

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 34015  
 Name: Zenith Petroleum Corporation  
 Address: 5766 S. Ivy Street  
 City/State/Zip: Greenwood Village, CO 80111  
 Purchaser: NCRA  
 Operator Contact Person: Jack M. Johnston  
 Phone: (303) 779-1900  
 Contractor: Name: Warren Drilling, LLC  
 License: 33724  
 Wellsite Geologist: Clayton Erickson  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled Docket No. \_\_\_\_\_  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No. \_\_\_\_\_  

11-1-07	11-9-07	12-4-07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 06321685000  
 County: Gove  
CE/2 NW NE SE SW Sec. 15 Twp. 14 S. R. 29  East  West  
660 feet from S / (N) (circle one) Line of Section  
1650 feet from (E) W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) (NE) SE NW SW  
 Lease Name: Coberly Partnership Well #: 15-1  
 Field Name: Coberly West Field  
 Producing Formation: LKC - "J" - 3962'-3966'  
 Elevation: Ground: 2638 Kelly Bushing: 2646  
 Total Depth: 4385 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 200' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set 2150 Feet  
 If Alternate II completion, cement circulated from \_\_\_\_\_  
 feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

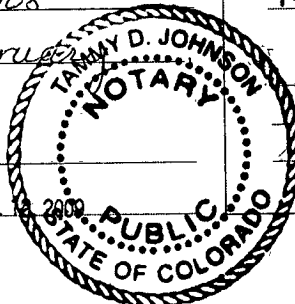
**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

AH2-DG-1128/b9

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Jack M. Johnston  
 Title: President Date: 2/14/08  
 Subscribed and sworn to before me this 14<sup>th</sup> day of February  
 2008  
 Notary Public: \_\_\_\_\_  
 Date Commission Expires: \_\_\_\_\_ My Commission Expires Apr. 18, 2009



**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
**FEB 19 2008**

Operator Name: Zenith Petroleum Corporation Lease Name: Coberly Partnership Well #: 15-1  
 Sec. 15 Twp. 14 S. R. 29  East  West County: Gove

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Computer Processed Interpretation Log Dual Induction Log Dual Compensated Porosity Log Microresistivity Log Sonic Cement Bond Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

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
Surface	12 1/4"	8 5/8"	23#	223'	Common	175	35 x Gel & 55 x Chloride
Production	7 7/8"	4 1/2"	16.60#	4377'	ASC	200	1000# Gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing		ASC 10% Salt 5# Gilsonite	200	500 gal WFR-2
<input type="checkbox"/> Plug Back TD		Salt	18	1 gal Cla-pro
<input type="checkbox"/> Plug Off Zone				

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	3962'-3966		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8" 4.7#	4,172.93	4,172.93	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
TBD			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	0	0		

Disposition of Gas		METHOD OF COMPLETION		Production Interval	
<input type="checkbox"/> Vented	<input type="checkbox"/> Sold	<input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole	<input checked="" type="checkbox"/> Perf.	<input type="checkbox"/> Dually Comp.
<i>(If vented, Submit ACO-18.)</i>			<input type="checkbox"/> Other (Specify)		<input type="checkbox"/> Commingled

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
**FEB 19 2008**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

REMIT TO  
RR 1 BOX 90 D  
HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

126

DATE	SEC.	RANGE/TWP.	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-31-07	116	T14SR29W	0706	0900	COUNTY 6006	STATE KS
LEASE POBERLY WEST			WELL# 15-1			

