Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1174702

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 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 & Clint Musgrove
Purchaser: Plains

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

09/25/2013 Spud Date or Recompletion Date
10/01/2013 Date Reached TD
10/17/2013 Completion Date or Recompletion Date

API No. 15 - 15-009-25882-00-00
Spot Description:
NW SW SE SE Sec. 9 Twp. 19 S. R. 11 ☐ East ☑ West
508 Feet from ☐ North / ☑ South Line of Section
1082 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barton
Lease Name: Klepper Well #: 9-1
Field Name: Ahrens North
Producing Formation: Arbuckle
Elevation: Ground: 1775 Kelly Bushing: 1783
Total Vertical Depth: 3430 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 392 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: 78000 ppm Fluid volume: 600 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 12/31/2013

[redacted] 1174702

Operator Name: K & N Petroleum, Inc. Lease Name: Klepper Well #: 9-1

Sec. 9 Twp. 19 S. R. 11 ☐ East ☑ West County: Barton

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☑ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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	12.2500	8.6250	23	392	175 sxs.65/35 Poz & 150 sxs.o	325	6% gel, 3% CC & 2% gel, 3% CC
Production	7.8750	5.50	14	3427	60/40 Poz	200	2% gel, 18% salt

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	3366-3369	750 gals. Acid	

TUBING RECORD: Size: 2.3750 Set At: 3395 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 10/21/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	0	10		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☑ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
Arbuckle

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Klepper 9-1
Doc ID	1174702

All Electric Logs Run

Cement Bond Log
Dual Compensated Porosity Log
Microresistivity Log
Dual Induction Log
Borehole Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Klepper 9-1
Doc ID	1174702

Tops

Name	Top	Datum
Anhydrite	578	+1205
Base Anhydrite	602	+1181
Heebner	2927	-1144
Toronto	2948	-1165
Douglas	2958	-1175
Brown Lime	3046	-1263
Lansing	3064	-1281
Base Kansas City	3310	-1527
Conglomerate	3338	-1555
Arbuckle	3358	-1575
RTD	3430	-1647
LTD	3430	-1647

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54465 **DST#: 1**

Test Start: 2013.09.29 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:30:00
Time Test Ended: 13:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 53

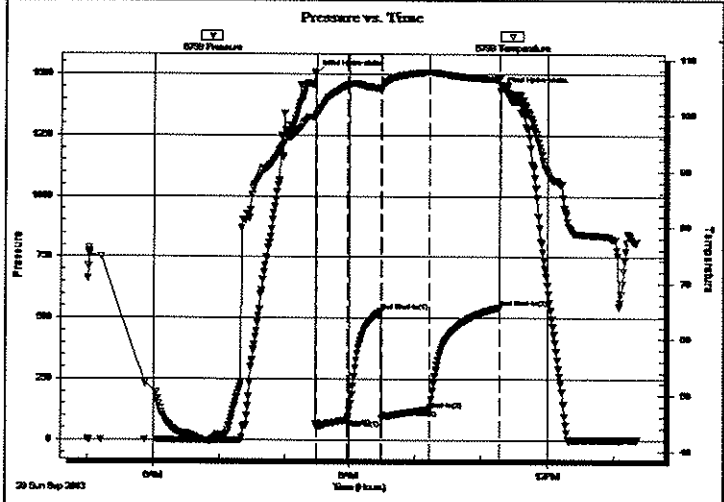
Interval: 3047.00 ft (KB) To 3143.00 ft (KB) (TVD)
Total Depth: 3143.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6799 **Inside**
Press@RunDepth: 126.64 psig @ 3117.00 ft (KB)
Start Date: 2013.09.29 End Date: 2013.09.29
Start Time: 05:00:05 End Time: 13:21:29

Capacity: 8000.00 psig
Last Calib.: 2013.09.29
Time On Btm: 2013.09.29 @ 08:28:30
Time Off Btm: 2013.09.29 @ 11:17:30

