



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1071495  
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: \_\_\_\_\_

1071495

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	Smith #1-5 (NW)
Doc ID	1071495

All Electric Logs Run

MEL
DIL
BHCS
CNL/CDL

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	Smith #1-5 (NW)
Doc ID	1071495

Tops

Name	Top	Datum
LANSING	4236	-1404
PAWNEE	4822	-1990
CHEROKEE	4870	-2038
MORROW SH	5070	-2238
LWR MRW SS	5101	-2269
MISS ST GEN	5179	-2347
MISS ST LOU	5286	-2454
SALEM	5475	-2643

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 12, 2012

CYNDE WOLF  
Falcon Exploration, Inc.  
125 N MARKET STE 1252  
WICHITA, KS 67202-1719

Re: ACO1  
API 15-069-20348-00-00  
Smith #1-5 (NW)  
NW/4 Sec.05-28S-30W  
Gray County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
CYNDE WOLF



# Cement Report

Customer <i>Falcon Exploration</i>	Lease No.	Date <i>10-7-11</i>
Lease <i>Smith</i>	Well # <i>15</i>	Service Receipt <i>2144</i>
Casing <i>5 1/2 15#</i>	Depth <i>5310</i>	County <i>Gray</i>
Job Type <i>242 Long Strg</i>	Formation	State <i>KS</i>
		Legal Description <i>5-28-30</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>5 1/2 15.5#</i>	Tubing Size	Shots/Ft		Lead <i>505K-60-40</i>
Depth <i>5314</i>	Depth <i>53 18'</i>	From	To	<i>Part + Mouse POZ</i>
Volume <i>126 bbls</i>	Volume	From	To	<i>1.51FF3 SK 13.5#</i>
Max Press <i>2000</i>	Max Press	From	To	Tail in <i>175SK AA2</i>
Well Connection <i>5/2</i>	Annulus Vol.	From	To	<i>1.51FF2 SK</i>
Plug Depth <i>5295</i>	Packer Depth	From	To	<i>6.646L SK 14.8#15</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1030</i>					<i>Arrive On Location</i>
<i>1130</i>					<i>Safety Meeting - Rig Up</i>
<i>300</i>					<i>Rig Running Casing</i>
<i>700</i>					<i>Circulate w/ Rig</i>
<i>740</i>					<i>Hook up To BES</i>
<i>750</i>	<i>2000</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>
<i>800</i>	<i>300</i>		<i>5</i>	<i>2.0</i>	<i>Pump Waste Spacer</i>
<i>805</i>	<i>250</i>		<i>12</i>	<i>3.5</i>	<i>Pump Super Flush</i>
<i>810</i>	<i>200</i>		<i>5</i>	<i>4.0</i>	<i>Pump Waste Spacer</i>
<i>815</i>	<i>100</i>		<i>47</i>	<i>4.5</i>	<i>Pump cement @ 14.8 #/s</i>
<i>830</i>					<i>Wash pump - Drop Plug</i>
<i>835</i>	<i>600</i>		<i>116</i>	<i>6.7</i>	<i>Displace</i>
<i>855</i>	<i>650</i>		<i>10</i>	<i>2.5</i>	<i>Slow Down - Displace</i>
<i>900</i>	<i>1300</i>		<i>.1</i>	<i>.1</i>	<i>Land Plug - Float Hold</i>
					<i>Plug Part + Mouse Holes</i>
					<i>Centralizers, 2, 3, 8, 22</i>
					<i>39, 53</i>
					<i>Job Complete</i>
					<i>THANKS FOR USING BASIC ENERGY SERVICES</i>

Service Units	<i>15820</i>	<i>27442</i>	<i>14354-19578</i>		
Driver Names	<i>E. Chavez</i>	<i>Adan</i>	<i>Suan</i>		

Leon Customer Representative     
 Jay Banta Station Manager     
 Samuel Chavez Cementer



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.

5/28/30

125 N Market street ste. 1252 Wichita Ks. 67202

**Smith #1-5 nw**

ATTN: Keith R.

Job Ticket: 42291

**DST#: 1**

Test Start: 2011.10.02 @ 10:45:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:00

Time Test Ended: 10:40:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 33

**Interval: 5066.00 ft (KB) To 5140.00 ft (KB) (TVD)**

Reference Elevations: 2831.00 ft (KB)

Total Depth: 5140.00 ft (KB) (TVD)

2819.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 6772 Outside**

Press @ RunDepth: 1387.29 psig @ 5069.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.02

End Date:

2011.10.03

Last Calib.: 2011.10.03

Start Time: 10:45:05

End Time:

