



KANSAS CORPORATION COMMISSION 1106378  
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 # 3208  
Name: K & N Petroleum, Inc.  
Address 1: 1105 Walnut  
Address 2:  
City: Great Bend State: KS Zip: 67530 +  
Contact Person: Ed Nemnich  
Phone: ( 620 ) 793-6005  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Jim Musgrove  
Purchaser: NCRA

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 #:  
10/16/2012 10/22/2012 11/05/2012  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-159-22711-00-00  
Spot Description: NE SW NW NE Sec. 29 Twp. 18 S. R. 10  East  West  
833 Feet from  North /  South Line of Section  
2097 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rice  
Lease Name: Moos 'A' Well #: 2  
Field Name: Orth West  
Producing Formation: Arbuckle  
Elevation: Ground: 1742 Kelly Bushing: 7  
Total Depth: 3310 Plug Back Total Depth: 3287  
Amount of Surface Pipe Set and Cemented at: 459 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Feet  
If Alternate II completion, cement circulated from: 459  
feet depth to: 0 w/ 325 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 13200 ppm Fluid volume: 1200 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Outlaw Tank Service  
Lease Name: Wirtz License #: 31070  
Quarter NE Sec. 33 Twp. 19 S. R. 12  East  West  
County: Barton Permit #: E-28319

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: 01/08/2013



1106378

Operator Name: K & N Petroleum, Inc. Lease Name: Moos 'A' Well #: 2  
 Sec. 29 Twp. 18 S. R. 10  East  West County: Rice

**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: <b>Attached</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See Attached
---	---

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	8.6250	23	459	60/40 Poz	325	6% CC, 3% CC
Production	7.875	5.500	14.5	3309	60/40 Poz	220	2% gel, 18% Sil, 3/4% CFRZ, 5#

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
9	Perf 3252'-3254' Arbuckle	Perf thru Aectic 250 gallons	3252'-54'

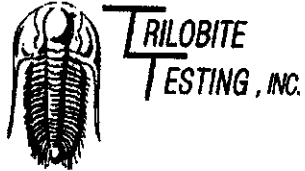
TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>3305</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>12/01/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf	Water Bbls. <u>10</u>
		Gas-Oil Ratio	Gravity <u>37</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-1B.)</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>Arb 3252'-54'</u>
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Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Moos 'A' 2
Doc ID	1106378

All Electric Logs Run

Pioneer
DIL
CNL
MEL
BHGS



**DRILL STEM TEST REPORT**

Prepared For: **K & N Petroleum**  
1105 Walnut  
Great Bend, KS 67530

ATTN: Jim Musgrove

**Moos #A 2**

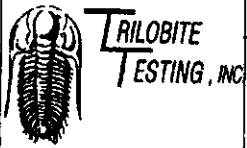
**29-18s-10w Rice,KS**

Start Date: 2012.10.21 @ 10:29:15  
End Date: 2012.10.21 @ 16:59:15  
Job Ticket #: 49691      DST #: 1

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

Printed: 2012.10.23 @ 15:17:40

K & N Petroleum    29-18s-10w Rice,KS    Moos #A 2    DST #1    Lansing "K"    2012.10.21



# DRILL STEM TEST REPORT

K & N Petroleum  
 1105 Walnut  
 Great Bend, KS 67530  
 ATTN: Jim Musgrove

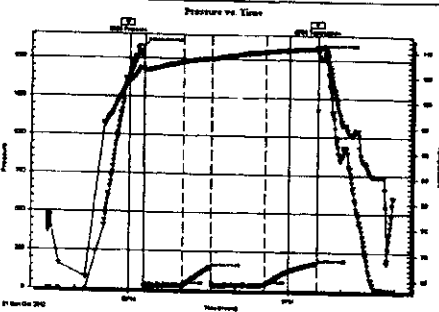
29-18s-10w Rice, KS  
 Moos #A 2  
 Job Ticket: 49691 DST#: 1  
 Test Start: 2012.10.21 @ 10:29:15

## GENERAL INFORMATION:

Formation: Lansing "K"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:16:30  
 Time Test Ended: 16:59:15  
 Interval: 3126.00 ft (KB) To 3150.00 ft (KB) (TVD)  
 Total Depth: 3150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Leal Cason  
 Unit No: 45  
 Reference Elevations: 1745.00 ft (KB)  
 1738.00 ft (CF)  
 KB to GRVCF: 7.00 ft