TEST COMMENT: 30 - IF- B.O.B. in 1 1/2 minutes
30 - ISI- No return
45 - FF- B.O.B. in 2 minutes
60 - FSI- Surface return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1500.21	100.12	Initial Hydro-static
2	53.89	100.23	Open To Flow (1)
30	83.50	105.46	Shut-In(1)
60	526.99	104.80	End Shut-In(1)
62	90.29	104.72	Open To Flow (2)
105	126.64	107.75	Shut-In(2)
169	544.64	106.40	End Shut-In(2)
169	1431.46	106.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GSOCMW, 5%G, 5%O, 10%M, 80%W	0.87
62.00	GWM, 30%G, 30%W, 40%M	0.87
77.00	SOCM, 5%G, 10%O, 85%M	1.08
0.00	930' of G.I.P.	0.00

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54465 **DST#: 1**

Test Start: 2013.09.29 @ 05:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	42.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

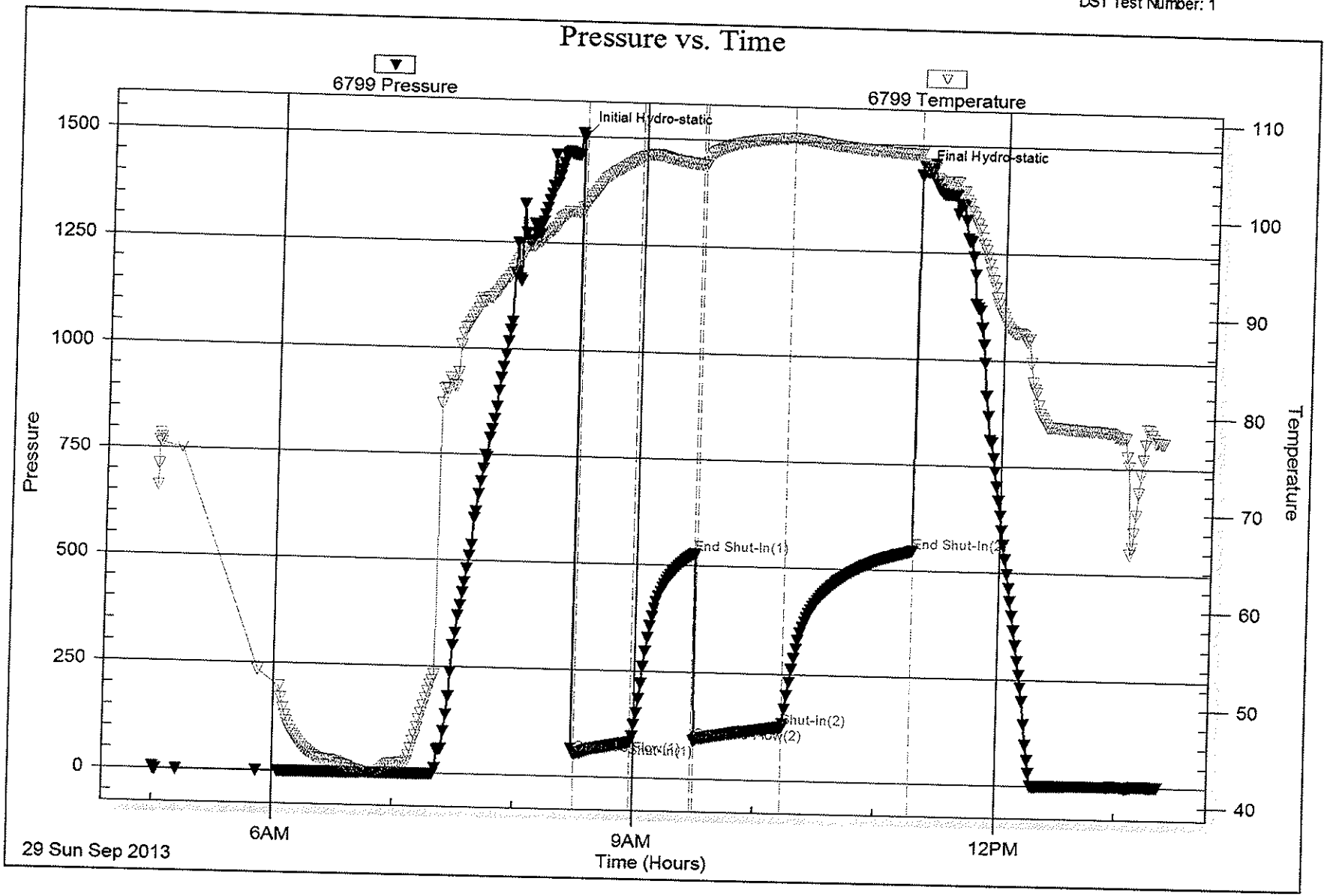
Recovery Table

Length ft	Description	Volume bbl
62.00	GSOCMW, 5%G, 5%O, 10%M, 80%W	0.870
62.00	GWM, 30%G, 30%W, 40%M	0.870
77.00	SOCM, 5%G, 10%O, 85%M	1.080
0.00	930' of G.I.P.	0.000

