



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1259928
OIL & GAS CONSERVATION DIVISION

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 # _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1259928

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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 <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

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Osage-Nemaha 1
Doc ID	1259928

Tops

Name	Top	Datum
Heebner	1497	(-134)
Douglas Sh.	1530	(-167)
Brown Lime	1837	(-474)
Lansing	1886	(-523)
Miss.	2440	(-1077)
Hunton	2720	(-1357)
Viola	2780	(-1417)
LTD	3009	(-1646)



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 46095

LOCATION El Dorado

FOREMAN Fuzz4

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-2-15	6285	Osage-Nemaha #1	35	215	3E	Marion	
CUSTOMER <u>Palomino Pet</u>		FLORENCE WOW		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		MAY 50 TO 80th		446	JOSH		
CITY		112 W S-I-W		681	TRACEY		
STATE		ZIP CODE					

JOB TYPE <u>Surface</u>	HOLE SIZE <u>12 1/4</u>	HOLE DEPTH <u>264'</u>	CASING SIZE & WEIGHT <u>8 5/8</u>
CASING DEPTH <u>264'</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>14.7</u>	SLURRY VOL <u>41.1</u>	WATER gal/sk <u>6.5</u>	CEMENT LEFT in CASING <u>20'</u>
DISPLACEMENT <u>15.5</u>	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting on Southwind #8, Rig up and circulate
Mix 170SKS CLASS A' 390cc 29gel w/1/2# Poly Flake per
SK. Displace 15.5 Barrels and shut in.

Cement did circulate in cellar

Thanks Fuzz4
+ crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401c	1	PUMP CHARGE	870.00	870.00
5406	40	MILEAGE	4.20	168.00
5407	8 TON	Tow mileage Delivery	1.41	451.20
1104s	170SKS	Class A	15.70	2669.00
1102	500#	Calcium Chloride	.78	390.00
1118B	350#	Gel	1.22	77.00
1107	100#	Poly. Flake	2.47	247.00
		subtotal		4872.20
		less discount		1014.90
		subtotal		3857.30
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737

AUTHORIZATION William L. [Signature]

TITLE

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

NET NUMBER 46096

LOCATION Ch Dorado

FOREMAN Tuzza

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-8-15		Osage-Nemaha #1	35	215	3E	McPherson	
CUSTOMER		FLOUENCE WREST		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		TOSKAT CREEK P.O. BOX 112 W. S.M.		760	CHRIS		
CITY		STATE		775	TERRY		
		ZIP CODE		692	MARK		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 3010' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 X TUBING _____ OTHER _____
 SLURRY WEIGHT 1.441 SLURRY VOL 31.3 WATER gal/sk 2.1 CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

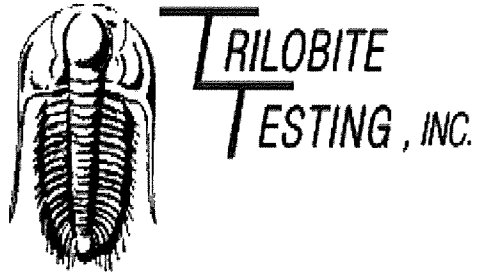
REMARKS: Safety meeting on Southwind #8. Rig up and circulate + lead hole
Plus as ordered

35 sks @ 2904' 12 sks 60/40 pos 40' good w/ 1/4"
35 sks @ 313' poly flake
25 sks Top of Surface
30 sks BH
Thanks Tuzza crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1085 ⁰⁰	1085 ⁰⁰
5406	40	MILEAGE	420	168 ⁰⁰
5407	5.4 hrs	Ten mile/day Delivery (min)	141	368 ⁰⁰
5502c	6 hrs	90 min water truck	90 ⁰⁰	N/C
1131	12 sks	60/40 pos	131 ⁵⁰	1647 ⁵⁰
118B	450#	Gel	122	99 ⁰⁰
1107	50#	Poly flake	242	123 ⁵⁰
1123	3000 gal	city water	173 ⁰⁰	N/C
		subtotal		3491 ⁰⁰
		disc		561 ⁰⁰
		subtotal		2930 ⁰⁰
		SALES TAX		
		ESTIMATED TOTAL		

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Sean Deenihan

Osage-Nemaha #1

35-21S-2E Marion,KS

Start Date: 2015.06.06 @ 12:43:55

End Date: 2015.06.06 @ 17:28:10

Job Ticket #: 59766 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.10 @ 13:48:26

Palomino Petroleum

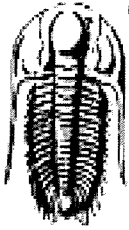
35-21S-2E Marion,KS

Osage-Nemaha #1

DST # 1

Hunton

2015.06.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
Newton, KS 67114

Osage-Nemaha #1

Job Ticket: 59766

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.06.06 @ 12:43:55

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:25

Time Test Ended: 17:28:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: **2540.00 ft (KB) To 2687.00 ft (KB) (TVD)**

Reference Elevations: 1363.00 ft (KB)

Total Depth: 2687.00 ft (KB) (TVD)

1354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 18.72 psig @ 2541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.06 End Date: 2015.06.06

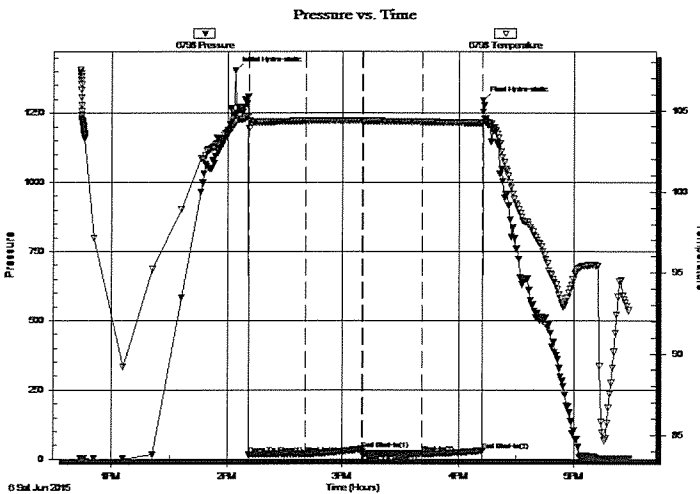
Last Calib.: 2015.06.06

Start Time: 12:43:56 End Time: 17:28:10

Time On Btm: 2015.06.06 @ 14:04:10

Time Off Btm: 2015.06.06 @ 16:12:40

TEST COMMENT: IF: Weak Surface Blow
IS: No Blow Back
FF: Weak Surface Blow
FS: No Blow Back