Serial #: 6798 Inside  
 Press@RunDepth: 34.39 psig @ 3127.00 ft (KB)  
 Start Date: 2012.10.21 End Date: 2012.10.21 Capacity: 8000.00 psig  
 Start Time: 10:29:16 End Time: 16:59:15 Last Carb.: 2012.10.21  
 Time On Btm: 2012.10.21 @ 12:15:45  
 Time Off Btm: 2012.10.21 @ 15:33:30

TEST COMMENT: F: Weak Blow, Built to 2"  
 1st No Blow Back  
 FF: Weak Blow, Built to 1"  
 FSt No Blow Back



## PRESSURE SUMMARY

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.30	106.48	Initial Hydro-static
1	17.50	106.06	Open To Flow (1)
46	26.07	107.75	Shut-In (1)
77	145.83	108.50	End Shut-In (1)
77	22.42	108.45	Open To Flow (2)
138	34.39	109.91	Shut-In (2)
197	175.69	110.63	End Shut-In (2)
198	1546.14	110.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	SOSM -1%O +99%M	0.70

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (M/dag)



**DRILL STEM TEST REPORT**

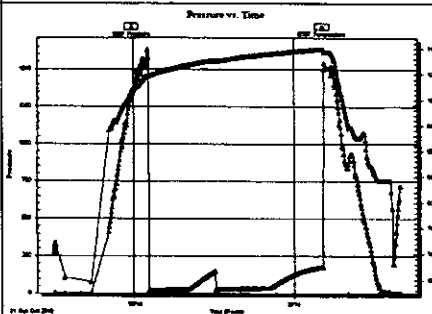
K & N Petroleum	28-18s-10w Rice, KS
1105 Walnut Great Bend, KS 67530	Moos #A 2
ATTN: Jim Musgrove	Job Ticket: 49691     DST#: 1
	Test Start: 2012.10.21 @ 10:29:15

**GENERAL INFORMATION:**

Formation: Lansing "K"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason
Time Tool Opened: 12:18:30	Unit No: 45
Time Test Ended: 16:59:15	Reference Elevations: 1745.00 ft (KB)
Interval: 3126.00 ft (KB) To 3150.00 ft (KB) (TVD)	1738.00 ft (CF)
Total Depth: 3150.00 ft (KB) (TVD)	KB to GRPCF: 7.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8367	Outside	3127.00 ft (KB)	Capacity: 8000.00 psig
Press@Run/Depth: psig @			Last Calib.: 2012.10.21
Start Date: 2012.10.21	End Date: 2012.10.21		
Start Time: 10:29:31	End Time: 16:59:30	Time On Blm:	Time Off Blm:

TEST COMMENT: IF: Weak Blow, Built to 2"  
 IS: No Blow Back  
 FF: Weak Blow, Built to 1"  
 FSI: No Blow Back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
50.00	SOSM -1% O +99% M	0.70

**Gas Rates**

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



**TRIOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

K & N Petroleum

29-18s-10w Rice, KS

1105 Walnut  
Great Bend, KS 67530

Moos #A 2

Job Ticket: 49691 DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.10.21 @ 10:29:15

**Tool Information**

Drill Pipe:	Length: 3126.00 ft	Diameter: 3.80 inches	Volume: 43.85 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 35000.00 lb
			<b>Total Volume: 43.85 bbl</b>	Tool Chased: ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3126.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3111.00	
Hydraulic tool	5.00			3116.00	
Packer	5.00			3121.00	20.00 Bottom Of Top Packer
Packer	5.00			3126.00	
Stubb	1.00			3127.00	
Recorder	0.00	6796	Inside	3127.00	
Recorder	0.00	8367	Outside	3127.00	
Perforations	20.00			3147.00	
Bullnose	3.00			3150.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

K & N Petroleum  
29-18s-10w Rice, KS  
1105 Walnut  
Great Bend, KS 67530  
Moos #A 2  
Job Ticket: 49691 DST#: 1  
ATTN: Jim Musgrove  
Test Start: 2012.10.21 @ 10:29:15

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 8.37 in\*  
Resistivity: ohm.m  
Salinity: 8500.00 ppm  
Filter Cake: 0.02 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil A/R:  
Water Salinity: deg A/R  
ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
50.00	SOSM-.1%O+.99%M	0.701

