



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

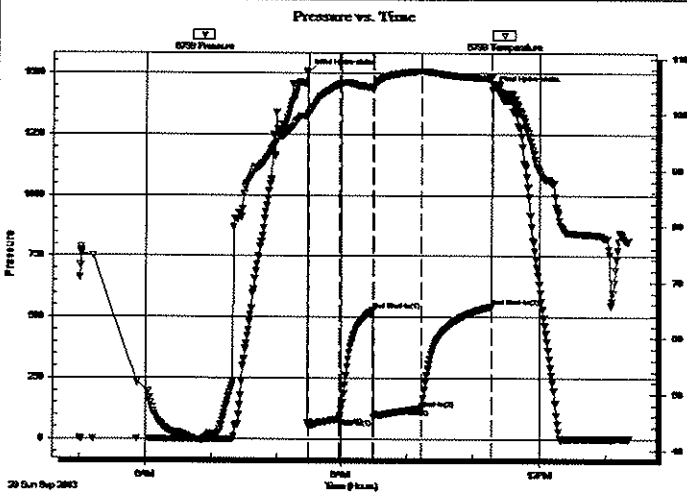
9-19s-11w Barton KS
Klepper #9-1
Job Ticket: 54465 DST#: 1
Test Start: 2013.09.29 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:30:00
Time Test Ended: 13:21:30
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**
Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 53

Serial #: 6799 Inside
Press@RunDepth: 126.64 psig @ 3117.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.29 End Date: 2013.09.29 Last Calib.: 2013.09.29
Start Time: 05:00:05 End Time: 13:21:29 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 - IS- No return
45 - FF- B.O.B. in 2 minutes
60 - FS- Surface return



PRESSURE SUMMARY

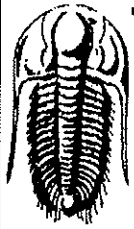
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1500.21	100.12	Initial Hydro-static
2	53.89	100.23	Open To Flow (1)
30	83.50	105.46	Shut-In(1)
60	526.99	104.80	End Shut-In(1)
62	90.29	104.72	Open To Flow (2)
105	126.64	107.75	Shut-in(2)
169	544.64	106.40	End Shut-In(2)
169	1431.46	106.71	Final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



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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 in ³	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

