUGLAS SHALE ELog 2899-1127
Shale, lt gray-lt 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-vfxln, 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-vfxln, few chips with flaky gilsonite, NFO

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

Lime, crm-lt-med brn, mostly fn-vfxln

Lime, crm-lt-med brn, fn-vfxln

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

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

Lime, brn-grayish brn, fn-vfxln

Lime, crm, mostly fnxln with bed of fossil fragments, scattered stain with very lite odor, NFO

Lime, med brn, vfxln

Shale, dove gray forming soft mud balls

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

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

Lime, med brn, fnxln

Lime, lt-med grayish brn, fn-vfxln

Shale, gray-black carbonaceous

Lime, crm-lt-med brn, mostly fnxln with scattered oolitic chips with fair odor, lt scattered to saturated staining

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

Lime, lt-med grayish brn, fnxln

Lime, lt-med brn, fn-vfxln

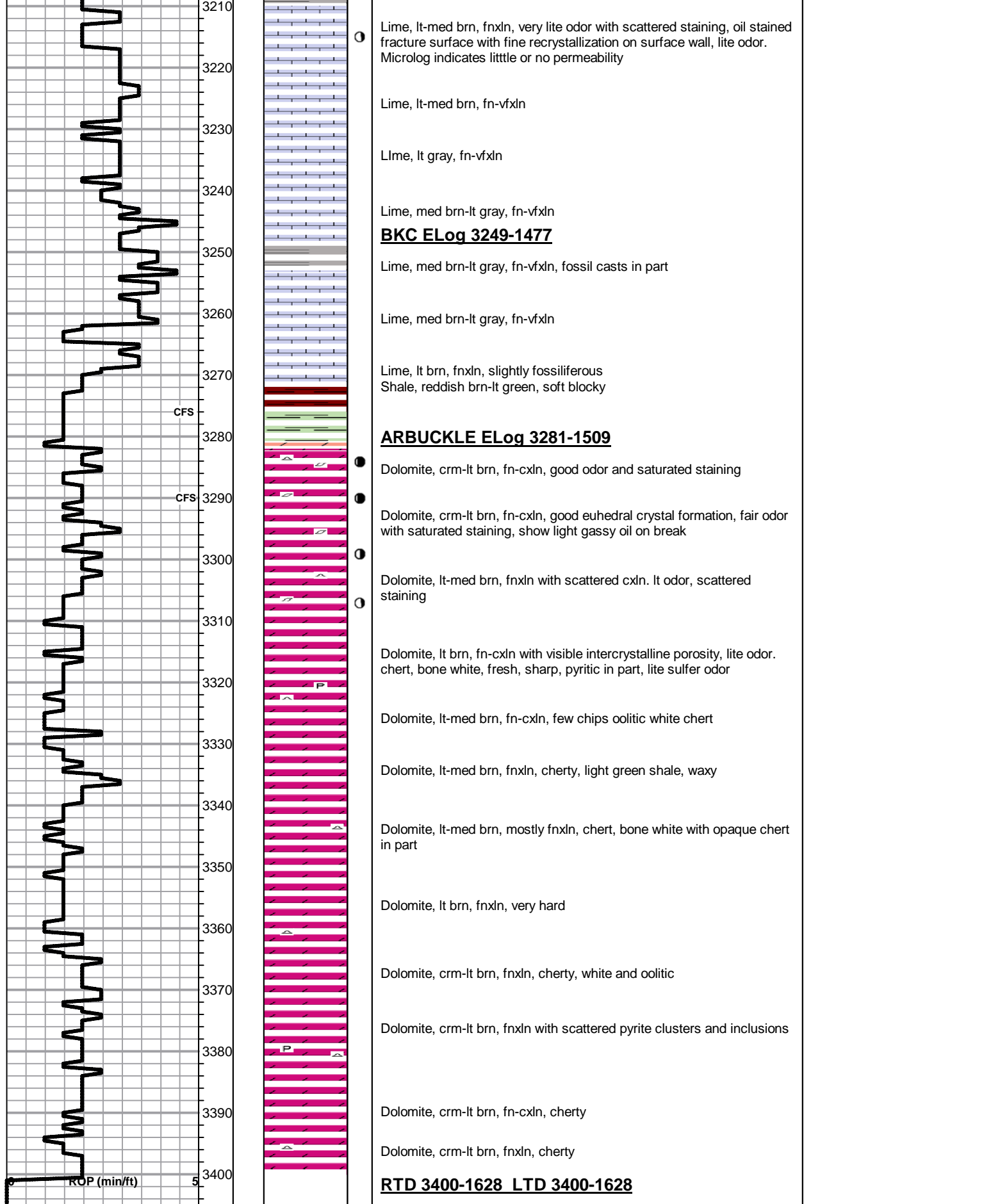
Lime, lt-med brnish gray, fnxln

Lime, med brn, fn-vfxln

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





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		

Cement surface

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 7/29/12

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>1230 PM</u>	JOB FINISH <u>130 PM</u>
LEASE <u>Matzel</u>		WELL# <u>4</u>		LOCATION <u>Ellinwood East To Coli</u>		COUNTY <u>Barton</u>	STATE <u>Ks</u>
OLD OR <u>NEW</u> (Circle one)				<u>1/4 North west 1-10</u>			