Total Length: 201.00 ft Total Volume: 2.820 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6799 **Inside** K & N Petroleum Inc Klepper #9-1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54465 Printed: 2013.10.03 @ 11:41:13

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54466 **DST#: 2**

Test Start: 2013.09.30 @ 03:50:00

GENERAL INFORMATION:

Formation: LKC "J"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:55:15
Time Test Ended: 10:13:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 53

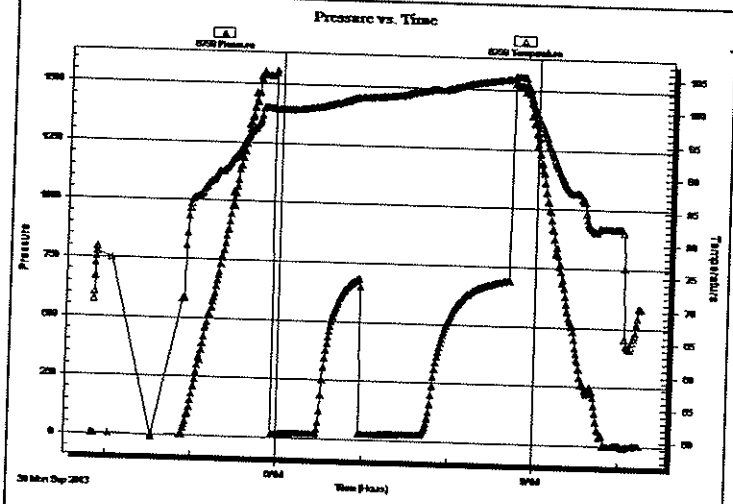
Interval: **3224.00 ft (KB) To 3260.00 ft (KB) (TVD)**
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6799 **Inside**
Press@RunDepth: psig @ 3230.00 ft (KB)
Start Date: 2013.09.30 End Date: 2013.09.30
Start Time: 03:50:05 End Time: 10:14:44

Capacity: 8000.00 psig
Last Calib.: 2013.09.30
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- 1 1/2" blow
30 - ISI- No return
45 - FF-3/4" blow
60 - FSI- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	WM, 30%W, 70%M	0.63

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54466 **DST#: 2**

Test Start: 2013.09.30 @ 03:50:00

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:	36000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7600.00 ppm				
Filter Cake:	inches				