CONTRACTOR	Warren 20	OWNER	Zenith	Petrochem	
TYPE OF JOB	Surface				
HOLE SIZE	17 1/4	T.D.	225'	CEMENT	
CASING SIZE	8 5/8	DEPTH	213.20'	AMOUNT ORDERED	
TUBING SIZE		DEPTH			
DRILL PIPE		DEPTH			
TOOL		DEPTH			
PRES. MAX		MINIMUM		COMMON	175 @ 17 <sup>25</sup> 2143 <sup>25</sup>
DISPLACEMENT		SHOE JOINT		POZMIX	@
CEMENT LEFT IN CSG.				GEL	3 @ 16 <sup>50</sup> 49 <sup>50</sup>
PERFS				CHLORIDE	5 @ 46 <sup>50</sup> 732 <sup>50</sup>
				ASC	@
EQUIPMENT					@
PUMP TRUCK					@
#	01	Turkey			@
BULK TRUCK					@
#	01	Cherry			@
BULK TRUCK					@
#					@
				HANDLING	183 @ 1 <sup>90</sup> 347 <sup>90</sup>
				MILEAGE	45 @ 16 <sup>47</sup> 741 <sup>47</sup>
				TOTAL	

REMARKS	SERVICE	DEPT OF JOB	
12.45 hrs	Em. Serv		@
		PUMP TRUCK CHARGE	1 @ 815 <sup>00</sup> 815 <sup>00</sup>
		EXTRA FOOTAGE	@
		MILEAGE	45 @ 6 <sup>00</sup> 270 <sup>00</sup>
plug down		MANIFOLD	Head rental @ 100 <sup>00</sup> 100 <sup>00</sup>
			@
		TOTAL	

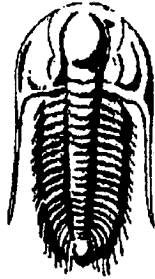
CHARGE TO:	Zenith	Petrochem
STREET	5766 S Ivy Street	STATE CO
CITY	Greenwood Village, CO	ZIP 80111

RECEIVED  
KANSAS CORPORATION COMMISSION

FEB 19 2008

To: Schippers Oil Field Service LLC  
You are hereby requested to rent cementing equipment

PLUG & FLOAT EQUIPMENT	CONSERVATION DIVISION
plug	WICHITA 652 @ 00
	@



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zenith Petroleum**

5766 S Ivy St  
Greenwood Village CO 80111

ATTN: Clayton Erickson

**15 14S 29W Gove KS**

**Coberly 15-1**

Start Date: 2007.11.05 @ 00:43:09

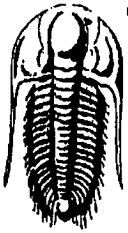
End Date: 2007.11.05 @ 08:31:33

Job Ticket #: 29672                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29672      **DST#: 1**  
Test Start: 2007.11.05 @ 00:43:09

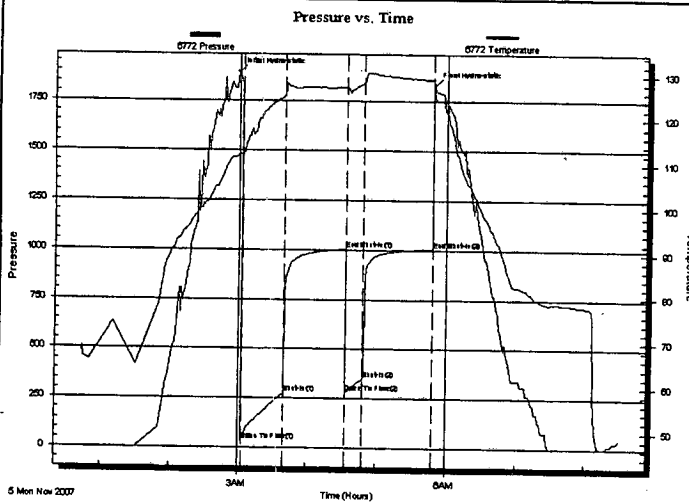
ATTN: Clayton Erickson

## GENERAL INFORMATION:

Formation: **Lansing C-E**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 03:03:04  
Time Test Ended: 08:31:33  
Interval: **3785.00 ft (KB) To 3840.00 ft (KB) (TVD)**  
Total Depth: **3840.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brandon Turley**  
Unit No: **35**  
Reference Elevations: **2646.00 ft (KB)**  
**2639.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 6772**      **Outside**  
Press@RunDepth: **349.40 psig @ 3786.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2007.11.05**      End Date: **2007.11.05**      Last Calib.: **2007.11.05**  
Start Time: **00:43:09**      End Time: **08:31:33**      Time On Btm: **2007.11.05 @ 02:59:04**  
Time Off Btm: **2007.11.05 @ 05:49:33**