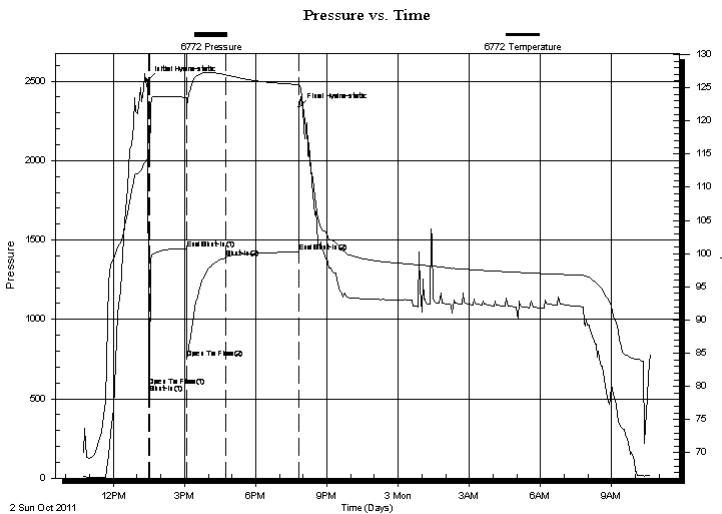
10:40:44

Time On Btm: 2011.10.02 @ 13:26:15

Time Off Btm: 2011.10.02 @ 19:50:15

**TEST COMMENT:** IF- Strong blow BOB, ASAO.  
 IS- No blow back.  
 FF- Strong blow BOB, ASAO, GTS, 1 hour. TSTM.  
 FS- Strong blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2504.81	114.22	Initial Hydro-static
2	577.75	113.97	Open To Flow (1)
7	594.04	114.15	Shut-In(1)
99	1445.22	123.53	End Shut-In(1)
100	755.99	122.24	Open To Flow (2)
199	1387.29	126.91	Shut-In(2)
383	1424.55	125.50	End Shut-In(2)
384	2334.32	125.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1008.00	trace water and mud 20%gas80%oil	11.39
1932.00	5%gas5%mud90%water trace oil <1%	27.10

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Falcon Exploration Inc.

**5/28/30**

125 N Market street ste. 1252 Wichita Ks. 67202

**Smith #1-5 nw**

Job Ticket: 42291

**DST#: 1**

ATTN: Keith R.

Test Start: 2011.10.02 @ 10:45:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1650.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1008.00	trace water and mud 20%gas80%oil	11.389
1932.00	5%gas5%mud90%water trace oil <1%	27.101

Total Length: 2940.00 ft

Total Volume: 38.490 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

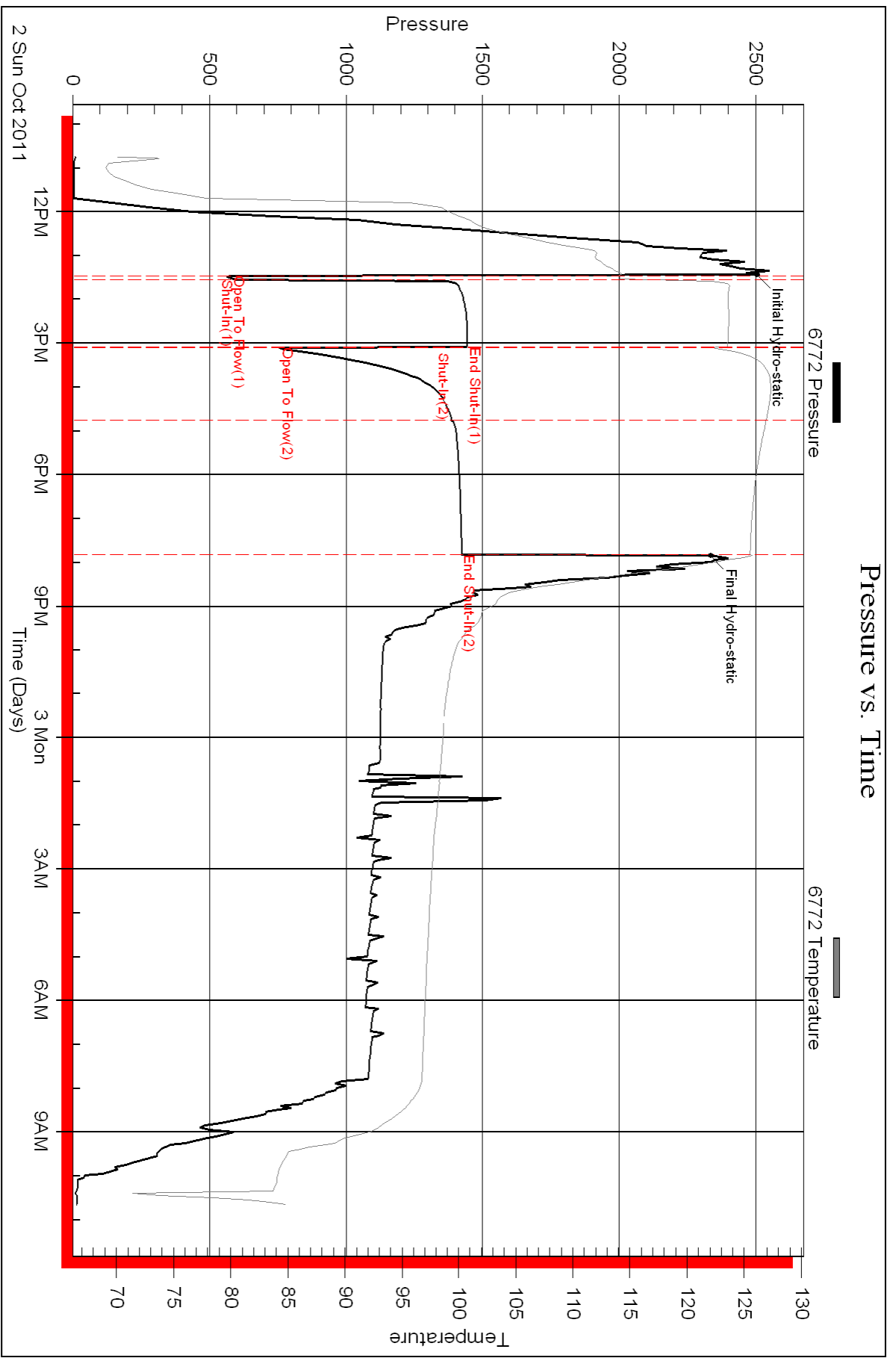
Recovery Comments:

Serial #: 6772

Outside Falcon Exploration Inc.