Recovery Information

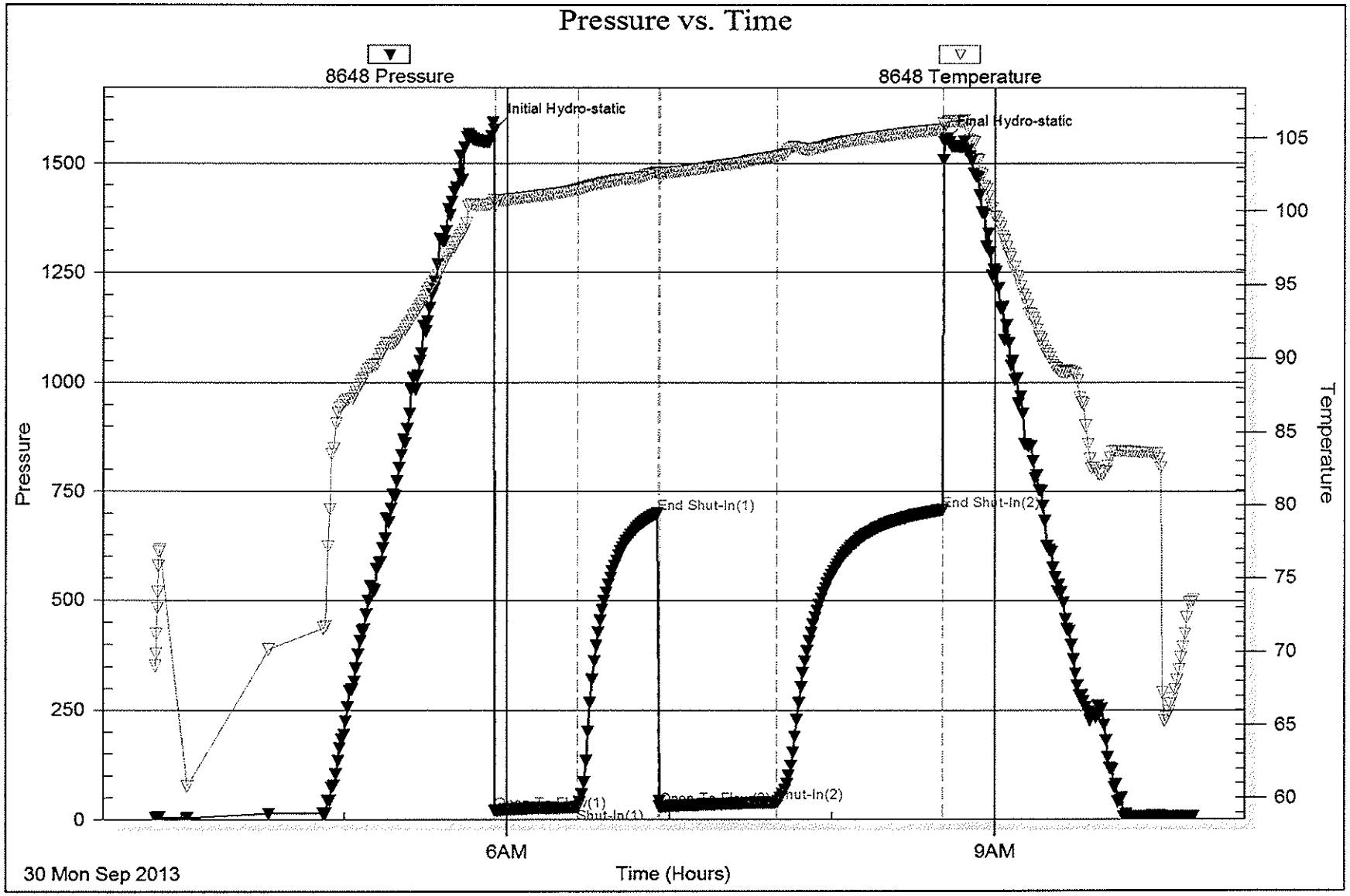
Recovery Table

Length ft	Description	Volume bbl
45.00	WM, 30%W, 70%M	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: Salinity: .25 @ 55 Degrees = 36000

Serial #: 8648 **Outside** K & N Petroleum Inc Klepper #9-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54466 Printed: 2013.10.03 @ 11:39:52

DRILL STEM TEST REPORT

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54467 **DST#: 3**

Test Start: 2013.09.30 @ 20:09:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:58:15
Time Test Ended: 02:05:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 53

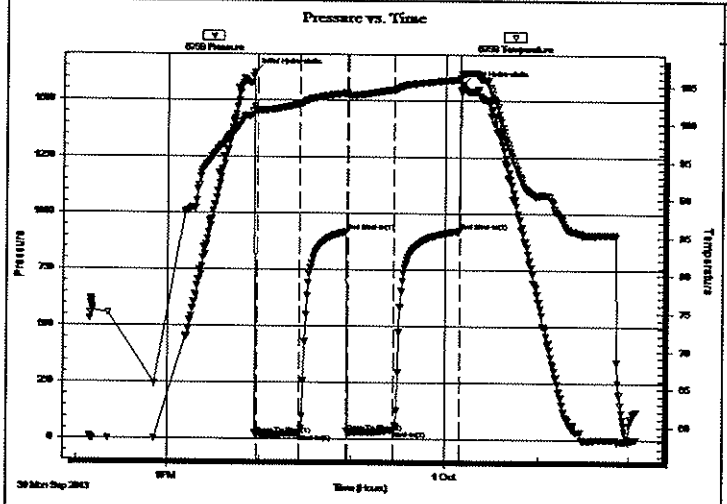
Interval: **3306.00 ft (KB) To 3345.00 ft (KB) (TVD)**
Total Depth: 3345.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6799 **Inside**
Press@RunDepth: 38.66 psig @ 3310.00 ft (KB)
Start Date: 2013.09.30 End Date: 2013.10.01
Start Time: 20:09:05 End Time: 02:04:59