**TEST COMMENT:** IF 1/4 blow BOB in 6 min.  
IS No return  
FF 1/4 blow BOB in 9 min.  
FS No return



## PRESSURE SUMMARY

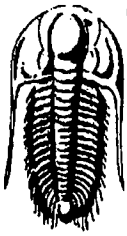
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.38	111.80	Initial Hydro-static
4	34.10	111.82	Open To Flow (1)
41	275.48	125.44	Shut-In(1)
95	1002.87	127.21	End Shut-In(1)
95	280.51	126.92	Open To Flow (2)
110	349.40	128.20	Shut-In(2)
170	1004.75	129.05	End Shut-In(2)
171	1829.52	125.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
434.00	MCW 90%W 10%M	4.45
186.00	MCW 70%W 30%M	2.61
93.00	MV Oil spots 50%W 50%M	1.30
1.00	Free Oil 100%O	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Zenith Petroleum

**Coberly 15-1**

5766 S Ivy St  
Greenwood Village CO 80111

**15 14S 29W Gove KS**

Job Ticket: 29672

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2007.11.05 @ 00:43:09

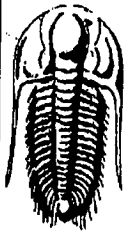
**Tool Information**

Drill Pipe:	Length: 3591.00 ft	Diameter: 3.80 inches	Volume: 50.37 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 51.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3785.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3759.00	
Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Jars	5.00			3774.00	
Safety Joint	2.00			3776.00	
Packer	5.00			3781.00	27.00 Bottom Of Top Packer
Packer	4.00			3785.00	
Stubb	1.00			3786.00	
Recorder	0.00	3881	Inside	3786.00	
Recorder	0.00	6772	Outside	3786.00	
Perforations	16.00			3802.00	
Change Over Sub	1.00			3803.00	
Drill Pipe	31.00			3834.00	
Change Over Sub	1.00			3835.00	
Bullnose	5.00			3840.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29672      DST#: 1  
Test Start: 2007.11.05 @ 00:43:09