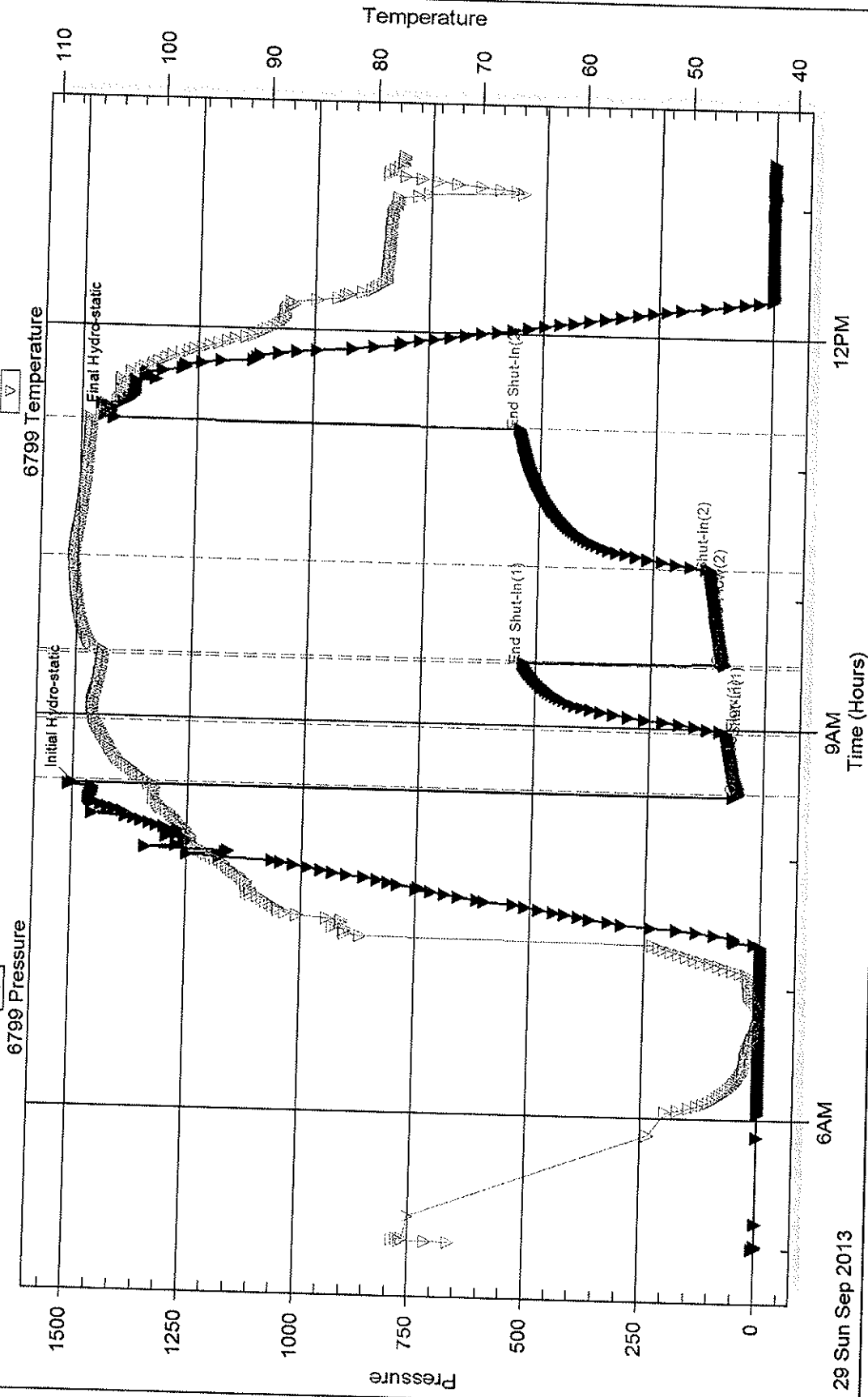
Inside

K & N Petroleum Inc

Klepper #9-1

DST Test Number: 1

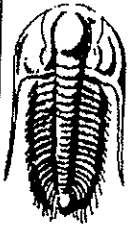
Pressure vs. Time



Tribotest Testing, Inc

Ref. No: 54465

Printed: 2013.10.03 @ 11:41:13



**TRILOBITE
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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:	Water Salinity:	36000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume:		
Water Loss: 11.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
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

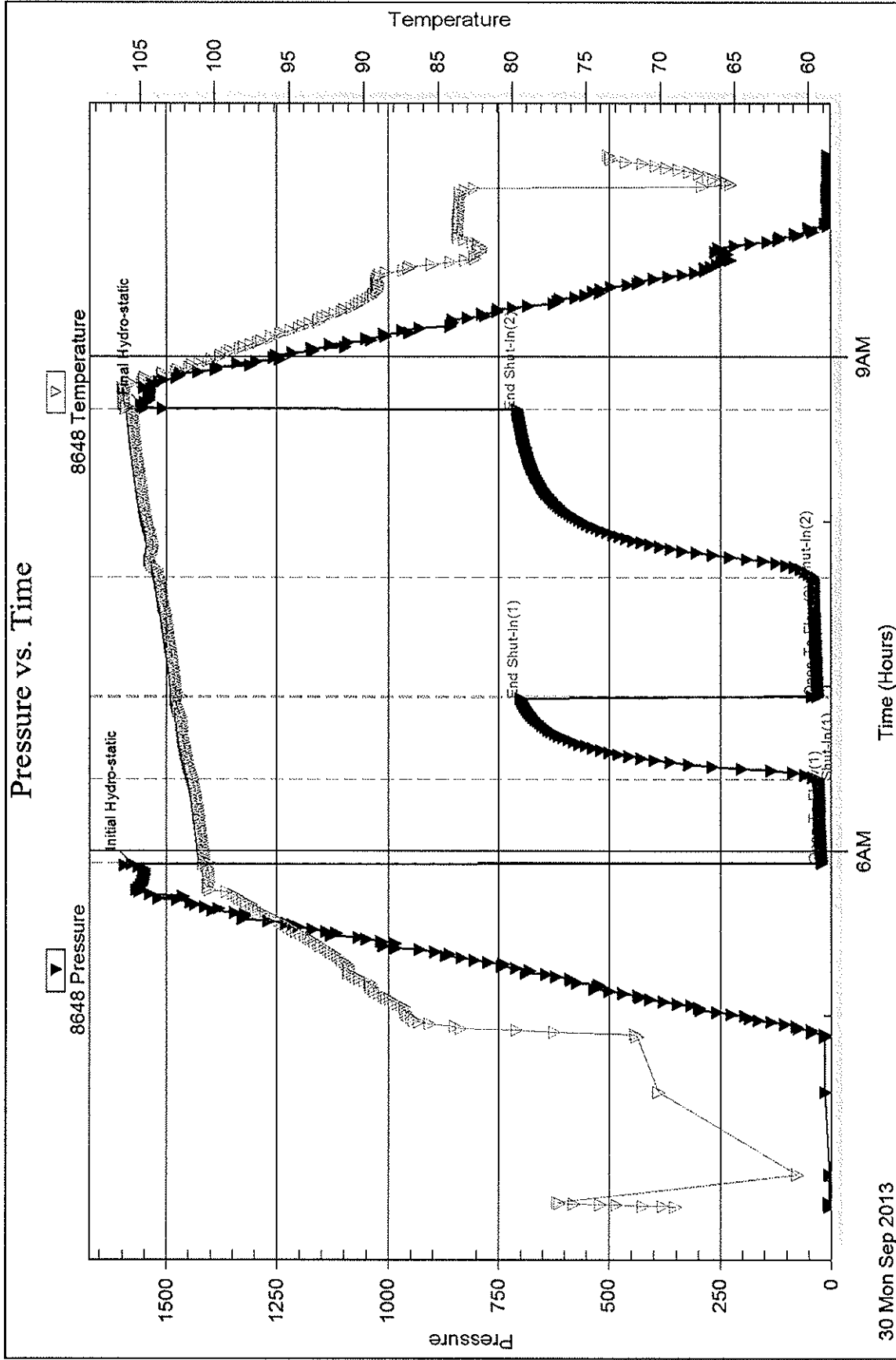
Total Length: 45.00 ft Total Volume: 0.631 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: .25 @ 55 Degrees = 36000