Capacity: 8000.00 psig
Last Calib.: 2013.10.01
Time On Btm: 2013.09.30 @ 21:56:15
Time Off Btm: 2013.10.01 @ 00:10:45

TEST COMMENT: 30 - IF- 3" blow
30 - ISI- No return
30 - FF- 1/8" blow
45 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.91	102.09	Initial Hydro-static
2	20.08	101.71	Open To Flow (1)
30	23.60	102.52	Shut-In(1)
61	918.89	104.02	End Shut-In(1)
62	32.05	103.72	Open To Flow (2)
91	38.66	104.48	Shut-In(2)
133	922.62	105.86	End Shut-In(2)
135	1570.28	106.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	GSOCM, 10%G, 10%O, 80%M	0.73
20.00	Free Oil, 100%O	0.28
0.00	124' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54467 **DST#: 3**

Test Start: 2013.09.30 @ 20:09:00

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	inches				

Recovery Information

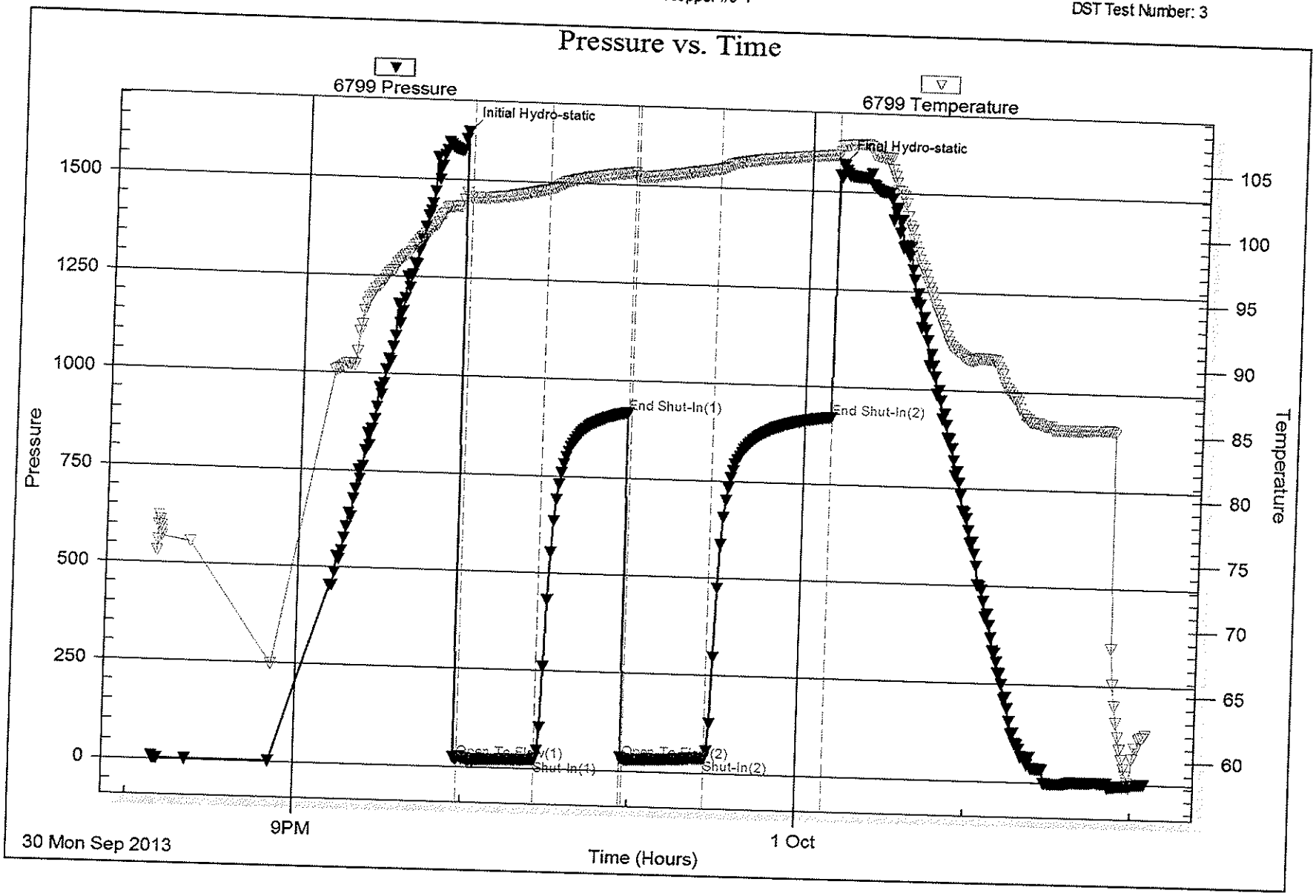
Recovery Table

Length ft	Description	Volume bbl
52.00	GSOCM, 10%G, 10%O, 80%M	0.729
20.00	Free Oil, 100%O	0.281
0.00	124' of G.I.P.	0.000

Total Length: 72.00 ft Total Volume: 1.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6799 **Inside** K & N Petroleum Inc Klepper #9-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 54467 Printed: 2013.10.03 @ 11:39:24

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54468 **DST#: 4**

Test Start: 2013.10.01 @ 10:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:51:00
Time Test Ended: 17:05:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 53

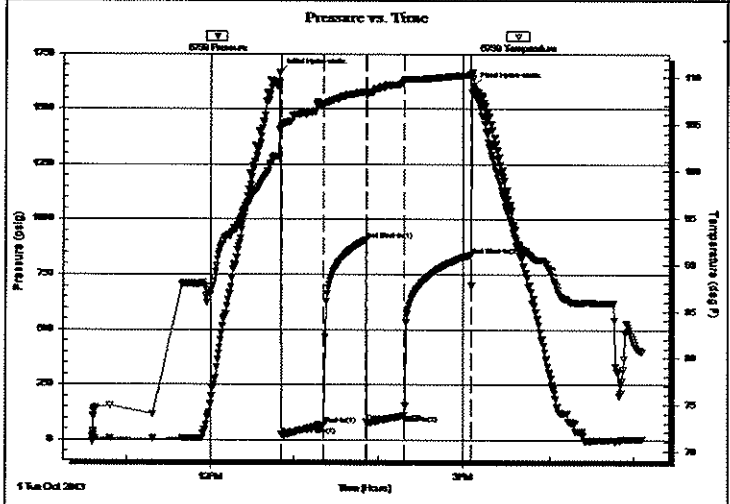
Interval: 3368.00 ft (KB) To 3380.00 ft (KB) (TVD)