Smith #1-5 nw

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 42291

Printed: 2011.10.04 @ 13:21:25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.

5/28/30

125 N Market street ste. 1252 Wichita Ks. 67202

**Smith #1-5 nw**

Job Ticket: 42292

**DST#: 2**

ATTN: Keith R.

Test Start: 2011.10.03 @ 21:45:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:13:50

Time Test Ended: 12:27:10

Test Type: Conventional Straddle (Initial)

Tester: Harley Davidson

Unit No: 33

**Interval: 5064.00 ft (KB) To 5112.00 ft (KB) (TVD)**

Reference Elevations: 2831.00 ft (KB)

Total Depth: 5170.00 ft (KB) (TVD)

2819.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

## Serial #: 8674

Press @ Run Depth: 1216.97 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.03 End Date: 2011.10.04

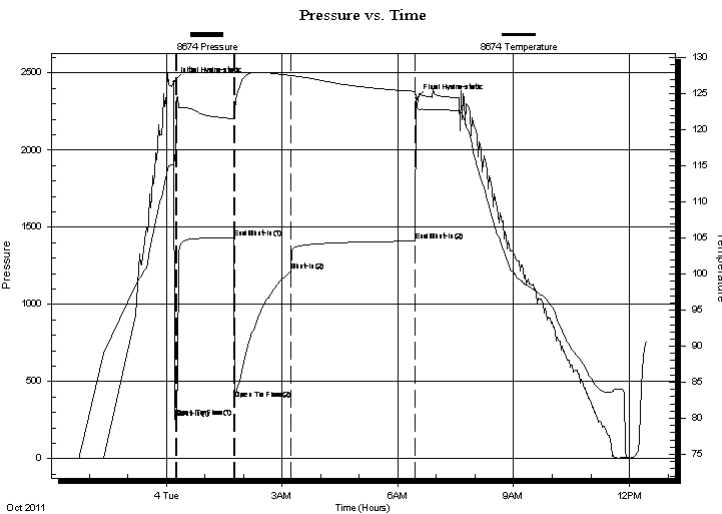
Last Calib.: 2011.10.04

Start Time: 21:45:05 End Time: 12:27:10

Time On Btm: 2011.10.04 @ 00:11:50

Time Off Btm: 2011.10.04 @ 06:28:30

**TEST COMMENT:** IF- Strong blow BOB 1min.  
 IS- No blow back.  
 FF- Strong blow BOB 1min, GTS 1hour 15min, TSTM.  
 FS- Strong blow .



## PRESSURE SUMMARY

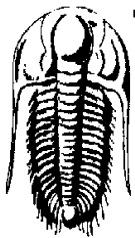
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2442.41	115.32	Initial Hydro-static
2	271.21	117.19	Open To Flow (1)
5	322.42	124.38	Shut-In(1)
94	1434.41	121.53	End Shut-In(1)
95	389.00	122.56	Open To Flow (2)
182	1216.97	127.55	Shut-In(2)
375	1410.40	125.35	End Shut-In(2)
377	2335.79	124.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
992.00	80%oil20%gastrace of mud	11.16
558.00	20%gas 80%oil trace of mud and w ater	7.83
186.00	20%mud30%w ater50%oil	2.61
124.00	5%oil5%gas10%mud80%w ater	1.74
744.00	100%w ater trace of gas and oil	10.44

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

Falcon Exploration Inc.

5/28/30

125 N Market street ste. 1252 Wichita Ks. 67202

Smith #1-5 nw

ATTN: Keith R.

Job Ticket: 42292

DST#: 2

Test Start: 2011.10.03 @ 21:45:00

**GENERAL INFORMATION:**

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:13:50

Time Test Ended: 12:27:10

Test Type: Conventional Straddle (Initial)

Tester: Harley Davidson

Unit No: 33

Interval: **5064.00 ft (KB) To 5112.00 ft (KB) (TVD)**

Total Depth: 5170.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2831.00 ft (KB)

2819.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 6772**

Press @RunDepth: psig @ ft (KB)

Start Date: 2011.10.03 End Date: 2011.10.04

Start Time: 21:45:05 End Time: 12:27:45

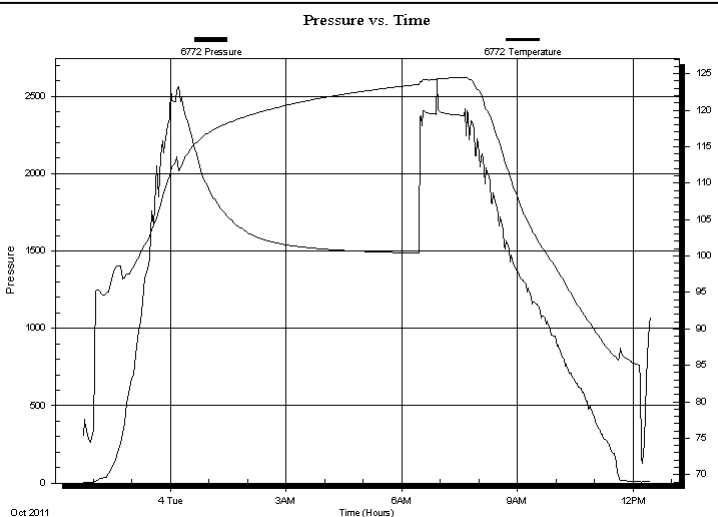
Capacity: 8000.00 psig

Last Calib.: 2011.10.04

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF- Strong blow BOB 1min.  
IS- No blow back.  
FF- Strong blow BOB 1min, GTS 1hour 15min, TSTM.  
FS- Strong blow .