Total Length: 50.00ft Total Volume: 0.701 bbl  
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:  
Laboratory Name: Laboratory Location:  
Recovery Comments:

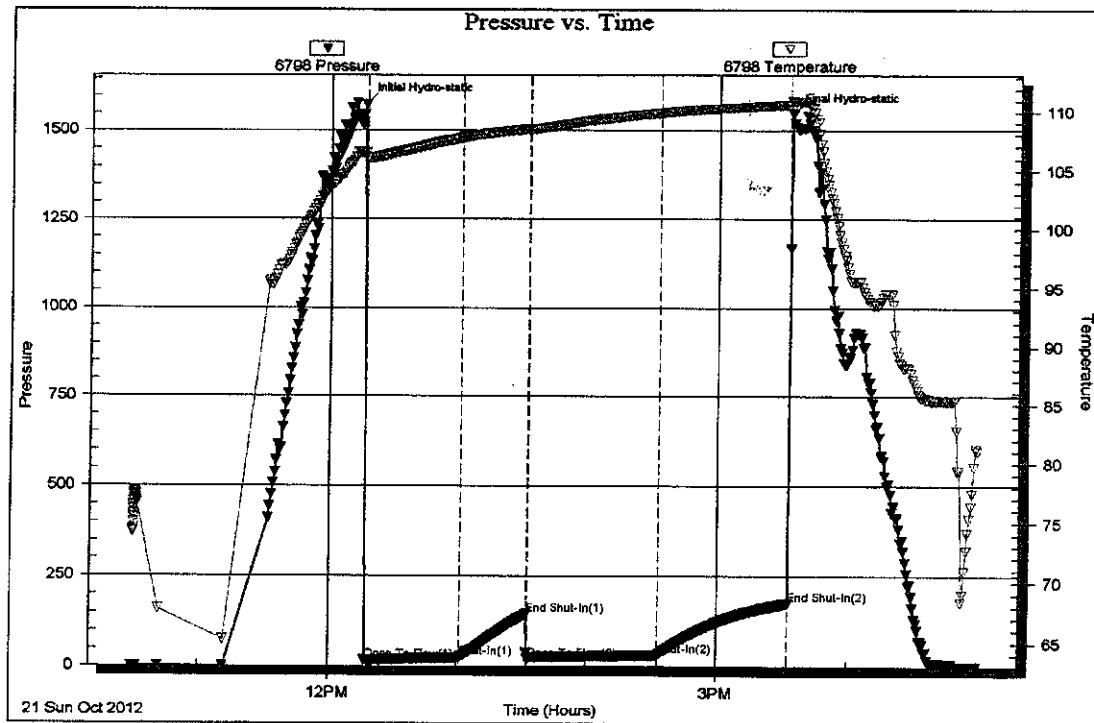


Serial #: 6798

Inside K & N Petroleum

Moos #A 2

DST Test Number: 1

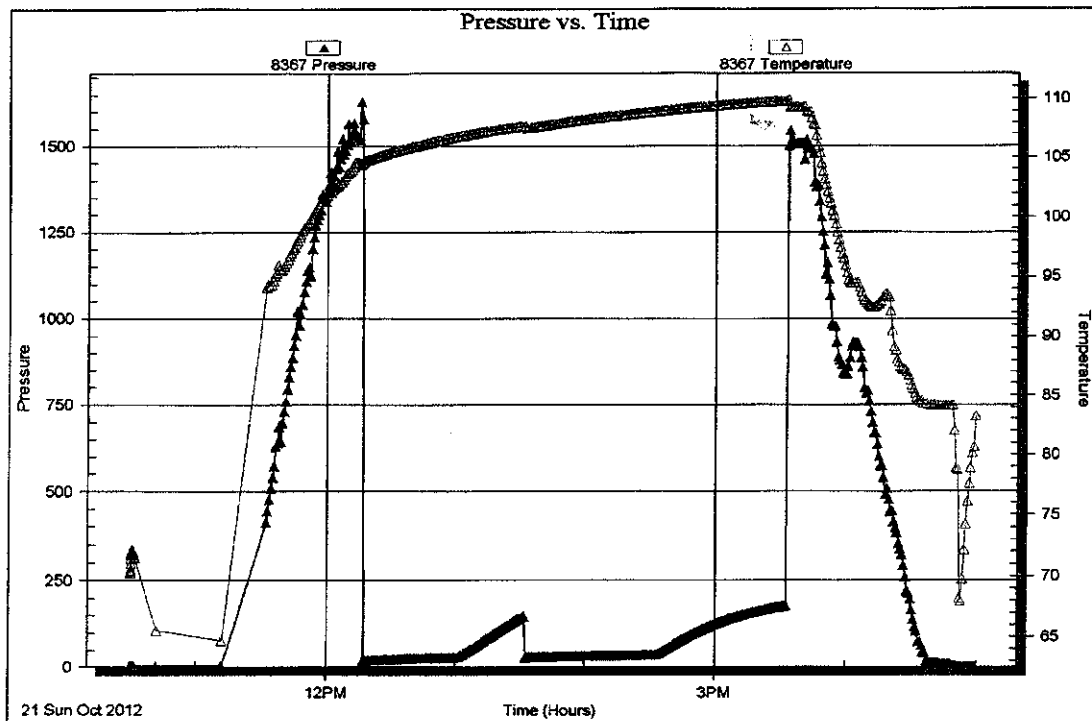


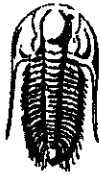
Serial #: 8367

Outside K & N Petroleum

Moos #A 2

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **K & N Petroleum**  
1105 Walnut  
Great Bend, KS 67530

ATTN: Jim Musgrove

**Moos #A 2**

**29-18s-10w Rice, KS**

Start Date: 2012.10.22 @ 08:40:30  
End Date: 2012.10.22 @ 12:37:15  
Job Ticket #: 49692      DST #: 2

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

Printed: 2012.10.23 @ 15:16:53

29-18s-10w Rice, KS      Moos #A 2      DST #: 2      2012.10.22



**TRIOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

K & N Petroleum  
1105 Walnut  
Great Bend, KS 67530  
ATTN: Jim Musgrove

29-18s-10w Rice, KS  
Moos #A 2  
Job Ticket: 49692 DST#: 2  
Test Start: 2012.10.22 @ 06:40:30

**GENERAL INFORMATION:**

Formation: Arbuckle  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:32:00  