Total Depth: 3380.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6799 **Inside**
Press@RunDepth: 113.45 psig @ 3377.00 ft (KB)
Start Date: 2013.10.01 End Date: 2013.10.01
Start Time: 10:37:05 End Time: 17:05:29

Capacity: 8000.00 psig
Last Calib.: 2013.10.01
Time On Btm: 2013.10.01 @ 12:49:45
Time Off Btm: 2013.10.01 @ 15:07:00

TEST COMMENT: 30 - IF- B.O.B. in 17 minutes
30 - ISI- Surface Return
30 - FF-8" blow
45 - FSI-Surface return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.56	104.51	Initial Hydro-static
2	22.44	104.87	Open To Flow (1)
32	69.52	107.06	Shut-In(1)
62	904.61	108.49	End Shut-In(1)
62	81.51	108.09	Open To Flow (2)
89	113.45	109.67	Shut-In(2)
136	839.02	110.30	End Shut-In(2)
138	1604.03	109.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCWM, 10%W, 20%O, 70%M	0.87
126.00	GO, 40%G, 60%O	1.77
35.00	GO, 50%G, 50%O	0.49
0.00	93' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMAR

K & N Petroleum Inc

1105 Walnut
Great Bend, KS 67530

ATTN: Jim Musgrove

9-19s-11w Barton KS

Klepper #9-1

Job Ticket: 54468 **DST#: 4**

Test Start: 2013.10.01 @ 10:37:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	10000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCWM, 10%W, 20%O, 70%M	0.870
126.00	GO, 40%G, 60%O	1.767
35.00	GO, 50%G, 50%O	0.491
0.00	93' of G.I.P.	0.000

Total Length: 223.00 ft Total Volume: 3.128 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 39@100 Degrees = 35

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. .....