PRESSURE SUMMARY

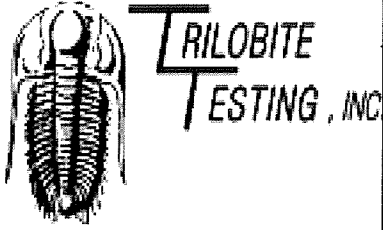
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1404.41	104.28	Initial Hydro-static
8	16.33	103.89	Open To Flow (1)
37	17.07	104.35	Shut-In(1)
66	35.47	104.36	End Shut-In(1)
67	17.03	104.35	Open To Flow (2)
97	18.72	104.29	Shut-In(2)
129	30.33	104.22	End Shut-In(2)
129	1296.68	104.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

Gas Rates

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



DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St
New ton, KS 67114

ATTN: Sean Deenihan

35-21S-2E Marion,KS

Osage-Nemaha #1

Job Ticket: 59766

DST#: 1

Test Start: 2015.06.06 @ 12:43:55

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:25

Time Test Ended: 17:28:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 2540.00 ft (KB) To 2687.00 ft (KB) (TVD)

Total Depth: 2687.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1363.00 ft (KB)

1354.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 2541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.06 End Date: 2015.06.06

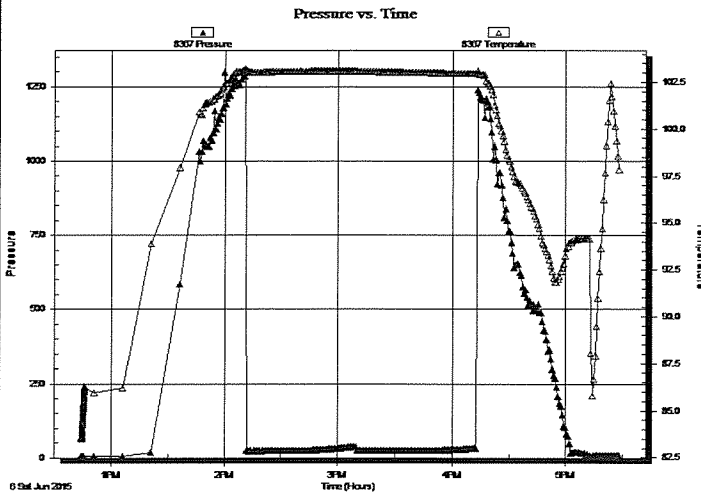
Last Callb.: 2015.06.06

Start Time: 12:43:56 End Time: 17:28:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Surface Blow
ISI: No Blow Back
FF: Weak Surface Blow
FS: No Blow Back



PRESSURE SUMMARY

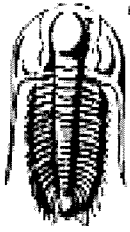
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
New ton, KS 67114

Osage-Nemaha #1

Job Ticket: 59766

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.06.06 @ 12:43:55

Tool Information

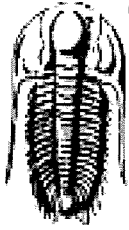
Drill Pipe:	Length: 2528.00 ft	Diameter: 3.80 inches	Volume: 35.46 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 35.46 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2540.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	147.00 ft			
Tool Length:	166.00 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			2526.00	
Hydraulic tool	5.00			2531.00	
Packer	5.00			2536.00	19.00 Bottom Of Top Packer
Packer	4.00			2540.00	
Stubb	1.00			2541.00	
Recorder	0.00	6798	Inside	2541.00	
Recorder	0.00	8367	Outside	2541.00	
Perforations	4.00			2545.00	
Change Over Sub	1.00			2546.00	
Drill Pipe	127.00			2673.00	
Change Over Sub	1.00			2674.00	
Perforations	10.00			2684.00	
Bullnose	3.00			2687.00	147.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

35-21S-2E Marion, KS

4924 SE 84th St
New ton, KS 67114

Osage-Nemaha #1

Job Ticket: 59766

DST#: 1

ATTN: Sean Deenihan

Test Start: 2015.06.06 @ 12:43:55

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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