Time Test Ended: 12:37:15

Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 45

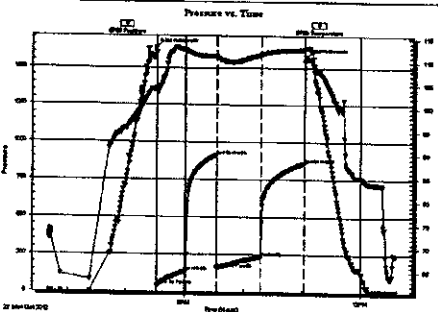
Interval: 3180.00 ft (KB) To 3255.00 ft (KB) (TVD)  
Total Depth: 3255.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches/ble Condition: Good

Reference Elevations: 1745.00 ft (KB)  
1738.00 ft (CF)  
KB to GRICE: 7.00 ft

Serial #: 6798 Inside  
Press@RunDepth: 235.08 psig @ 3181.00 ft (KB)  
Start Date: 2012.10.22 End Date: 2012.10.22  
Start Time: 06:40:31 End Time: 12:37:15

Capacity: 8000.00 psig  
Last Calib.: 2012.10.22  
Time On Blm: 2012.10.22 @ 08:30:46  
Time Off Blm: 2012.10.22 @ 11:03:45

TEST COMMENT: IF: Fair Blow, BOB in 14 minutes  
IS: No Blow Back  
FF: Fair Blow, BOB in 29 minutes  
FST No Blow Back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.78	104.07	Initial Hydro-static
2	41.75	103.81	Open To Flow (1)
31	137.83	112.40	Shut-In(1)
62	912.19	111.16	End Shut-In(1)
62	156.09	110.91	Open To Flow (2)
107	235.08	111.32	Shut-In(2)
152	861.36	112.60	End Shut-In(2)
153	1572.44	112.87	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
126.00	Gassy MVCO 30%G 5%M 12%W 53%O	1.77
190.00	SOWCM 2%O 10%W 90%M	2.67
199.00	SOCM 10%O 90%M	2.79