CONTRACTOR Southwind Rig OWNER Cavie Exploration

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 261

CASING SIZE 8 5/8 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

EQUIPMENT

PUMP TRUCK CEMENTER Wayne D

378 HELPER Kevin R Vince P

BULK TRUCK DRIVER Kevin W

482 DRIVER

BULK TRUCK DRIVER

DRIVER

CEMENT

AMOUNT ORDERED 200 5X CLASS A + 3% GCL

+ 2% GCL used 175 5X

COMMON 175 @ 16.25 2,843.75

POZMIX @

GEL 3 @ 21.25 63.75

CHLORIDE 6 @ 58.20 349.20

ASC @

POZMIX @

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REMARKS:

Pipe on Bottom Break circulation
with Rig mud
Run 5 BBLs Ahead
Mix 200 5X CLASS A + 3% GCL + 2% GCL
Displace 15.50 BBLs fresh water
Shut in
Cement did circulate.

SERVICE

DEPTH OF JOB 265

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE Hvm 17 @ 7.00 119.00

MANIFOLD @

Lvm 17 @ 4.00 68.00

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CHARGE TO: Cavie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1312.00

PLUG & FLOAT EQUIPMENT

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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.

PRINTED NAME William Sanders

SIGNATURE William Sanders

SALES TAX (If Any) _____

TOTAL CHARGES 5,308.25

DISCOUNT 25% 1,327.23

IF PAID IN 30 DAYS

3,981.02



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

C

- Acidizing
- Cement
- Tool Rental

*pd
 ok #3200
 7-11-12*

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	Wayne
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
578D-L	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
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MER
OIL EXPLORATION

WELL NO. #4

LEASE MATZEK

JOB TYPE 5 1/2" LONGSTRING

TICKET NO. 22689

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'
								CENTRALIZERS - 4, 6, 7, 8, 9, 11, 15, 45
								CNT BSRIS - 7, 46
								PORT COWL = 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 (30SKS) MH (15SKS)
	1653	6 1/4	32		✓		300	MIX CEMENT 130 SKS FA-2 @ 15.4 PPG "
	1658							WASH OUT PUMP + LINES
	1658							RELEASE CATCH DOWN PLUG
	1700	7 1/2	0		✓			DISPLACE PLUG (1ST 36 BBLs KCL-H2O) "
	1712	6	82.3				1500	PLUG DOWN - PREP UP CATCH IN PLUG
	1715							OK RELEASE PRE-HEW
								WASH TRUCK
	1800							JOB COMPLETE

THANK YOU
WAYNE JEFF DAVIS



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

TICKET CONTINUATION

TICKET No. 22689

CUSTOMER
GARDER EXPLOSION

WELL
MATZEK #4

DATE 7-7-12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY	UM	QTY	UM				
325		1				STANDARD CEMENT	175	SBS				13.50	2362.50	
276		1				FLOCELE	50	lbs				2.00	100.00	
283		1				SALT	900	lbs				.20	180.00	
284		1				CAISAK	8	SBS	800	lbs		35.00	280.00	
286		1				HMW-1	100	lbs				7.50	750.00	
290		1				D-ADR	2	gal				35.00	70.00	
581		1				SERVICE CHARGE						2.00	350.00	
583		1				MILEAGE CHARGE						1.00	640.50	
TOTAL WEIGHT							18300							
LOADED MILES							70							
CUBIC FEET							175							
TON MILES							640.5							

CONTINUATION TOTAL 4733.00



Services, Inc.

CHARGE TO: **CARRIE EXPLOREATION**
 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 Southwind Drig.	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE 5 1/2" holestrings	WELL PERMIT NO.	WELL LOCATION Summers Ks - E/Colb, Hwy,		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		UM	QTY.	UM		
575		1			MILEAGE # 110	70	MIL		6.00	420.00
578		1			Pump Charge	1	JOB	3391.14	1500.00	1500.00
221		1			Heard Ke	5	GM		25.00	125.00
280		1			FLOCHER-21	330	GM		2.50	825.00
402		1			CUTSTAIRS	8	EA	5 1/2"	70.00	560.00
403		1			Censer Baskets	2	EA		250.00	500.00
404		1			Port Cover	1	EA	1572.14	2400.00	2400.00
406		1			Large Down Plug - BAFELE	1	EA		250.00	250.00
407		1			Tracer from Shoe w/ Auto Fall	1	EA		350.00	350.00
419		1			Rotarok 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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL #1 7130.00

PAGE TOTAL #2 4733.00

Subtotal 11,863.00
 TAX 653.53
 Barton 7.38
 TOTAL 12,516.53

DATE SIGNED **7-7-12** TIME SIGNED **1400** **8:00 P.M.**

DAVE WATSON APPROVAL

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

Thank You!

ELAND

Acid & Cement

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

Invoice

Page: 1

BURRTON, KS GREAT BEND, KS
 (620) 463-5161 (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
 7-23-12*

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: <u><u>7,155.70</u></u>		
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 Gressel Oil Field Service

Gressel 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