Date 9/25/13 District G.B F. O. No. CHUKI

Company Linn Petroleum

Well Name & No. Harper 9-1

Location ..... Field .....

County Meade State Ks

Casing: Size 5 5/8" Type & Wt. ..... Set at ..... ft.

Formation: ..... Perf. ..... to .....

Formation: ..... Perf. ..... to .....

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 Size ..... T.D. ..... ft. P.B. to ..... ft.

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	Bbl. /Gal.			
	Bbl. /Gal.			
	Bbl. /Gal.			
	Bbl. /Gal.			
Flush	Bbl. /Gal.			

Treated from ..... ft. to ..... ft. No. ft.

from ..... ft. to ..... ft. No. ft.

from ..... ft. to ..... ft. No. ft.

Actual Volume of Oil/Water to Load Hole: ..... Bbl. /Gal.

Pump Trucks. No. Used: Std. 300 Sp. ..... Twin .....

Auxiliary Equipment 360/310

Packer: ..... Set at ..... ft.

Auxiliary Tools .....

Plugging or Sealing Materials: Type .....

..... Gals. ..... lb.

Company Representative Ed Treater Nathan Wood

TIME a.m./(p.m.)	PRESSURES Tubing	PRESSURES Casing	Total Fluid Pumped	REMARKS
9 :00	—	5 5/8"		On Location
				Hole - 392'
				Pipe - 382'
				C.J - 10'
				392' Bkdn. = 23 bbls
				Break circulation W/ pump truck
				Mix 175 sks 65/35 for 6% gel 3% C.C.
				Mix 150 sks 60/40 poz 2% gel 3% B.C.
				Displace w/ 23 bbls. Circulated cement to surface.
11 :00				
				Thank You!
				Nathan W.

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. ....

Date 10/2/13 District G.B F. O. No. C41467

Company KCW Petroleum

Well Name & No. Klepper 9-1

Location .... Field ....

County Barber State KS

Casing: Size 5½" Type & Wt. 14.0# Set at .... ft.

Formation: .... Perf. .... to ....

Formation: .... Perf. .... to ....

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 Size .... T.D. .... ft. P.B. to .... ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl. /Gal.			
		Bbl. /Gal.			
		Bbl. /Gal.			
		Bbl. /Gal.			
Flush		Bbl. /Gal.			

Treated from .... ft. to .... ft. No. ft. ....

from .... ft. to .... ft. No. ft. ....

from .... ft. to .... ft. No. ft. ....

Actual Volume of Oil/Water to Load Hole: .... Bbl. /Gal.

Pump Trucks. No. Used: Std. 360 Sp. .... Twin ....

Auxiliary Equipment 360/310

Packer: .... Set at .... ft.

Auxiliary Tools ....

Plugging or Sealing Materials: Type ....

.... Gals. .... lb.

Company Representative Ed Treater Nathan W.

TIME a.m./p.m.	PRESSURES Tubing	Casing	Total Fluid Pumped	REMARKS
9:00	-	5½"		On Location.
:				
:				Hole - 3430'
:				
:				Pipe @ 3426' Centralizers - 1,3,5,7,9
:				Baffle @ 3413' Basket - 4
:				
:				45
:				Circulate for ~~[illegible]~~ min.
:				
:				Pump 600 gal. Mud-Flush.
:				
:				Plug Rat-Hole w/ 30 sks.
:				
:				Mix 200 sks. 60/40 poz. 2% gel 18% salt
:				3/4% CFR-2 3/4% de-foamer 5#/sk.
:				Gilsonite.
:				
:				Displace w/ 83.2 bbls @ 7½ bpm - 950#
:				Plug landed @ 1,400# Released.
:				Float Held.
:				
:				
:				
:				
:				
:				Thank You!
:				
:				Nathan W.
:				
:				
:				
:				
:				

MORNING DRILLING REPORT

For: K&N Petroleum, Inc.