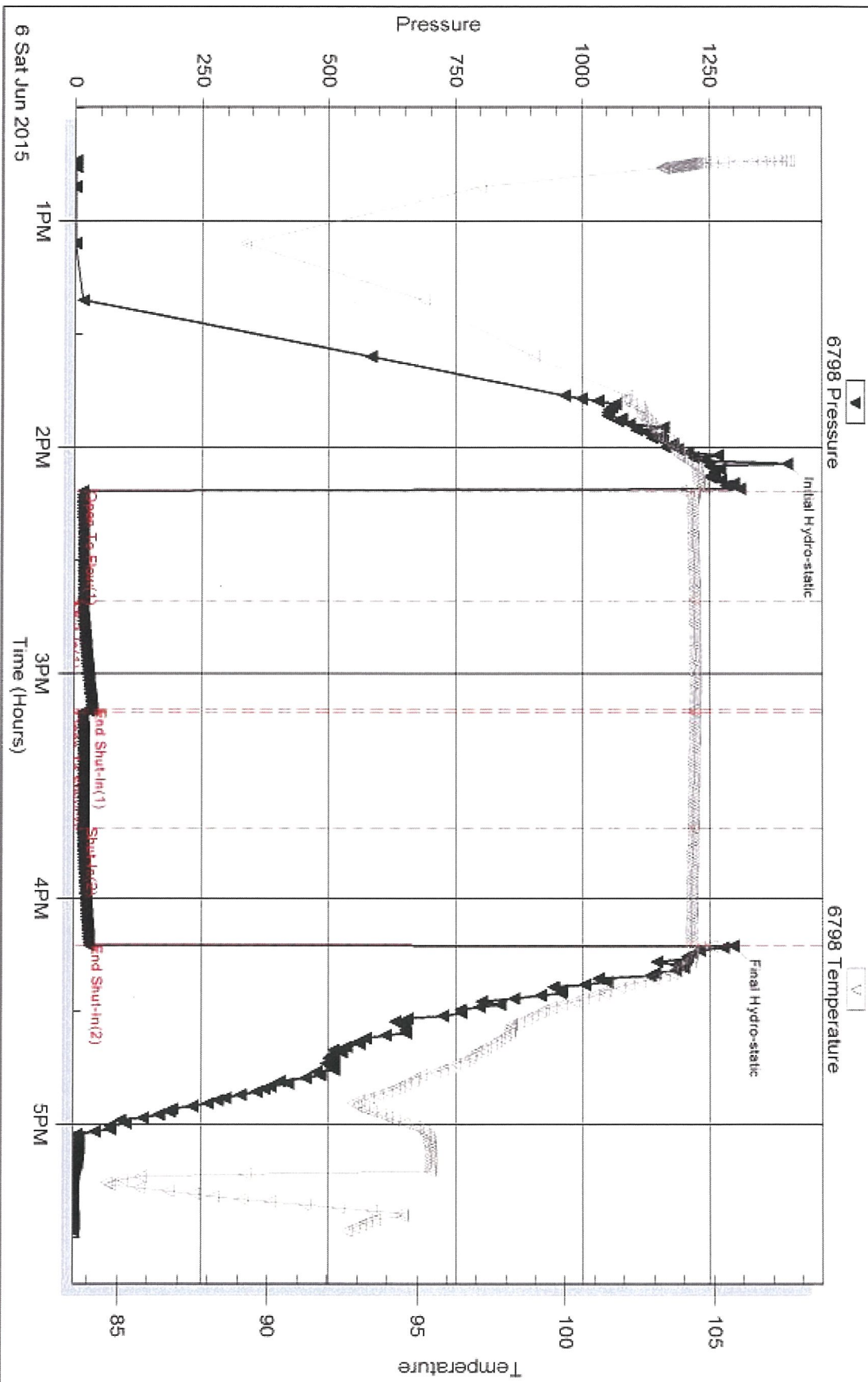
Inside

Palomino Petroleum

Osage-Nemaha #1

DST Test Number: 1

Pressure vs. Time



Trioble Testing, Inc

Ref. No: 59766

Printed: 2015.06.10 @ 13:48:28

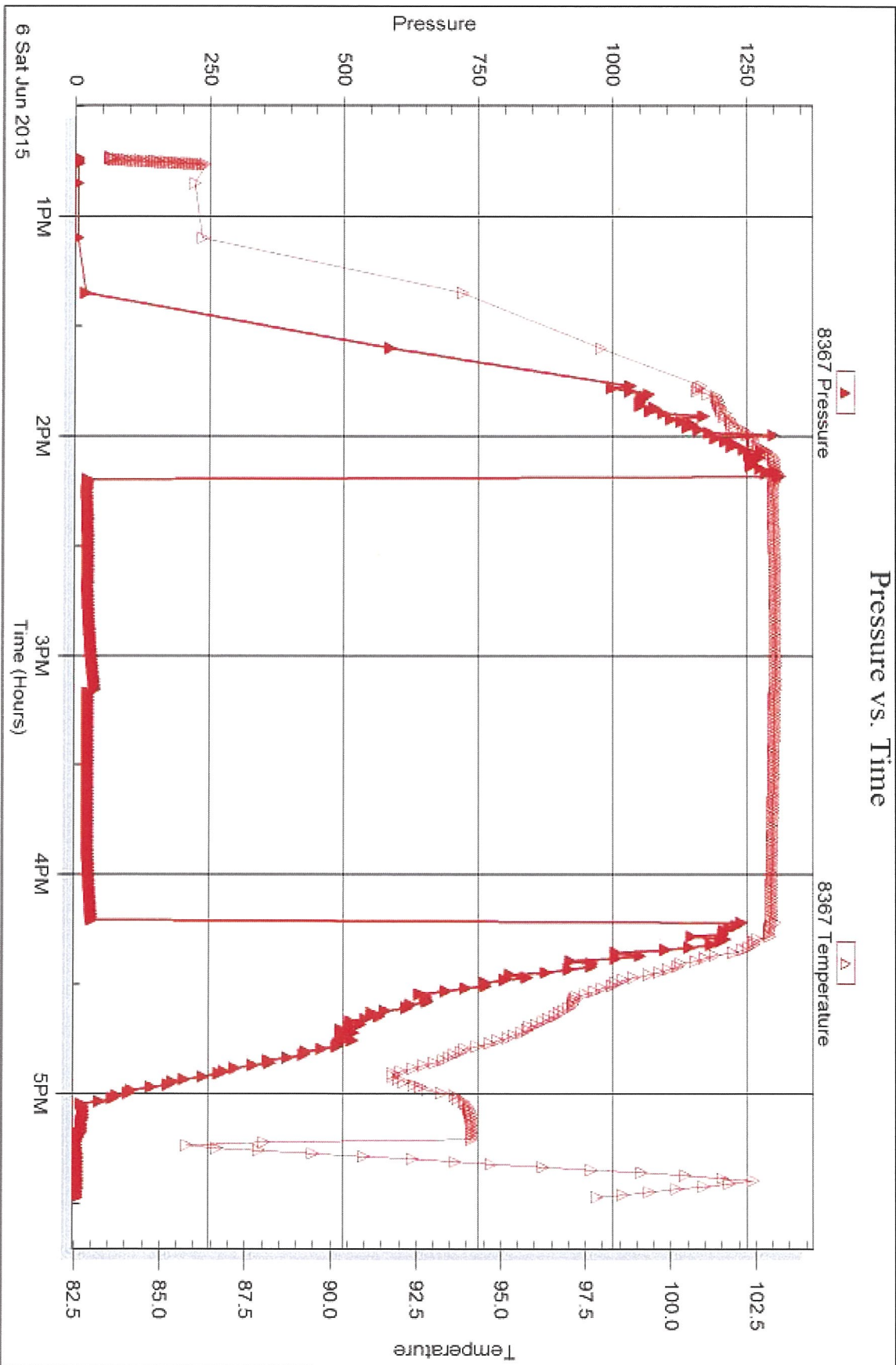
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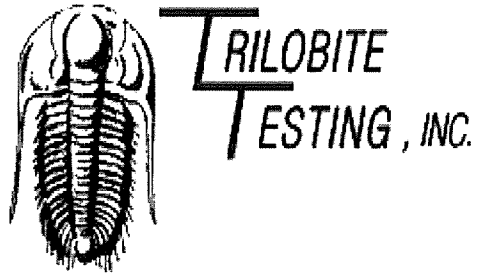
Outside

Palomino Petroleum

Osage-Namaha #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Sean Deenihan

Osage-Nemaha #1

35-21S-2E Marion,KS

Start Date: 2015.06.07 @ 03:08:42

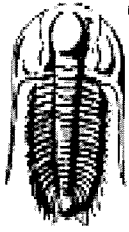
End Date: 2015.06.07 @ 08:42:42

Job Ticket #: 59767 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.10 @ 13:48:06

Palomino Petroleum
35-21S-2E Marion,KS
Osage-Nemaha #1
DST # 2
Hunton
2015.06.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
Newton, KS 67114

Osage-Nemaha #1

Job Ticket: 59767

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 03:08:42

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:31:27

Time Test Ended: 08:42:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: **2540.00 ft (KB) To 2755.00 ft (KB) (TVD)**

Reference Elevations: 1363.00 ft (KB)

Total Depth: 2755.00 ft (KB) (TVD)

1354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 989.49 psig @ 2541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07

End Date:

2015.06.07

Last Calib.: 2015.06.07

Start Time: 03:08:43

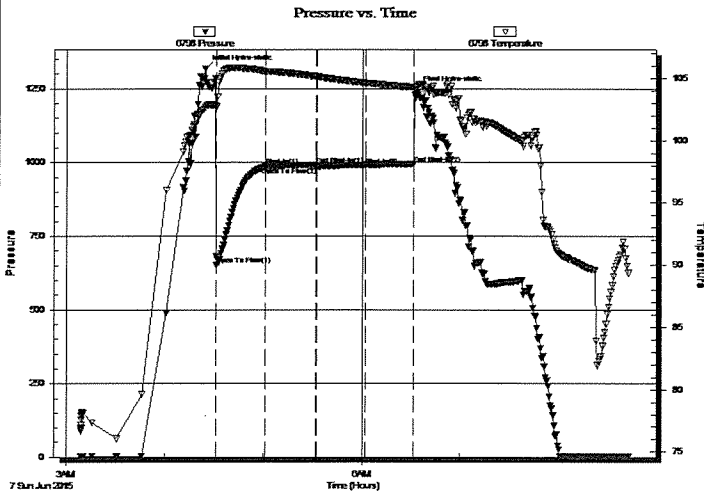
End Time:

08:42:42

Time On Btm: 2015.06.07 @ 04:24:27

Time Off Btm: 2015.06.07 @ 06:33:12

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
IS: No Blow Back
FF: Weak Surface Blow , Dead @ 5 minutes
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1318.46	102.68	Initial Hydro-static
7	653.01	102.78	Open To Flow (1)
37	987.25	105.55	Shut-In(1)
68	991.97	105.16	End Shut-In(1)
68	986.11	105.15	Open To Flow (2)
98	989.49	104.64	Shut-In(2)
127	994.20	104.27	End Shut-In(2)
129	1246.94	104.35	Final Hydro-static

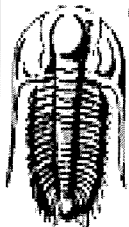
Recovery

Length (ft)	Description	Volume (bbl)
1519.00	Water	21.31
126.00	MCW 10%M 90%W	1.77
567.00	WCM 30%W 70%M	7.95

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St
Newton, KS 67114

ATTN: Sean Deenihan

35-21S-2E Marion,KS

Osage-Nemaha #1

Job Ticket: 59767

DST#: 2

Test Start: 2015.06.07 @ 03:08:42

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:31:27

Time Test Ended: 08:42:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: **2540.00 ft (KB) To 2755.00 ft (KB) (TVD)**

Reference Elevations: 1363.00 ft (KB)

Total Depth: 2755.00 ft (KB) (TVD)

1354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 2541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07 End Date: 2015.06.07

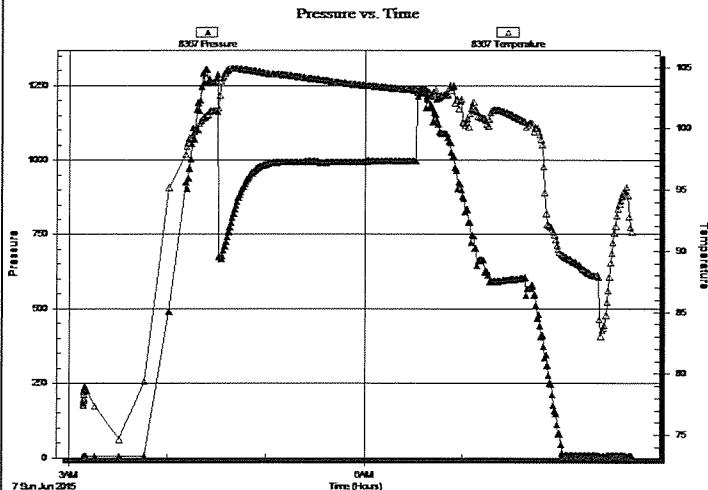
Last Calib.: 2015.06.07

Start Time: 03:08:43 End Time: 08:42:42

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
IS: No Blow Back
FF: Weak Surface Blow , Dead @ 5 minutes
FS: No Blow Back



PRESSURE SUMMARY

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

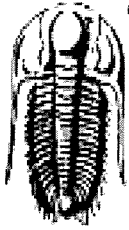
Recovery

Length (ft)	Description	Volume (bbl)
1519.00	Water	21.31
126.00	MCW 10%M 90%WV	1.77
567.00	WCM 30%W 70%M	7.95

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
New ton, KS 67114

Osage-Nemaha #1

Job Ticket: 59767

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 03:08:42

Tool Information

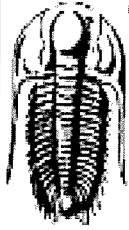
Drill Pipe:	Length: 2527.00 ft	Diameter: 3.80 inches	Volume: 35.45 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 35.45 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2540.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	215.00 ft			
Tool Length:	234.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Dropped Bar

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2526.00	
Hydraulic tool	5.00			2531.00	
Packer	5.00			2536.00	19.00 Bottom Of Top Packer
Packer	4.00			2540.00	
Stubb	1.00			2541.00	
Recorder	0.00	6798	Inside	2541.00	
Recorder	0.00	8367	Outside	2541.00	
Perforations	4.00			2545.00	
Change Over Sub	1.00			2546.00	
Drill Pipe	190.00			2736.00	
Change Over Sub	1.00			2737.00	
Perforations	15.00			2752.00	
Bullnose	3.00			2755.00	215.00 Bottom Packers & Anchor

Total Tool Length: 234.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
New ton, KS 67114

Osage-Nemaha #1

Job Ticket: 59767

DST#: 2

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 03:08:42

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: 27000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1519.00	Water	21.308
126.00	MCW 10%M 90%W	1.767
567.00	WCM 30%W 70%M	7.954

Total Length: 2212.00 ft Total Volume: 31.029 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .22 @ 81 degrees