Serial #: 8648

Outside K & N Petroleum Inc

Klepper #9-1

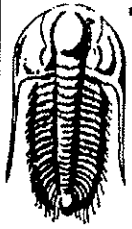
DST Test Number: 2



Tribote Testing, Inc

Ref. No: 54466

Printed: 2013.10.03 @ 11:39:52



TRILOBITE TESTING, INC.

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

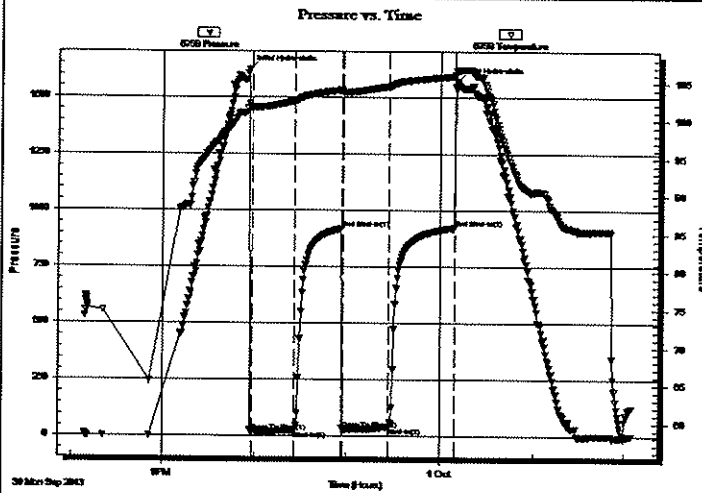
GENERAL INFORMATION:

Formation: **Conglomerate Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:58:15
 Time Test Ended: 02:05:00
 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
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Cody Bloedorn**
 Unit No: **53**
 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 - IS- No return
 30 - FF- 1/8" blow
 45 - FS- 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

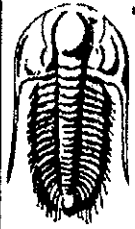
Recovery

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)



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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 in ³	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