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
992.00	80%oil20%gastrace of mud	11.16
558.00	20%gas 80%oil trace of mud and w ater	7.83
186.00	20%mud30%w ater50%oil	2.61
124.00	5%oil5%gas10%mud80%w ater	1.74
744.00	100%w ater trace of gas and oil	10.44

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Falcon Exploration Inc.

**5/28/30**

125 N Market street ste. 1252 Wichita Ks. 67202

**Smith #1-5 nw**

Job Ticket: 42292

**DST#: 2**

ATTN: Keith R.

Test Start: 2011.10.03 @ 21:45:00

## 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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
992.00	80%oil20%gastrace of mud	11.164
558.00	20%gas 80%oil trace of mud and w ater	7.827
186.00	20%mud30%w ater50%oil	2.609
124.00	5%oil5%gas10%mud80%w ater	1.739
744.00	100%w ater trace of gas and oil	10.436

Total Length: 2604.00 ft      Total Volume: 33.775 bbl

Num Fluid Samples: 0

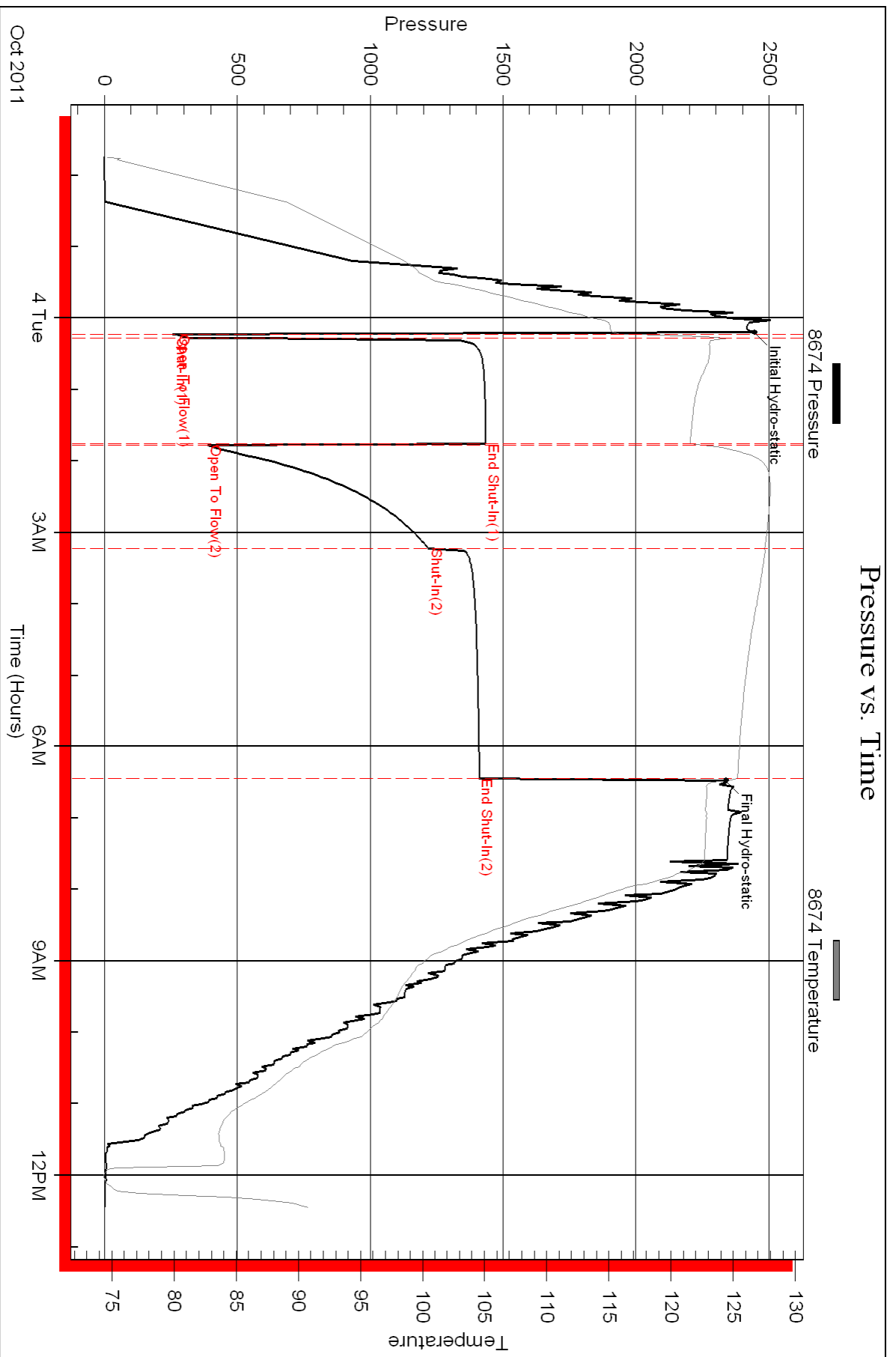
Num Gas Bombs: 0

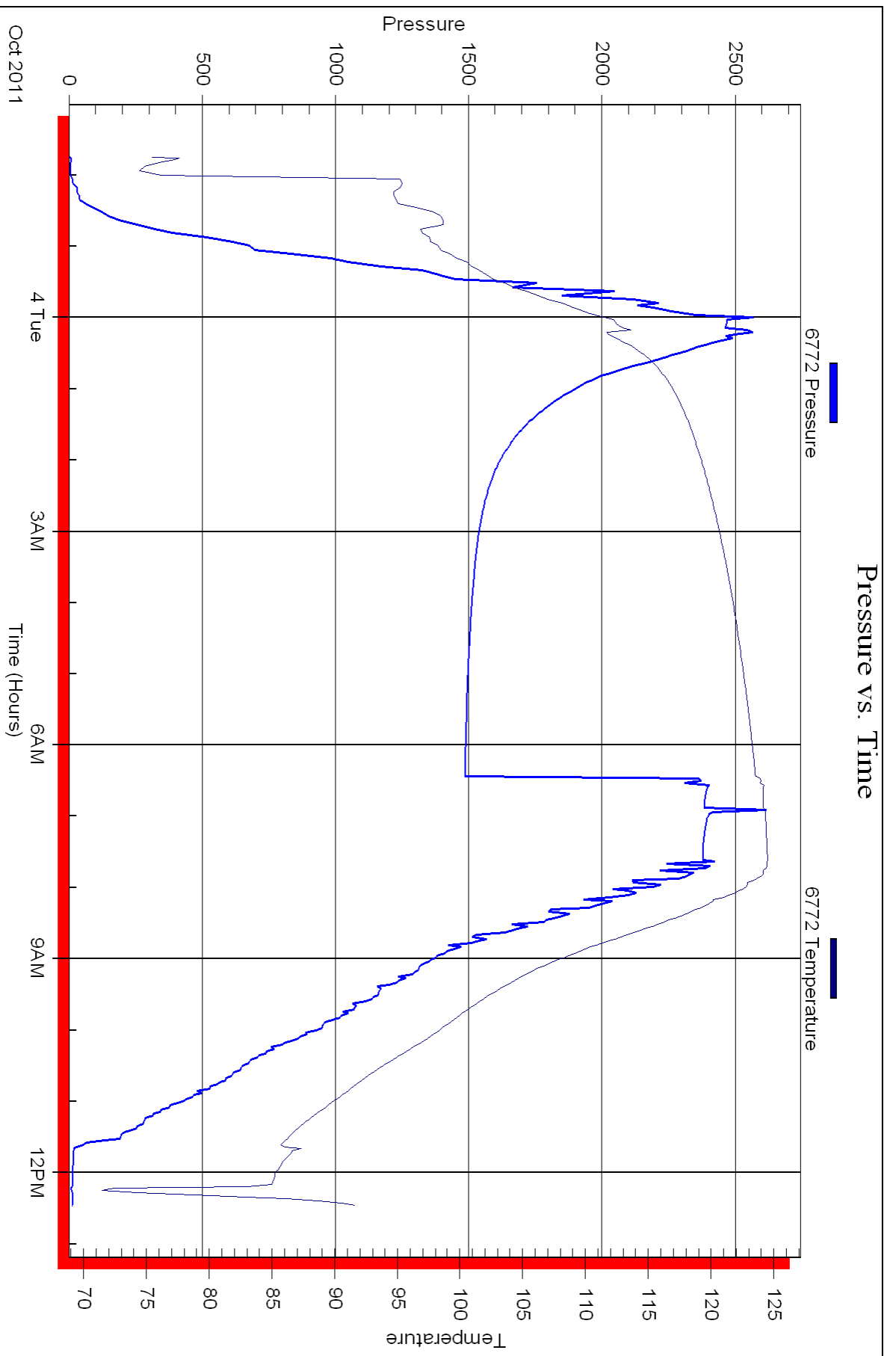
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil gravity 29    Water chl. 120000.