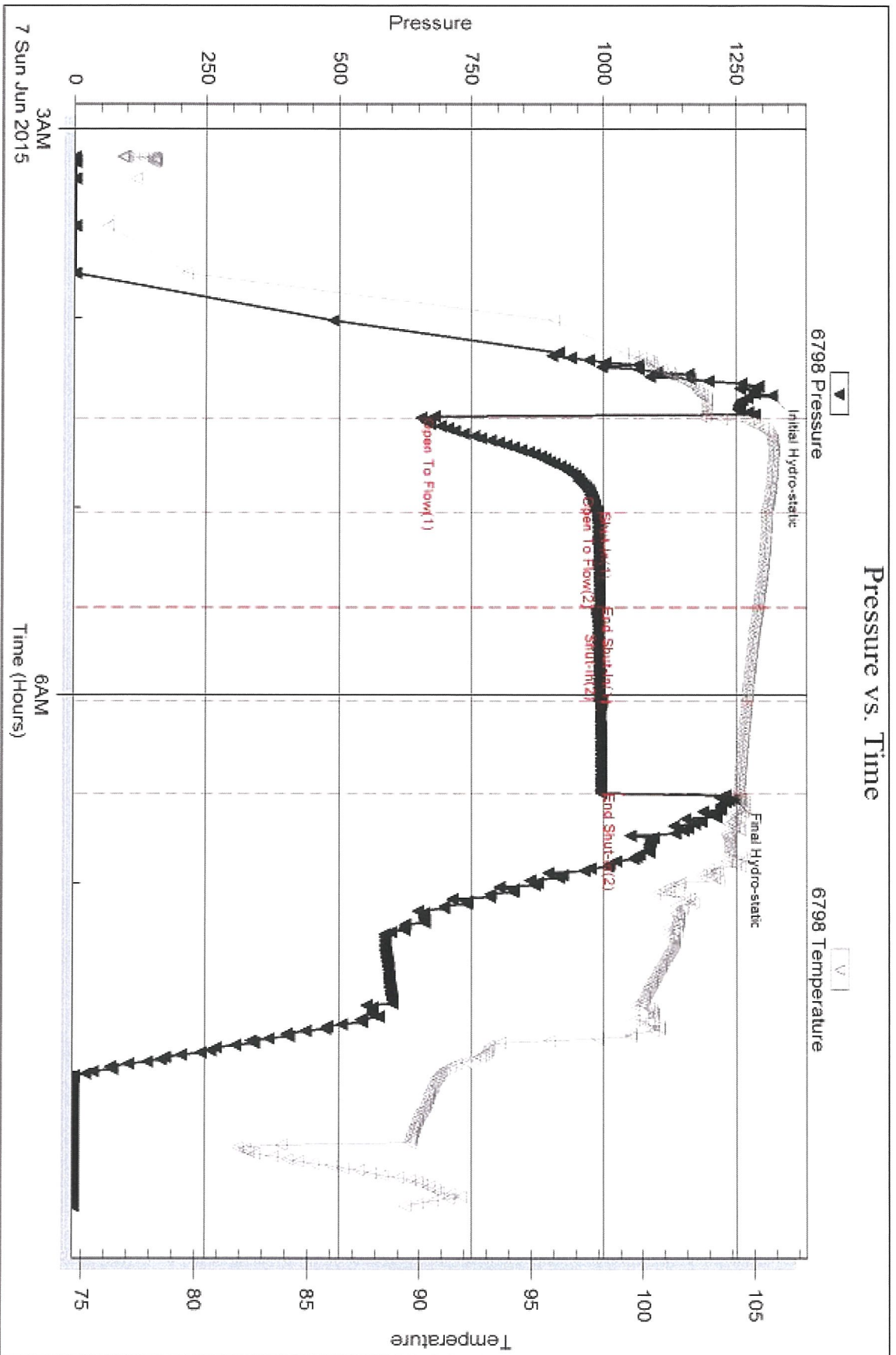
Serial #: 6798

Inside

Palomino Petroleum

Osage-Nemaha #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 59767

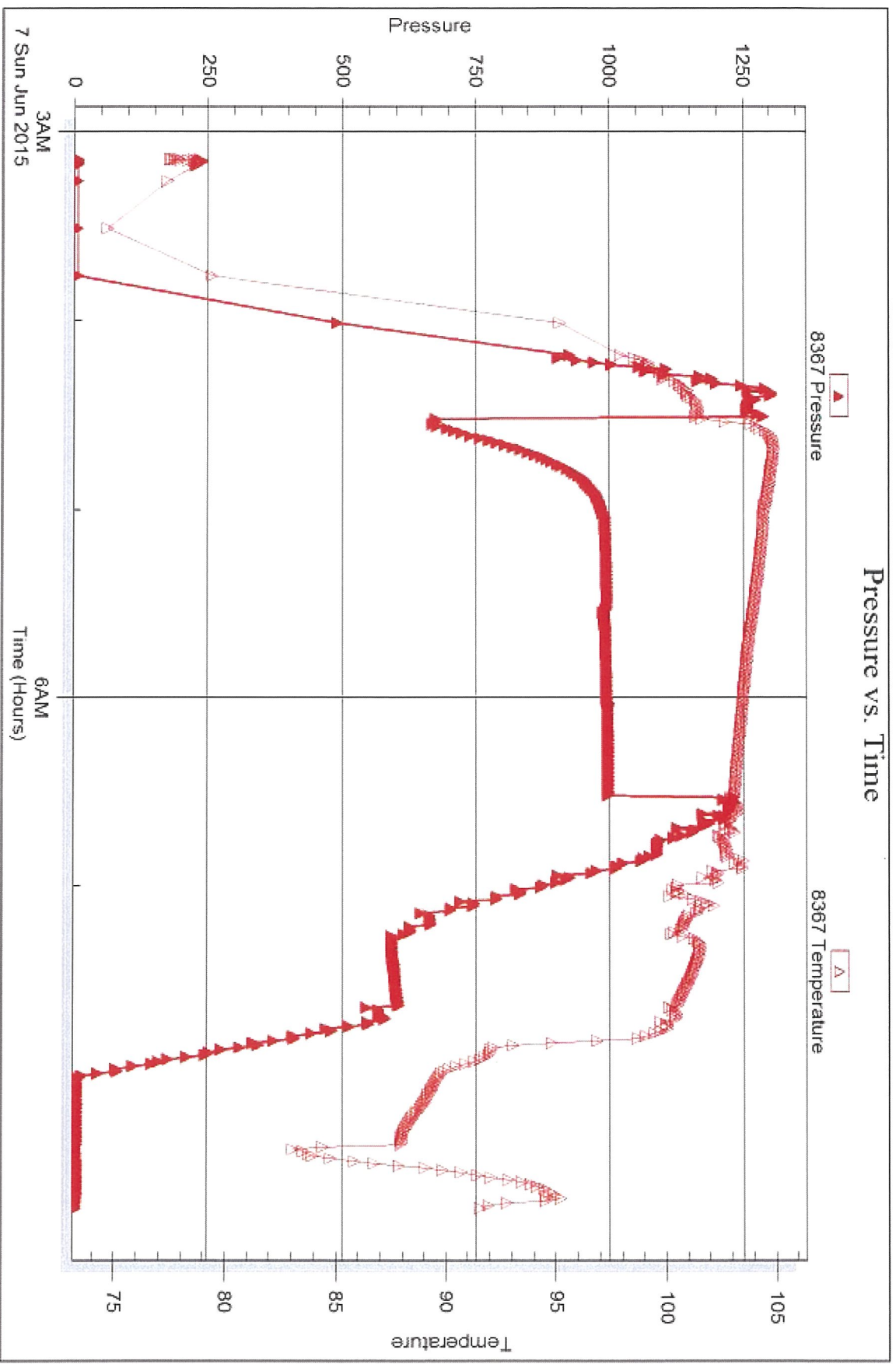
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Serial #: 8367

Outside Palomino Petroleum

Osage-Nemaha #1

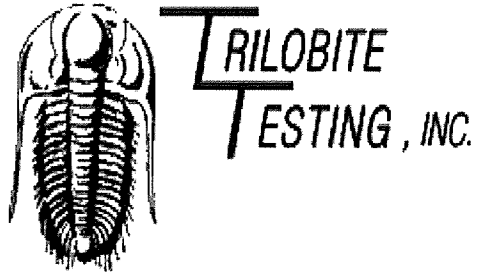
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 59767