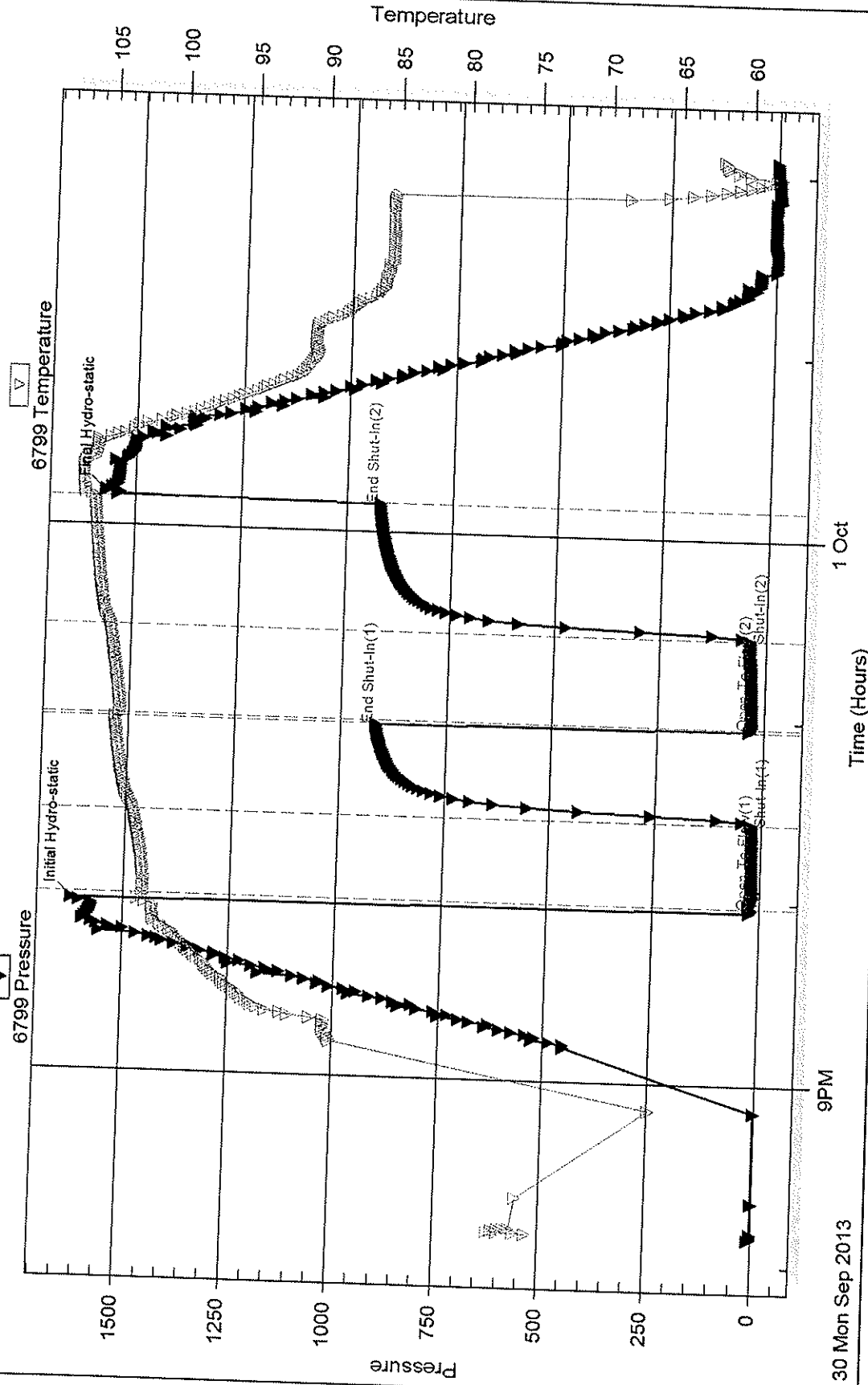
Inside

K & N Petroleum Inc

Klepper #9-1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54467

Printed: 2013.10.03 @ 11:39:24



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1105 Walnut
Great Bend, KS 67530
ATTN: Jim Musgrove

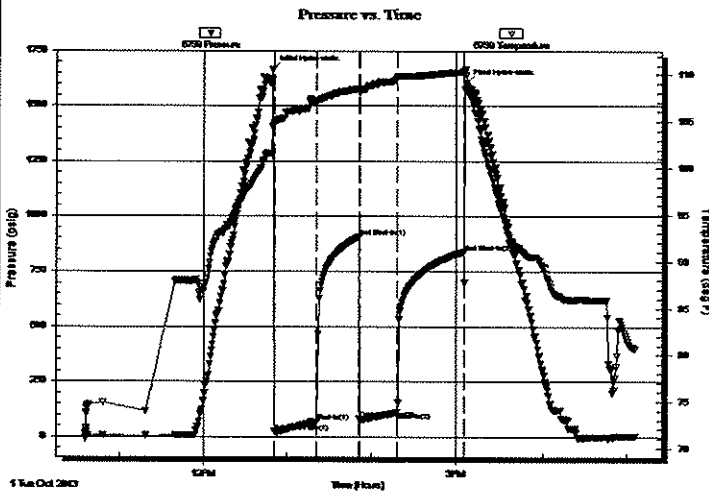
9-19s-11w Barton KS
Klepper #9-1
Job Ticket: 54468 DST#: 4
Test Start: 2013.10.01 @ 10:37:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:51:00
Time Test Ended: 17:05:30
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**
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 53