**OPERATOR**

Company: Falcon Exploration, Inc.  
 Address: 125 N. Market Suite 1252  
 Wichita, KS 67202  
 Contact Geologist: Brian Fisher  
 Contact Phone Nbr: 316-262-1378  
 Well Name: Smith #1-5 (NW)  
 Location: Sec 5 - T28S - R30W  
 Pool: API: 15-069-20348-0000  
 State: Kansas Field: Wildcat  
 Country: USA

Scale 1:240 Imperial

Well Name: Smith #1-5 (NW)  
 Surface Location: Sec 5 - T28S - R30W  
 Bottom Location: API: 15-069-20348-0000  
 License Number: 5316  
 Spud Date: 9/23/2011 Time: 18:30  
 Region: Gray County  
 Drilling Completed: 10/6/2011 Time: 14:30  
 Surface Coordinates: 1460' FNL & 330' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2819.00ft  
 K.B. Elevation: 2832.00ft  
 Logged Interval: 3400.00ft To: 5550.00ft  
 Total Depth: 5550.00ft  
 Formation: Mississippian  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 1460' FNL  
 E/W Co-ord: 330' FWL

**LOGGED BY**

**Keith Reavis**  
*Consulting Geologist*

Company: Keith Reavis, Inc.  
 Address: 3420 22nd Street  
 Great Bend, KS 67530  
 Phone Nbr: 620-617-4091  
 Logged By: KLG #136 Name: Keith Reavis and Dan Fredlund