Printed: 2015.06.10 @ 13:48:07



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Sean Deenihan

Osage-Nemaha #1

35-21S-2E Marion,KS

Start Date: 2015.06.07 @ 22:49:59

End Date: 2015.06.08 @ 04:42:44

Job Ticket #: 59768 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.10 @ 13:41:33

Palomino Petroleum

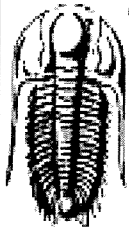
35-21S-2E Marion,KS

Osage-Nemaha #1

DST # 3

Simpson

2015.06.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
Newton, KS 67114

Osage-Nemaha #1

Job Ticket: 59768

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 22:49:59

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:10:59

Time Test Ended: 04:42:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: **2847.00 ft (KB) To 2898.00 ft (KB) (TVD)**

Reference Elevations: 1363.00 ft (KB)

Total Depth: 2898.00 ft (KB) (TVD)

1354.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 501.30 psig @ 2848.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07

End Date: 2015.06.08

Last Calib.: 2015.06.08

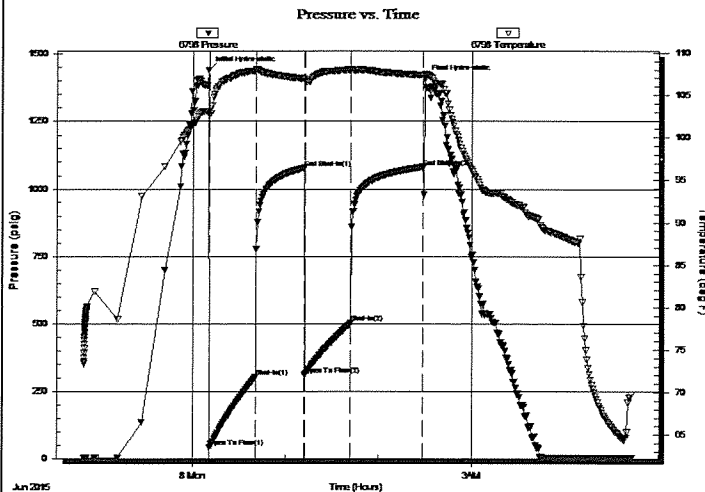
Start Time: 22:50:00

End Time: 04:42:44

Time On Btm: 2015.06.08 @ 00:10:14

Time Off Btm: 2015.06.08 @ 02:29:44

TEST COMMENT: IF: Weak Blow , BOB in 10 minutes
IS: No Blow Back
FF: Weak Blow , Built to 7",Died Off to 3" by 30 minutes
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1441.76	103.06	Initial Hydro-static
1	43.11	102.61	Open To Flow (1)
31	302.28	107.88	Shut-In(1)
62	1078.72	106.96	End Shut-In(1)
62	309.88	106.69	Open To Flow (2)
92	501.30	108.01	Shut-In(2)
139	1082.10	107.39	End Shut-In(2)
140	1406.84	107.55	Final Hydro-static

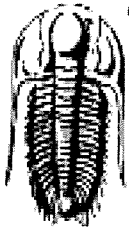
Recovery

Length (ft)	Description	Volume (bbl)
882.00	Water	12.37
262.00	MCW 30%M 70%W	3.68

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St
Newton, KS 67114

ATTN: Sean Deenihan

35-21S-2E Marion,KS

Osage-Nemaha #1

Job Ticket: 59768

DST#: 3

Test Start: 2015.06.07 @ 22:49:59

GENERAL INFORMATION:

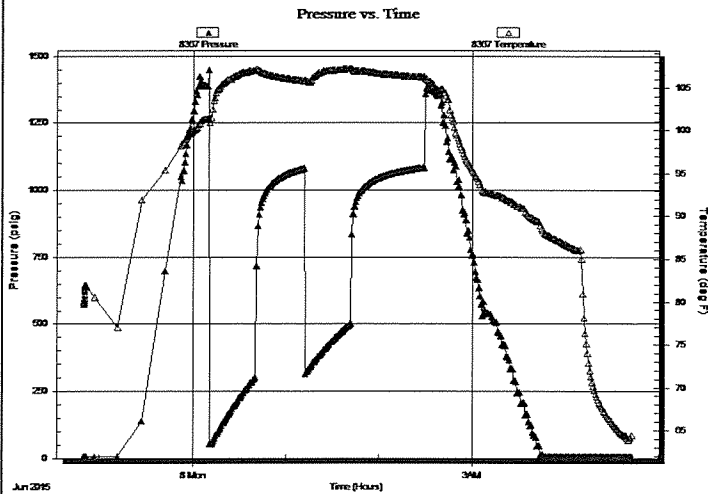
Formation: Simpson	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason
Time Tool Opened: 00:10:59	Unit No: 74
Time Test Ended: 04:42:44	Reference Elevations: 1363.00 ft (KB)
Interval: 2847.00 ft (KB) To 2898.00 ft (KB) (TVD)	1354.00 ft (CF)
Total Depth: 2898.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8367

Outside

Press@RunDepth: psig @ 2848.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2015.06.07	End Date: 2015.06.08
Start Time: 22:50:00	End Time: 04:42:44
Last Calib.: 2015.06.08	Time On Btm:
Time Off Btm:	

TEST COMMENT: IF: Weak Blow , BOB in 10 minutes
 IS: No Blow Back
 FF: Weak Blow , Built to 7",Died Off to 3" by 30 minutes
 FS: No Blow Back



PRESSURE SUMMARY

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

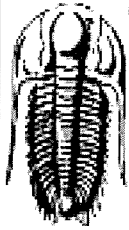
Recovery

Length (ft)	Description	Volume (bbl)
882.00	Water	12.37
262.00	M CW 30% M 70% W	3.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
Newton, KS 67114

Osage-Nemaha #1

Job Ticket: 59768

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 22:49:59

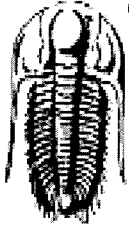
Tool Information

Drill Pipe:	Length: 2845.00 ft	Diameter: 3.80 inches	Volume: 39.91 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: 40000.00 lb
			<u>Total Volume: 39.91 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2847.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	70.00 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			2833.00	
Hydraulic tool	5.00			2838.00	
Packer	5.00			2843.00	19.00 Bottom Of Top Packer
Packer	4.00			2847.00	
Stubb	1.00			2848.00	
Recorder	0.00	6798	Inside	2848.00	
Recorder	0.00	8367	Outside	2848.00	
Perforations	4.00			2852.00	
Change Over Sub	1.00			2853.00	
Drill Pipe	31.00			2884.00	
Change Over Sub	1.00			2885.00	
Perforations	10.00			2895.00	
Bullnose	3.00			2898.00	51.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