SOUTHWIND DRILLING, INC.

RIG No. 6

Well Name: Klepper #9-1
Location: 508' FSL & 1082' FEL
Section: 9-19S-11W
County: Barton
API: 15-009-25882-00-00

Elevation: 1775'
KB: 1783'
Est. TD: 3400'
Conductor: N/A

Surface Casing: Ran 9 joints of new 23#, 8 5/8" casing, Tally @ 392', Set @ 392', used total of 325 sacks, 175 sacks of 65/35 Poz, 6% gel, 3% cc, 150 sacks of 60/40 Poz, 2% gel, 3%cc, cement circulated, by Copeland (Ticket #041461), plug down @ 11:00 pm on 09.24.13.

Production Info: Ran 82 joints of new 14#, 5 1/2" casing, Tally @ 3419', Set @ 3427', used 200 sacks of 60/40 Poz, 2% gel, 18% salt, 3/4% CFP, 3/4% Defoamer, 5# Gilsonite, cemented by Copeland (Ticket #241467), job complete @ 3:00 pm on 10.02.13.

Rotary Total Depth: 3430'
Log Total Depth: 3430'

Rig No. 6 (Pusher Wes Pfaff) 620 566-7094
Rig No. 6 (Doghouse) 620 566-7156
Southwind Drilling Office 620 564-3800

Geologist: Jim Musgrove

7:00 A.M. Depth: **3430'**

7:00 A.M. Current Operation: **TEAR DOWN**

Spud Date & Time: *09/25/2013 @ 3:30 PM*	09/25/13 Day 1	09/26/13 Day 2	09/27/13 Day 3	09/28/13 Day 4	09/29/13 Day 5	09/30/13 Day 6	10/01/13 Day 7	10/02/13 Day 8	Total
Total Depth (7:00am)	0	392	1810	2735	3143	3260	3372	3430	
Daily Progress	392	1418	925	408	117	112	58	0	**3430**
Ft. Per Hr.	142.55	74.63	46.25	33.31	29.25	26.35	38.67	0.00	**53.80**
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	TOWB	DST #2	Drilling	CTCH	
Formation	Surface	Surface	Sand / Shale	Shale	Shale	KC "J"	Congl.	Arbuckle	
Fuel Used	215.53	328.50	450.47	312.01	228.16	228.81	136.24	134.58	**2034.30**
Survey (degree & depth)	3/4° @ 392'			1° @ 3143'			3/4° @ 3430'		
Mud Info									
Mud Cost	$0.00	$0.00	$0.00	$6,861.00	$416.50	$2,045.10	$299.25		**$9,621.85**
Weight (# / Gal)		9.9	8.6	9.2	8.6	9.2	9.2		
Vis (Funnel)		29	44	47	48	51	54		
Water Loss (cc)				8.8	11.2	9.2	10.4		
Bit #1									
Bit Make / Type	JZ Tooth ReTip								
Bit Size	12 1/4								
Bit Hours	2.75								**2.75**
Bit #2									
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours		19.00	20.00	12.25	4.00	4.25	1.50		**61.00**
Bit Cumulative Hours	**2.75**	**19.00**	**20.00**	**12.25**	**4.00**	**4.25**	**1.50**	**0.00**	**63.75**
Weight on Bit (WOB)	20,000	30,000	35,000	35,000	35,000	35,000	35,000		
RPM	100	85	80	80	80	80	70		
Pump Pressure	400	800	750	800	800	800	800		
Drilling (Rotating) Hours	**2.75**	**19.00**	**20.00**	**12.25**	**4.00**	**4.25**	**1.50**	**0.00**	**63.75**
Daywork Hrs. (Operator's time)									
Rat Hole (>.75 Hrs)									**0.00**
Wait on Cement	8.00								**8.00**
Trip				3.50	7.25	8.25	9.25		**28.25**
Circulate				3.75	3.50	5.25	5.25		**17.75**
Tool				0.50	1.25	1.50	1.25		**4.50**
Testing					3.75	4.25	2.25		**10.25**
Clean Floor					0.25				**0.25**
Logging							4.00		**4.00**
LDDP & LDDC								3.25	**3.25**
Run Casing / Cement	2.00							3.00	**5.00**