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

K & N Petroleum  
1105 Walnut  
Great Bend, KS 67530  
ATTN: Jim Musgrove

29-18s-10w Rice, KS  
Moos #A 2  
Job Ticket: 49692 DST#: 2  
Test Start: 2012.10.22 @ 06:40:30

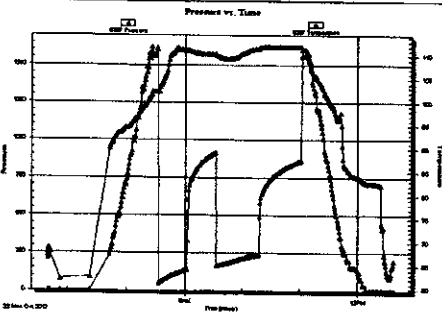
**GENERAL INFORMATION:**

Formation: Arbuckle  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:32:00  
Time Test Ended: 12:37:15  
Interval: 3180.00 ft (KB) To 3255.00 ft (KB) (TVD)  
Total Depth: 3255.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1745.00 ft (KB)  
1738.00 ft (CF)  
KB to GRVCF: 7.00 ft

**Serial #: 8367** Outside  
Press@RunDepth: psig @ 3181.00 ft (KB)  
Start Date: 2012.10.22 End Date: 2012.10.22 Capacity: 8000.00 psig  
Start Time: 06:40:31 End Time: 12:37:00 Last Calib.: 2012.10.22  
Time On Btm: Time Off Btm:

**TEST COMMENT:** IF: Fair Blow, BOB in 14 minutes  
IS: No Blow Back  
FF: Fair Blow, BOB in 29 minutes  
FS: No Blow Back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
126.00	Gassy MMCO 30%G 5%M 12%W 53%O	1.77
190.00	SOWCM 2%O 10%W 90%M	2.67
199.00	SOCM 10%O 90%M	2.79

**Gas Rates**

Flow (inches)	Pressure (psig)	Gas Rate (ft/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

K & N Petroleum  
29-18s-10w Rice, KS  
1105 Walnut  
Great Bend, KS 67530  
Moos #A 2  
Job Ticket: 49692 DST#: 2  
ATTN: Jim Musgrove  
Test Start: 2012.10.22 @ 06:40:30

**Tool Information**

Drill Pipe: Length: 3189.00 ft Diameter: 3.80 inches Volume: 44.73 bbl Tool Weight: 2100.00 lb  
 Heavy Wl. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb  
 Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl Weight to Pull Loose: 32000.00 lb  
 Drill Pipe Above KB: 29.00 ft Total Volume: 44.73 bbl Tool Chased ft  
 Depth to Top Packer: 3180.00 ft String Weight: Initial 28000.00 lb  
 Depth to Bottom Packer: ft Final 30000.00 lb  
 Interval between Packers: 75.00 ft  
 Tool Length: 95.00 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			3165.00	
Hydraulic tool	5.00			3170.00	
Packer	5.00			3175.00	20.00 Bottom Of Top Packer
Packer	5.00			3180.00	
Stub	1.00			3181.00	
Recorder	0.00	6798	Inside	3181.00	
Recorder	0.00	8367	Outside	3181.00	
Perforations	2.00			3183.00	
Change Over Sub	1.00			3184.00	
Drill Pipe	63.00			3247.00	
Change Over Sub	1.00			3248.00	
Perforations	4.00			3252.00	
Bullnose	3.00			3255.00	75.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

K & N Petroleum

29-18a-10w Rice, KS

1105 Walnut  
Great Bend, KS 67530

Moos #A 2

Job Ticket: 49692 DST#: 2

ATTN: Jim Musgrove

Test Start: 2012.10.22 @ 06:40:30

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in*	Gas Cushion Type:		
Resistivity: ohm m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	Gassy MWCO 30%G 5%M 12%W 53%O	1.767
190.00	SOMCM 2%O 10%W 90%M	2.865
199.00	SOCM 10%O 90%M	2.791

Total Length: 515.00 ft Total Volume: 7.223 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