35-21S-2E Marion,KS

4924 SE 84th St
Newton, KS 67114

Osage-Nemaha #1

Job Ticket: 59768

DST#: 3

ATTN: Sean Deenihan

Test Start: 2015.06.07 @ 22:49:59

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: 8500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
882.00	Water	12.372
262.00	MCW 30%M 70%W	3.675

Total Length: 1144.00 ft Total Volume: 16.047 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .6 @ 83 degrees

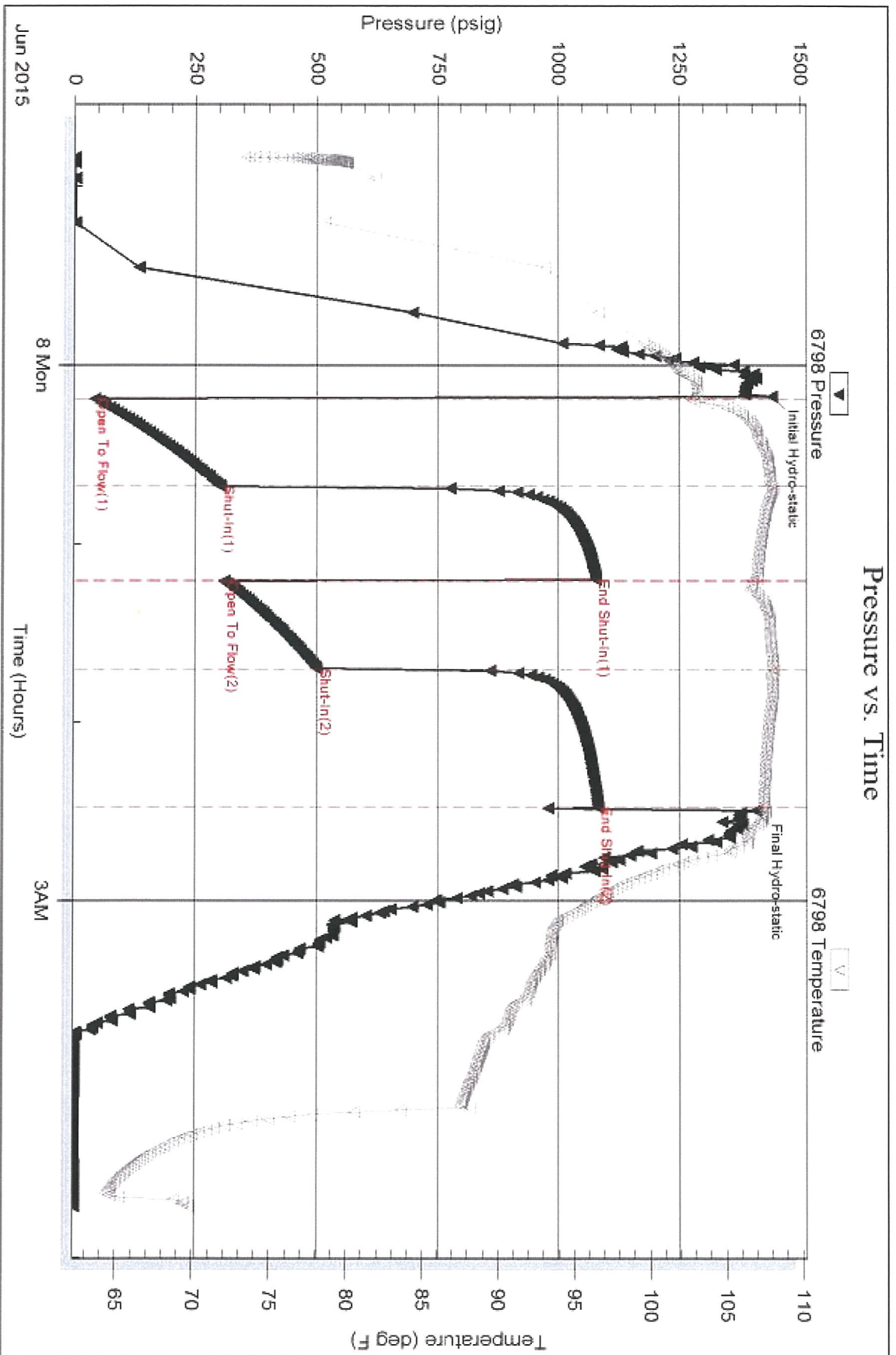
Serial #: 6798

Inside

Palomino Petroleum

Osage-Nemaha #1

DST Test Number: 3



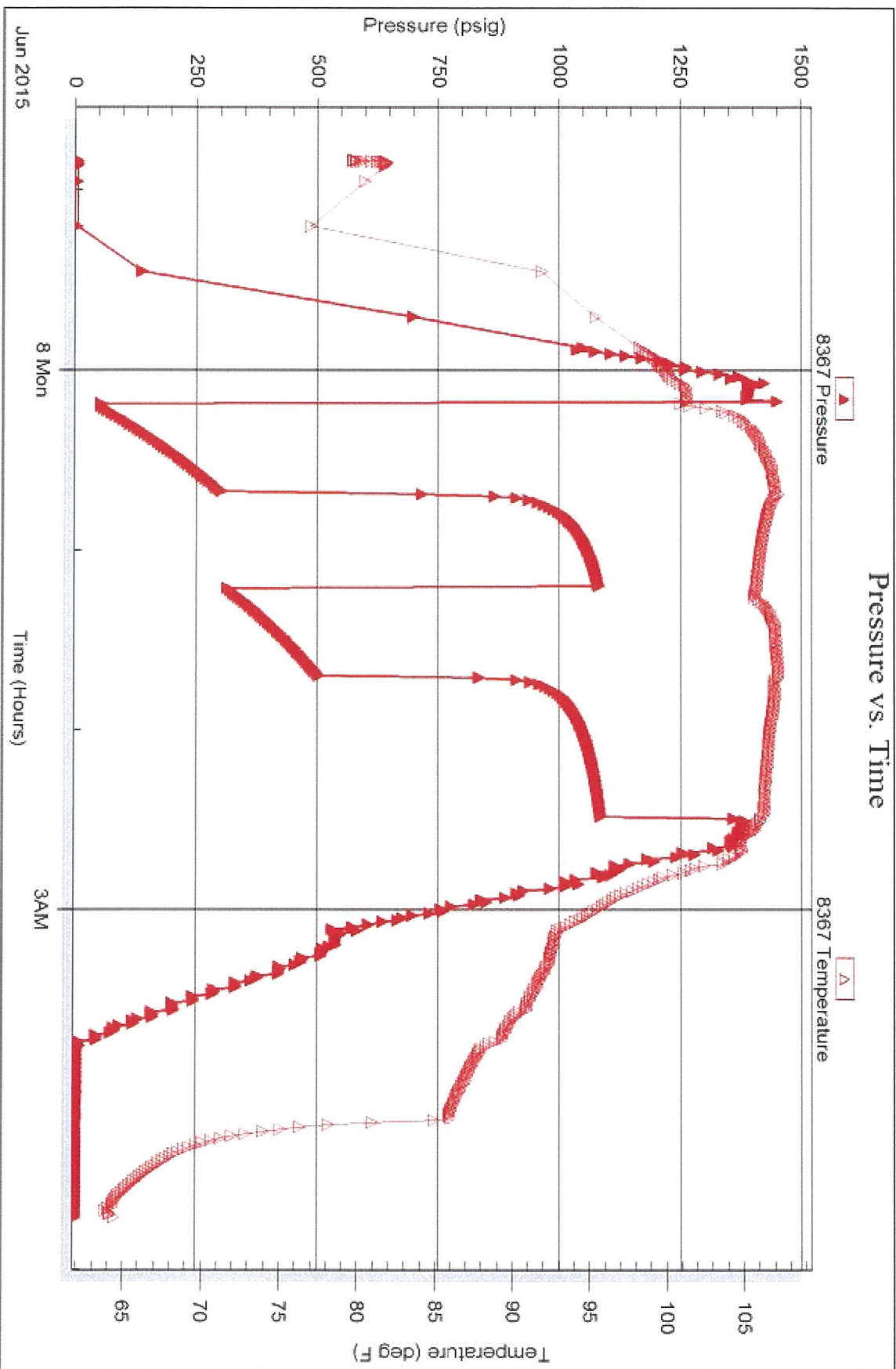
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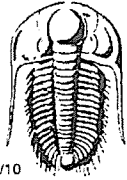
Outside