Serial #: 6799 Inside
Press@RunDepth: 113.45 psig @ 3377.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
Start Time: 10:37:05 End Time: 17:05:29 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

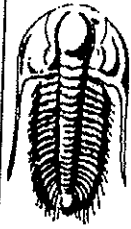
Recovery

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)



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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
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 10.39 in³
Resistivity: ohm.m
Salinity: 10000.00 ppm
Filter Cake: inches

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

Oil API: 35 deg API
Water Salinity: ppm

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

TREATMENT REPORT

Acid Stage No.

Date 9/25/13 District G.R. F.O. No. C41461

Company Lincoln Petroleum

Well Name & No. Elgore-9-1

Location _____ Field _____

County Deaton State ES

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

Breakdown: _____ 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 300/310

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		Total Fluid Pumped	REMARKS
	Tubing	Casing		
9:00	-	5 5/8"		On location
:				
:				
:				Hole - 392'
:				Dipr - 382'
:				C.S. - 10'
:				392' Dipr = 236'
:				
:				Break circulation w/ pump truck
:				Mix 175 sta. 65% slt for 6% sol. 3% C.C.
:				Mix 150 sta. w/ pump 2% sol. 3% G.C.
:				Displace w/ 23 bbls. Circulated cement to surface.
11:00				
:				
:				
:				
:				
:				
:				
:				Thank you!
:				Nathan Wood

TREATMENT REPORT

Acid Stage No.

Date 10/2/13 District G.B F. O. No. C41167
 Company LOW Petroleum
 Well Name & No. Kepp-9-1
 Location Field
 County Harlan State ky

Casing: Size 5 1/2" Type & Wt. 140# Set at ft.
 Formation: Perf. to
 Formation: Perf. to
 Formation: Perf. to
 Liner: Size ft. Type & Wt. ft. Top at ft. Bottom at ft.
 Cemented: Yes/No. Perforated from ft. to ft.
 Tubing: Size & Wt. ft. Slung at ft.
 Perforated from ft. to ft.
 Open Hole Size ft. T.D. ft. P.B. to ft.

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand
 Breakdown: 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. ft. Twin ft.
 Auxiliary Equipment 300/310
 Packer: Set at ft.
 Auxiliary Tools ft.
 Plugging or Sealing Materials: Type ft.

Company Representative Ed Treater Nathan W.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
9:00	-	5 1/2"		on location.
:				Hole - 3430.
:				Pipe @ 3476
:				Kepp @ 3413.
:				Controllogs - 1, 3, 5, 7, 9
:				Bestat - 4 =
:				
:				Circulate for 45 <u>45</u> min.
:				Pump 600 gal. Mud-Flush.
:				Plus Ret-Hole w/ 30 cts.
:				Mix 2000 lbs. ^{6%} 40% pop 2% oil 15% soft
:				3 1/4% CPP-C 3 1/4% de-coccur 5# 1st.
:				Gilsonite.
:				Displace w/ 58.2 bbls @ 1 1/4 lpm - 580 #
:				Plus loaded @ 1,100 # Released.
:				First Hole.
:				
:				
:				Watt 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

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

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# Gilsomite, cemented by Copeland (Ticket #241467), job complete @ 3:00 pm on 10.02.13.

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

Geologist: Jim Musgrove

7:00 A.M. Depth: 3430' 7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	09/25/13	09/26/13	09/27/13	09/28/13	09/29/13	09/30/13	10/01/13	10/02/13	Total
09/25/2013 @ 3:30 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	
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	9.9	8.6	9.2	8.6	9.2	9.2		
Vis (Funnel)	29	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	JZ HA20Q	JZ HA20Q	
Bit Size	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	
Bit Hours	19.00	19.00	20.00	12.25	4.00	4.25	1.50	1.50	61.00

Bit Cumulative Hours

Bit Cumulative Hours	2.75	19.00	20.00	12.25	4.00	4.25	1.50	0.00	63.75
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Weight on Bit (WOB)

Weight on Bit (WOB)	20,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	
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RPM

RPM	100	85	80	80	80	80	800	800	
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Pump Pressure

Pump Pressure	400	800	750	800	800	800	800	800	
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Drilling (Rotating) Hours

Drilling (Rotating) Hours	2.75	19.00	20.00	12.25	4.00	4.25	1.50	0.00	63.75
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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	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