### Mud and Cushion Information

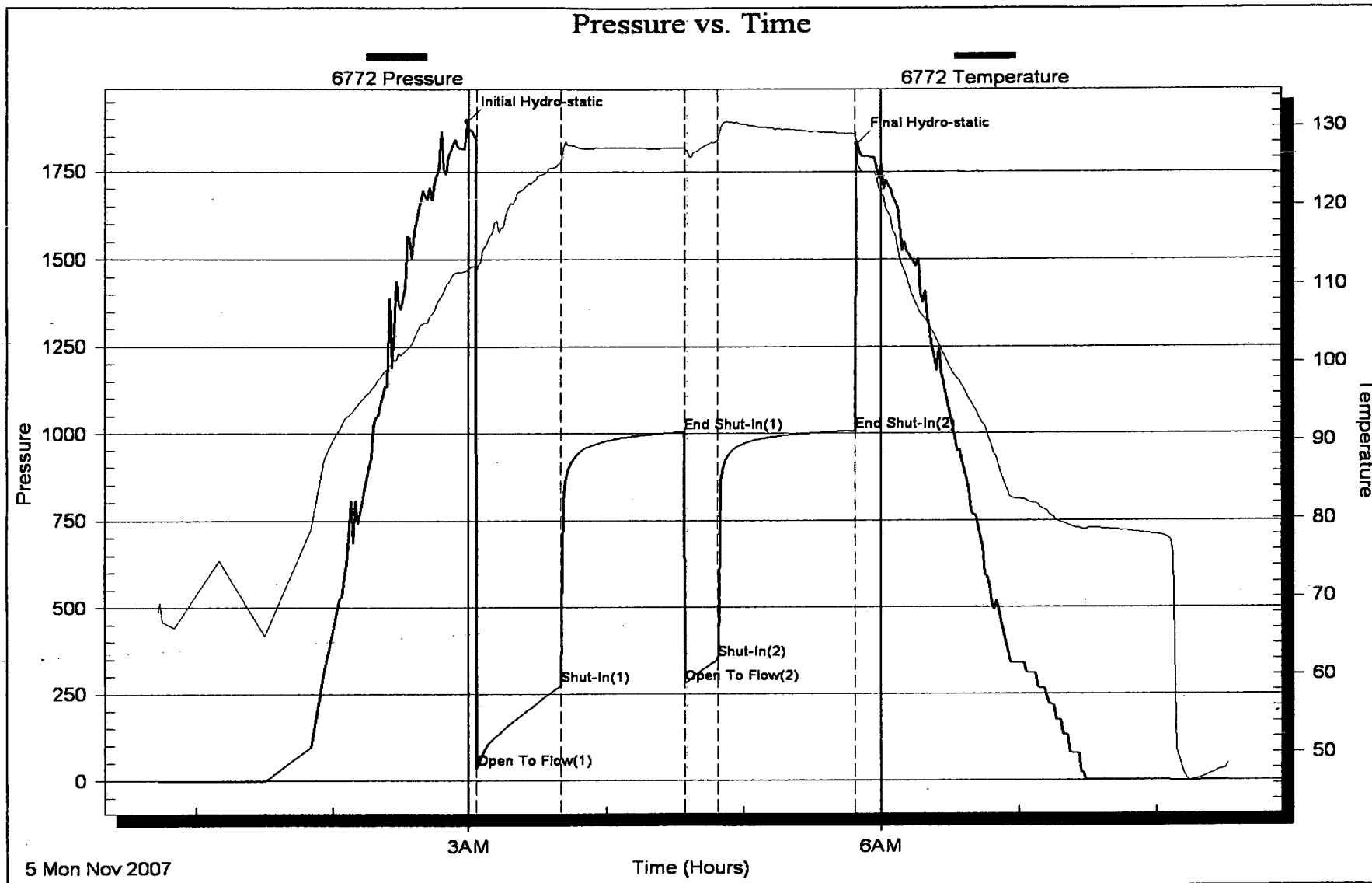
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	84000 ppm
Viscosity: 46.00 sec/qt	ft		
Water Loss: 7.95 in <sup>3</sup>	Cushion Volume:		
Resistivity: 0.00 ohm.m	Gas Cushion Type:		
Salinity: 1800.00 ppm	Gas Cushion Pressure:		
Filter Cake: 1.00 inches	psig		

### Recovery Information

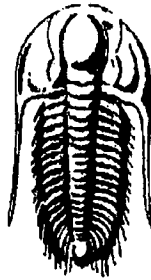
Recovery Table

Length ft	Description	Volume bbl
434.00	MCW 90%W 10%M	4.448
186.00	MCW 70%W 30%M	2.609
93.00	MV Oil spots 50%W 50%M	1.305
1.00	Free Oil 100%O	0.014

Total Length: 714.00 ft      Total Volume: 8.376 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zenith Petroleum**

5766 S Ivy St  
Greenwood Village CO 80111

ATTN: Clayton Erickson

**15 14S 29W Gove KS**

**Coberly 15-1**

Start Date: 2007.11.06 @ 00:10:16

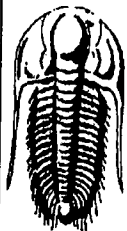
End Date: 2007.11.06 @ 08:46:26

Job Ticket #: 29673                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29673      **DST#: 2**  
Test Start: 2007.11.06 @ 00:10:16