**CONTRACTOR**

Contractor: Sterling Drilling Company  
 Rig #: 5  
 Rig Type: mud rotary  
 Spud Date: 9/23/2011 Time: 18:30  
 TD Date: 10/6/2011 Time: 14:30  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2832.00ft Ground Elevation: 2819.00ft  
 K.B. to Ground: 13.00ft

**NOTES**

A Sterling Tooke Daq Gas Detector was operational from surface casing down. The gas curve data was imported from said detector into this mudlog.  
 It was determined from electrical log analysis and the results of drill stem test #2, that 5 1/2" production casing be set and cemented and that the Smith #1-5 be further tested through perforations in the Morrow sands.  
 The samples were saved from this well and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.  
 Respectfully submitted,  
 Keith Reavis and Dan Fredlund


**Falcon Exploration, Inc.**  
**daily drilling report**

DATE	7:00 AM DEPTH	REMARKS
09/28/2011	3536	Geologist Keith Reavis on location @ 0420 hrs, 3443 ft., drilling ahead Foraker, Stotler, Tarkio
09/29/2011	4167	Geologist Dan Fredlund on location @ 13:30 hrs, @ 3550 ft. Drilling ahead at 4176 for Toronto, Lansing, Swope
09/30/2011	4626	Drilling ahead at 4626 Hertha, Marmaton, Pawnee, Cherokee.
10/01/2011	4968	Drilling for the Morrow
10/02/2011	5140	show in Morrow warrants test, conducting DST #2, geologist Keith Reavis on location 1900 hrs to relieve Dan Fredlund
10/03/2011	5140	wait on truck, try to reverse oil out, circ shear pin did not break, wait till daylight, dump load, TIH, ctch, drill into Miss, TOH to run straddle test on middle and upper Morrow sands
10/04/2011	5170	conducting DST #2, successful test, back in w/bit, ctch, resume drilling Miss/St. Gen
10/05/2011	5324	Drilling ahead, St. Gen, St. Lo
10/06/2011	5550	Drilling ahead Salem, TD @ 5550 ft., conduct logging operations and complete, geologist off location @ 1530 hrs

**Falcon Exploration, Inc.**  
**well comparison sheet**

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Smith #1-5					Josserand #1-5				Lanterman #1-8			
1460' FNL & 330' FWL					380' FSL & 850' FEL				2030' FNL & 370' FEL			
Sec 5-T28S-R30W					Sec 5-T28S-R30W				Sec 8-T28S-R30W			
2832 KB					2823 KB		Structural Relationship		2821 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Stotler	3530	-698	3530	-698	3542	-719	21	21	3532	-711	13	13
Tarkio	3604	-772	3602	-770	3616	-793	21	23	3603	-782	10	12
Bern	3700	-868	3700	-868	3712	-889	21	21	3700	-879	11	11
Topeka	3803	-971	3800	-968	3812	-989	18	21	3804	-983	12	15
Heebner	4142	-1310	4140	-1308	4151	-1328	18	20	4146	-1325	15	17
Lansing	4242	-1410	4236	-1404	4250	-1427	17	23	4249	-1428	18	24
Stark	4591	-1759	4590	-1758	4614	-1791	32	33	4606	-1785	26	27
Marmaton	4740	-1908	4738	-1906	4746	-1923	15	17	4753	-1932	24	26
Pawnee	4818	-1986	4822	-1990	4843	-2020	34	30	4836	-2015	29	25
Cherokee	4871	-2039	4870	-2038	4889	-2066	27	28	4881	-2060	21	22
Morrow	5071	-2239	5070	-2238	5098	-2275	36	37	5089	-2268	29	30
Morrow Sand	5076	-2244	5078	-2246	5103	-2280	36	34	5120	-2299	55	53
Mississippian	5146	-2314	5154	-2322	5139	-2316	2	-6	5146	-2325	11	3
Salem	5475	-2643	5474	-2642	5473	-2650	7	8	np			
Total Depth	5550	-2718	5552	-2720	5547	-2724	6	4	5406	-2585	-133	-135

**Drill Stem Test #1**



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Falcon Exploration Inc. **5/28/30**  
 125 N Market street ste. 1252 Wichita Ks. 67202 **Smith #1-5 nw**  
 Job Ticket: 42291 **DST#:1**  
 ATTN: Keith R Test Start: 2011.10.02 @ 10:45:00

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**GENERAL INFORMATION:**

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:28:00  
 Time Test Ended: 10:40:45  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Harley Davidson  
 Unit No: 33  
 Interval: **5066.00 ft (KB) To 5140.00 ft (KB) (TVD)**  
 Reference Elevations: 2831.00 ft (KB)  
 Total Depth: 5140.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches-Hole Condition: Fair  
 KB to GR/CF: 2819.00 ft (CF)

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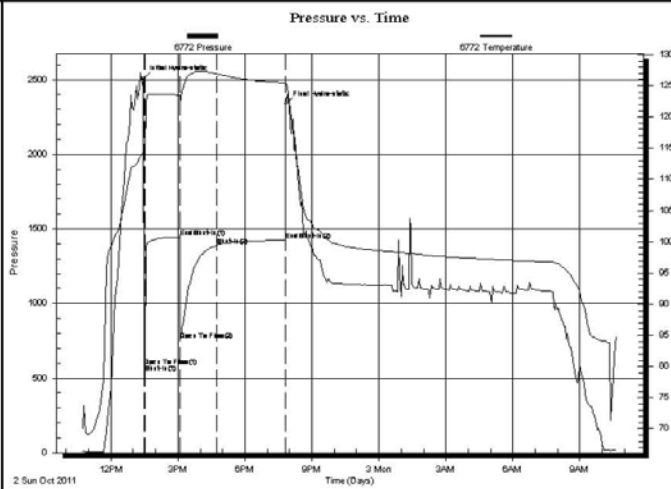
**Serial #: 6772 Outside**