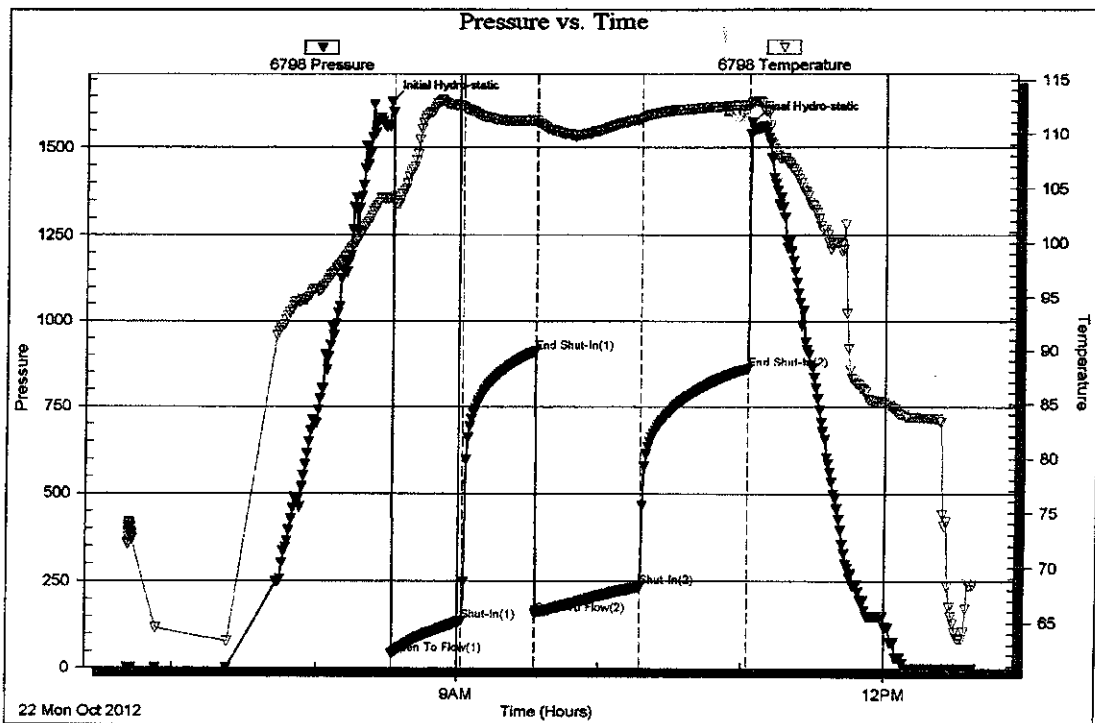
Recovery Comments:

Serial #: 6798

Inside K & N Petroleum

Moos #A 2

DST Test Number: 2



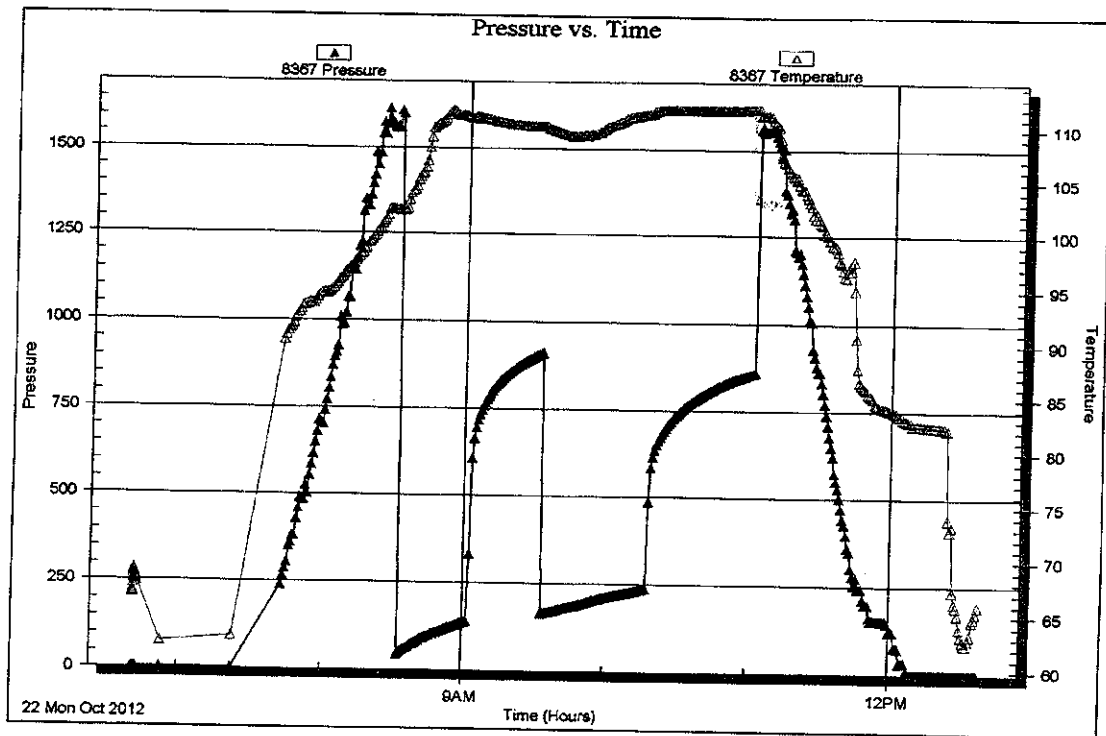


Serial #: 8367

Outside K & N Petroleum

Moos #A 2

DST Test Number: 2





**TRILOBITE TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

**Test Ticket**

NO. 49691

Well Name & No. MOOS A 2 Test No. 1 Date 10/21/12  
 Company K+N Petroleum Elevation 1745 KB 1238 GL  
 Address 1105 Walnut Great Bend, KS 67530  
 Co. Rep / Geo. Jim Musgrave Rig Southwind 4  
 Location: Sec. 29 Twp. 18S Rge. 10W Co. Rice State KS

Interval Tested 3126 - 3150 Zone Tested Lansing "K"  
 Anchor Length 24 Drill Pipe Run 3126 Mud Wt. 9.5  
 Top Packer Depth 3121 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3126 Wt. Pipe Run 0 WL 8.4  
 Total Depth 3150 Chlorides 8500 ppm System LCM

Blow Description IF: Weak Blow Built to 2 inches

DST: NO Blow Back

FF: Weak Blow Built to 1 inch

FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>505M</u>	<u>-1</u>		<u>+99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 110° Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1576  Test 1150 T-On Location 09:15  
 (B) First Initial Flow 17  Jars T-Started 10:29  
 (C) First Final Flow 26  Safety Joint T-Open 12:16  
 (D) Initial Shut-In 146  Circ Sub T-Puffed 15:32  
 (E) Second Initial Flow 22  Hourly Standby T-Out 16:59  
 (F) Second Final Flow 34  Mileage (150) 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 176  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1548  Straddle \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1382.50  
 Accessibility MP/DST Disc't \_\_\_\_\_  
 Sub Total 1392.50

Approved By [Signature] Our Representation [Signature]

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tool lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

### Test Ticket

NO. 49692

Well Name & No. Moos A 2 Test No. 2 Date 10/22/12  
 Company K+N Petroleum Elevation 1745 KB 1738 GL  
 Address 1105 Walnut Great Bend, KS 67530  
 Co. Rep / Geo. Jim Musgrove Rig Southwind 4  
 Location: Sec. 29 Twp. 18S Rge. 10W Co. Rice State KS

Interval Tested 3180 - 3255 Zone Tested Arbuckle  
 Anchor Length 75 Drill Pipe Run 2189 Mud Wt. 9.5  
 Top Packer Depth 3175 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3180 Wt. Pipe Run 0 WL 8.4  
 Total Depth 3255 Chlorides 8500 ppm System LCM

Blow Description IF: Fair Blow, BOB in 14 minutes

IS: No Blow Back

FF: Fair Blow, BOB in 29 minutes

FS: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
199	Feet of <u>50cm</u>		10	90	
190	Feet of <u>50cm</u>				
126	Feet of <u>Grassy M.W.C.</u>	30	53	12	5
	Feet of				
	Feet of				
515	BHT <u>112°</u>				

Rec Total 515 Gravity n/c API RW n/c @ n/c °F Chlorides n/c ppm  
 (A) Initial Hydrostatic 1633  Test 1150 T-On Location 06:15  
 (B) First Initial Flow 42  Jars \_\_\_\_\_ T-Started 06:40  
 (C) First Final Flow 138  Safety Joint \_\_\_\_\_ T-Open 08:32  
 (D) Initial Shut-In 912  Circ Sub \_\_\_\_\_ T-Pulled 11:02  
 (E) Second Initial Flow 156  Hourly Standby \_\_\_\_\_ T-Out 12:37  
 (F) Second Final Flow 235  Mileage (150) 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 861  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1572  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1382.50  
 Sub Total 1382.50 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative \_\_\_\_\_  
 Trilobite Testing Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or for statements or opinions concerning the results of any test, tools lost or damaged in the hole shall be paid for at least by the party for whom the test is made.