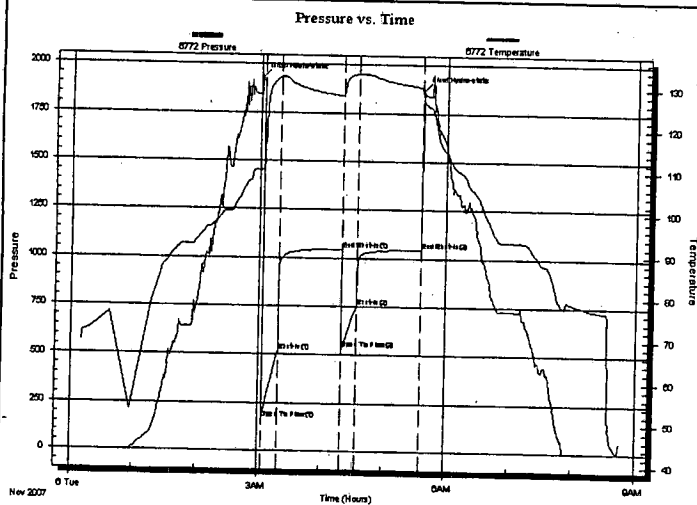
## GENERAL INFORMATION:

Formation: **Lansing G**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:04:11  
Time Test Ended: 08:46:26  
Interval: **3838.00 ft (KB) To 3870.00 ft (KB) (TVD)**  
Total Depth: 3870.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2646.00 ft (KB)  
2639.00 ft (CF)  
KB to GR/CF: 7.00 ft

Serial #: **6772**      **Outside**  
Press@RunDepth: 750.37 psig @ 3839.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.11.06      End Date: 2007.11.06      Last Calib.: 2007.11.06  
Start Time: 00:10:16      End Time: 08:46:26      Time On Btm: 2007.11.06 @ 03:01:41  
Time Off Btm: 2007.11.06 @ 05:36:55

TEST COMMENT: IF BOB in 1 min.  
IS No return  
FF BOB in 2 min.  
FS No return



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.96	110.27	Initial Hydro-static
3	167.52	109.97	Open To Flow (1)
18	515.43	132.27	Shut-In (1)
78	1046.16	127.94	End Shut-In (1)
79	532.55	128.07	Open To Flow (2)
93	750.37	133.14	Shut-In (2)
155	1045.40	130.10	End Shut-In (2)
156	1869.24	127.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1308.00	MCW 95%W 5%M	16.71
186.00	MCW 80%W 20%M	2.61
186.00	WCM Oil spots 30%W 70%M	2.61

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29673      DST#: 2  
Test Start: 2007.11.06 @ 00:10:16

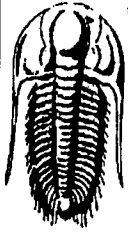
**Tool Information**

Drill Pipe:	Length: 3653.00 ft	Diameter: 3.80 inches	Volume: 51.24 bbl	Tool Weight: 1500.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3838.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3812.00	
Shut In Tool	5.00			3817.00	
Hydraulic tool	5.00			3822.00	
Jars	5.00			3827.00	
Safety Joint	2.00			3829.00	
Packer	5.00			3834.00	27.00      Bottom Of Top Packer
Packer	4.00			3838.00	
Stubb	1.00			3839.00	
Recorder	0.00	3881	Inside	3839.00	
Recorder	0.00	6772	Outside	3839.00	
Perforations	26.00			3865.00	
Bullnose	5.00			3870.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29673      DST#: 2  
Test Start: 2007.11.06 @ 00:10:16