Press@RunDepth: 1387.29 psig @ 5069.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.10.03 End Date: 2011.10.03 Last Calib.: 2011.10.03  
 Start Time: 10:45:05 End Time: 10:40:44 Time On Btm: 2011.10.02 @ 13:26:15  
 Time Off Btm: 2011.10.02 @ 19:50:15

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**TEST COMMENT:** IF- Strong blow BOB, ASAO.  
 IS- No blow back  
 FF- Strong blow BOB, ASAO, GTS, 1 hour. TSTM.  
 FS- Strong blow back

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**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2504.81	114.22	Initial Hydro-static
2	577.75	113.97	Open To Flow (1)
7	594.04	114.15	Shut-In(1)
99	1445.22	123.53	End Shut-In(1)
100	755.99	122.24	Open To Flow (2)
199	1387.29	126.91	Shut-In(2)
383	1424.55	125.50	End Shut-In(2)
384	2334.32	125.66	Final Hydro-static

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**Recovery Gas Rates**



Length (ft)	Description	Volume (bbl)
1008.00	trace water and mud 20%gas80%oil	11.39
1932.00	5%gas5%mud90%water trace oil <1%	27.10

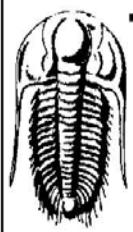
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 42291

Printed: 2011.10.04 @ 13:21:24

### Drill Stem Test #2



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

**5/28/30**

Falcon Exploration Inc.  
125 N Market street ste. 1252 Wichita Ks. 67202  
ATTN: Keith R

**Smith #1-5 nw**  
Job Ticket: 42292     **DST#:2**  
Test Start: 2011.10.03 @ 21:45:00

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**GENERAL INFORMATION:**

<p>Formation: <b>Morrow</b> Deviated: No Whipstock: ft (KB) Time Tool Opened: 00:13:50 Time Test Ended: 12:27:10</p>	<p>Test Type: Conventional Straddle (Initial) Tester: Harley Davidson Unit No: 33</p>
<p><b>Interval: 5064.00 ft (KB) To 5112.00 ft (KB) (TVD)</b> Total Depth: 5170.00 ft (KB) (TVD) Hole Diameter: 7.78 inches-Hole Condition: Fair</p>	<p>Reference Elevations: 2831.00 ft (KB) 2819.00 ft (CF) KB to GR/CF: 12.00 ft</p>

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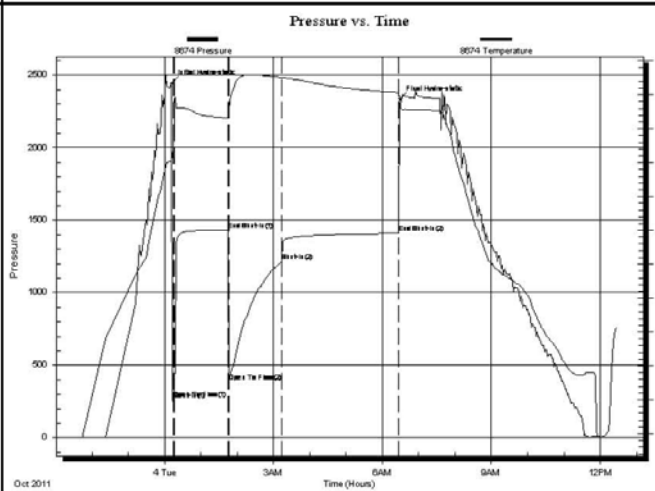
**Serial #: 8674**

Press@RunDepth: 1216.97 psig @	ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.10.03	End Date: 2011.10.04	Last Calib.: 2011.10.04
Start Time: 21:45:05	End Time: 12:27:10	Time On Btm: 2011.10.04 @ 00:11:50
		Time Off Btm: 2011.10.04 @ 06:28:30

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**TEST COMMENT:** IF- Strong blow BOB 1min.  
IS- No blow back  
FF- Strong blow BOB 1min, GTS 1hour 15min, TSTM  
FS- Strong blow.

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2442.41	115.32	Initial Hydro-static
2	271.21	117.19	Open To Flow (1)
5	322.42	124.38	Shut-In(1)
94	1434.41	121.53	End Shut-In(1)
95	389.00	122.56	Open To Flow (2)
182	1216.97	127.55	Shut-In(2)
375	1410.40	125.35	End Shut-In(2)
377	2335.79	124.61	Final Hydro-static

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**Recovery**

Length (ft)	Description	Volume (bbl)
992.00	80%oil20%gastrace of mud	11.16
558.00	20%gas 80%oil trace of mud and water	7.83
186.00	20%mud30%water50%oil	2.61
124.00	5%oil5%gas10%mud80%water	1.74
744.00	100%water trace of gas and oil	10.44