TREATMENT REPORT

Acid Stage No. ....

Date: 10/2/72 District: C-65 F. O. No. C-9179  
 Company: ...  
 Well Name & No.: ...  
 Location: Field: ...  
 County: ... State: ...  
 Casing: Size: 5 1/2" Type & Wt.: ... Set at: ... ft.  
 Formation: ... Perf. to: ...  
 Liner: Size: ... Type & Wt.: ... Top at: ... ft. Bottom at: ... ft.  
 Cemented: Yes/No. Perforated from: ... ft. to: ... ft.  
 Tubing: Size & Wt.: ... Swung at: ... ft.  
 Perforated from: ... ft. to: ... ft.  
 Open Hole Rise: ... ft. P. U. to: ... ft.

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand  
 Breakdown: ... Bbl./Gal. ...  
 Flush: ... Bbl./Gal. ...  
 Treated from: ... ft. to: ... ft. No. ft. ...  
 Actual Volume of Oil/Water to Load Hole: ... Bbl./Gal.  
 Pump Trucks, No. Used: 816 Sp. Twin  
 Auxiliary Equipment: 17/365  
 Packer: ... Set at: ... ft.  
 Auxiliary Tools: ...  
 Logging or Sealing Materials: Type: ...

Company Representative: Ed M. Treater: Nathan G.

TIME (A.M./P.M.)	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
10:00		5 1/2"		On location
:				
:				Work = 3000
:				5 1/2" cut
:				Pipe = 3800
:				1 1/2" 8" Perforated = 3800
:				5300
:				ST = 13
:				Work = 3800
:				Work = circulation w/ mud pump
:				Circulate 30 min
:				Pump 600 gal. Mud flush
:				Plug Rod - Hole w/ 30' cts
:				Mix 220 cts 14% w/ 28 gal. 14% salt
:				1 1/2" CFP-2. 8" st. silicate
:				Work cut pumping loss
:				Pressure w/ 30' cts @ 1 1/2" rpm @
:				1000# The treated @ 1.500#
11:00				Perforated. Flood Hole.
:				
:				Work done
:				Nathan G.





James C. Musgrove  
Petroleum Geologist

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Home  
(820) 387-3444

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Ken Petroleum Inc.</u>	ELEVATIONS
WELL <u>Maos-A #2</u>	KU <u>1746</u>
FIELD <u>ORTH west</u>	DF _____
POINT ON <u>NE-SW-NW-NE (833' FNL + 2097' FEL)</u>	GL <u>1738</u>
SEC <u>29</u> TWP <u>18<sup>s</sup></u> RGE <u>10<sup>w</sup></u>	Measurement: Are All
COUNTY <u>Rice</u> STATE <u>Kansas</u>	From <u>-KB-</u>
CONTRACTOR <u>Southward Drilling Co. (rig #4)</u>	CASING
DATE <u>10/16/12</u> COMP <u>10/22/12</u>	DEPTH <u>872' to 459'</u>
WELL <u>3310</u> ID <u>3312</u>	PRODUCTS <u>5/2" e</u>
MUD WT <u>2600</u> TYPE MUD <u>Chemical displaced</u>	ELECTRICAL SURVEYS
	By <u>Pioneer DIL</u>
	<u>CH/CDL, MEL, BHCS</u>
FEET SAVED FROM <u>2700</u>	TO _____
FEET NOT KEPT FROM <u>2700</u>	TO _____
SAMPLES EXAMINED FROM <u>2700</u>	TO _____
LOGICAL SUPERVISION FROM <u>2900</u>	TO _____
GEOLOGIST ON WELL <u>Jim Musgrove</u>	

RTD

FORMATION TOPS	LOG	SAMPLES
anhydrite	490	+1256
Base anhydrite	504	+1242
Heebner	2787	-1041
Toronto	2806	-1060
Douglas	2820	-1074
Brown Lime	2908	-1162
Wansing	2926	-1180
Free Kansas City	3190	-1444
Conglomerate	3197	-1451
Arbuckle	3232	-1486
RTD	3310	-1564
LTD	3312	-1566