Palomino Petroleum

Osage-Nemaha #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59786

Well Name & No. Osage - Nemaha 1 Test No. 1 Date 06/06/15
 Company Palomino Petroleum Elevation 1363 KB 1354 GL
 Address 4924 SE 24th St Newton, KS 67114
 Co. Rep / Geo. Sean Deenihan Rig Southwind 8
 Location: Sec. 35 Twp. 21S Rge. 2E Co. Marion State KS

Interval Tested 2540 - 2687 Zone Tested HUNTON
 Anchor Length 147 Drill Pipe Run 2528 Mud Wt. 9.6
 Top Packer Depth 2535 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 2540 Wt. Pipe Run 0 WL 9.0
 Total Depth 2687 Chlorides 1900 ppm System LCM 3

Blow Description IF: weak surface Blow
ISI: No Blow Back
FF: weak surface Blow
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>				

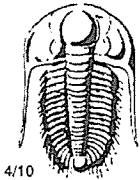
Rec Total 2 BHT 104 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1404 Test 1050 T-On Location 11:30
 (B) First Initial Flow 16 Jars _____ T-Started 12:43
 (C) First Final Flow 17 Safety Joint _____ T-Open 14:11
 (D) Initial Shut-In 35 Circ Sub _____ T-Pulled 16:12
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 17:28
 (F) Second Final Flow 19 Mileage 230 230 Comments motor
 (G) Final Shut-In 30 Sampler _____
 (H) Final Hydrostatic 1297 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 0 Extra Copies _____
 Total 1280 Day Standby _____
 MP/DST Disc't _____
 Sub Total 1280 Accessibility _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged 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, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59167

Well Name & No. Osage - Nemaha 1 Test No. 2 Date 06/07/15
 Company Palomino Petroleum Elevation 1363 KB 1354 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Pat Deenihan Rig Southwind 8
 Location: Sec. 35 Twp. 21S Rge. 2E Co. Marion State KS

Interval Tested 2540 - 2755 Zone Tested Hunton
 Anchor Length 215 Drill Pipe Run 2527 Mud Wt. 9.6
 Top Packer Depth 2535 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 2540 Wt. Pipe Run 0 WL 9.0
 Total Depth 2755 Chlorides 1900 ppm System LCM 3#

Blow Description IF: strong Blow, BOB in 30 seconds
ISI: NO Blow Back
FF: weak surface Blow, Dead @ 5 minutes
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>567</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
<u>126</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
<u>1519</u>	<u>Water</u>				

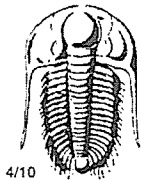
Rec Total 2212 BHT 104 Gravity N/C API RW .22 @ 81 °F Chlorides 27000 ppm

(A) Initial Hydrostatic 1318 Test 1050 T-On Location 02:45
 (B) First Initial Flow 653 Jars _____ T-Started 03:08
 (C) First Final Flow 987 Safety Joint _____ T-Open 04:31
 (D) Initial Shut-In 992 Circ Sub _____ T-Pulled 06:31
 (E) Second Initial Flow 986 Hourly Standby _____ T-Out 08:42
 (F) Second Final Flow 989 Mileage 230 230 Comments Dropped Bar
 (G) Final Shut-In 994 Sampler _____ NOTE!
 (H) Final Hydrostatic 1247 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1280
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1280

Approved By Patrick Deenihan Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged 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, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59768

Well Name & No. Osage - Memaha 1 Test No. 3 Date 06/07/15
 Company Palomino Petroleum Elevation 1363 KB 1354 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Pat Deenihan Rig Southwind 8
 Location: Sec. 35 Twp. 21S Rge. 2E Co. Marion State KS

Interval Tested 2847 - 2898 Zone Tested Simpson
 Anchor Length 51 Drill Pipe Run 2845 Mud Wt. 9.5
 Top Packer Depth 2842 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 2847 Wt. Pipe Run 0 WL 9.2
 Total Depth 2898 Chlorides 2100 ppm System LCM 3

Blow Description IF: weak Blow, BOB in 10 minutes
ISI: NO Blow Back
FF: weak Blow, Built to 7 inches, Died off to 3 inches by 30 minutes
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>262</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>882</u>	<u>Water</u>				

Rec Total 1144 BHT 107 Gravity N/C API RW 6 @ 83 °F Chlorides 2500 ppm

(A) Initial Hydrostatic 1442 Test 1050 T-On Location 21:30
 (B) First Initial Flow 43 ~~302~~ Jars _____ T-Started 22:49
 (C) First Final Flow 302 ~~1079~~ Safety Joint _____ T-Open 00:10
 (D) Initial Shut-In 1079 Circ Sub _____ T-Pulled 02:28
 (E) Second Initial Flow 310 Hourly Standby _____ T-Out 04:42
 (F) Second Final Flow 501 Mileage 230 230 Comments NOTE 1
 (G) Final Shut-In 1082 Sampler _____
 (H) Final Hydrostatic 1407 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1280
 Sub Total 1280 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged 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, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.