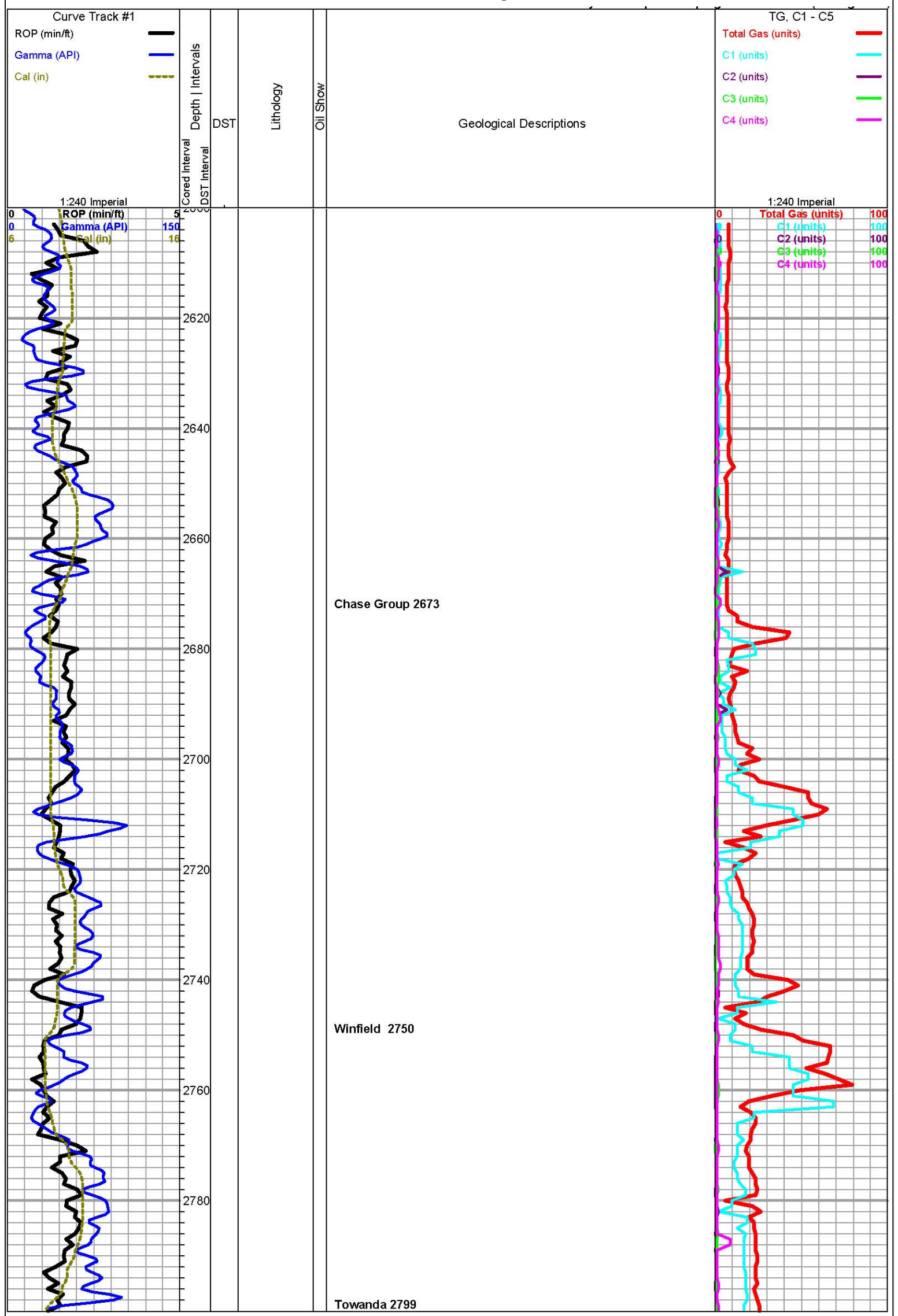
**Gas Rates**

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

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Trilobite Testing, Inc     Ref. No: 42292     Printed: 2011.10.04 @ 13:23:16

### Shallow Gas Log



#### ROCK TYPES

Dolprim	Lmst fw7>	shale, gry	shale, red	Slst
Lmst fw<7	shale, gm	Carbon Sh	Ss	

#### ACCESSORIES

<p><b>MINERAL</b></p> <ul style="list-style-type: none"> <li>▲ Chert, dark</li> <li>∟ Dolomitic</li> <li>∩ Glauconite</li> <li>× Mineral Crystals</li> <li>P Pyrite</li> <li>• Sandy</li> <li>△ Chert White</li> </ul>	<p><b>FOSSIL</b></p> <ul style="list-style-type: none"> <li>∩ Brachiopod</li> <li>∩ Bryozoa</li> <li>∩ Foraminifera</li> <li>F Fossils &lt; 20%</li> <li>∩ Oolite</li> <li>∩ Pellets</li> <li>∩ Oomoldic</li> </ul>	<p><b>STRINGER</b></p> <ul style="list-style-type: none"> <li>— Shale</li> <li>— green shale</li> <li>— red shale</li> </ul>	<p><b>TEXTURE</b></p> <ul style="list-style-type: none"> <li>C Chalky</li> <li>CX Cryptocrystalline</li> <li>L Lithogr</li> </ul>
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#### OTHER SYMBOLS

<p><b>MISC</b></p> <ul style="list-style-type: none"> <li>DR Daily Report</li> <li>Digital Photo</li> <li>Document</li> <li>Folder</li> <li>Link</li> <li>Vertical Log File</li> <li>Horizontal Log File</li> </ul>	<p><b>DST</b></p> <ul style="list-style-type: none"> <li>DST Int</li> <li>DST alt</li> <li>Core</li> <li>tailpipe</li> </ul>
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