## Mud and Cushion Information

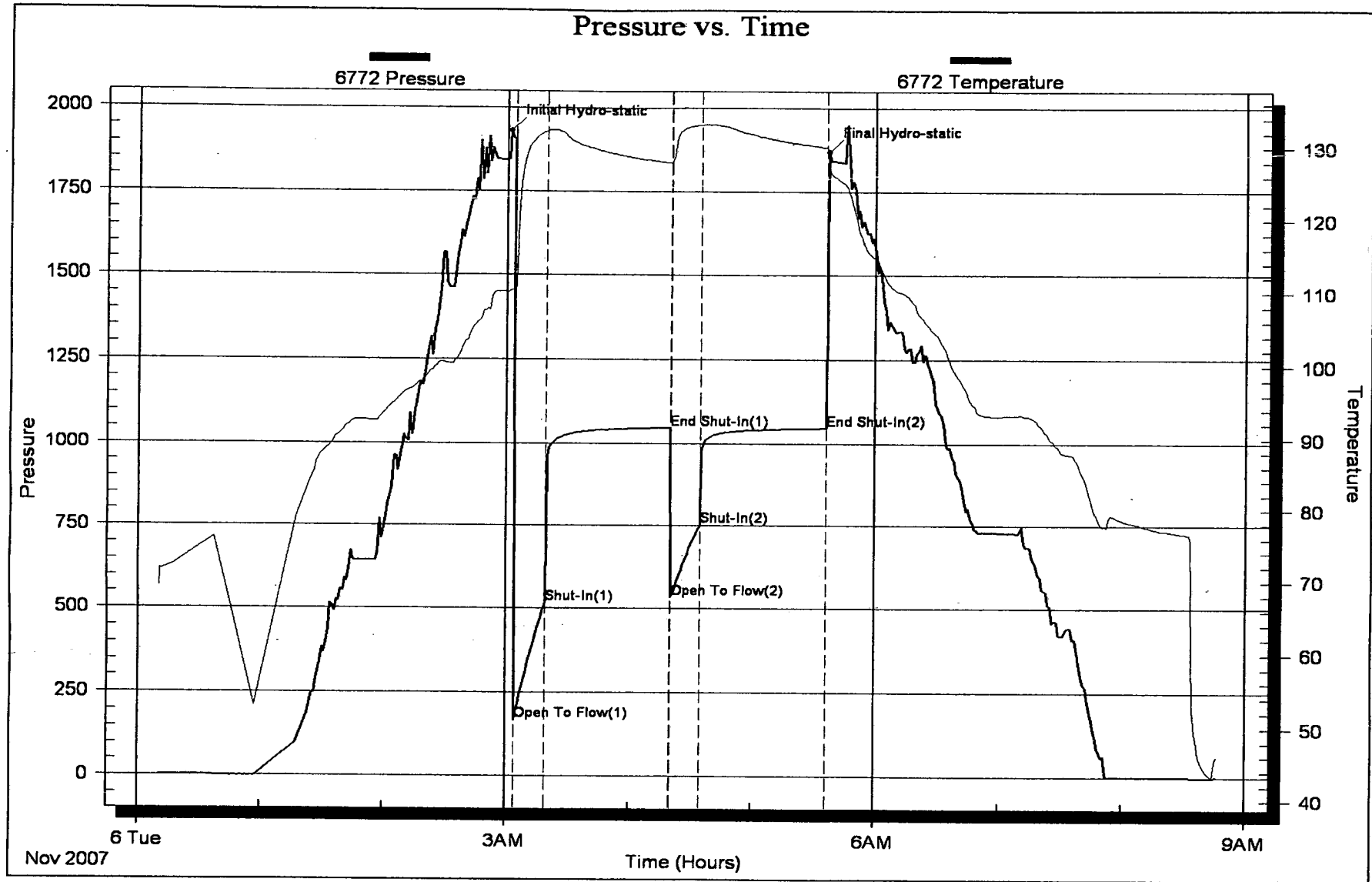
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 150000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

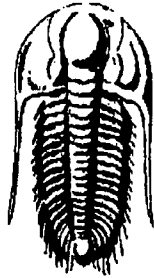
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1308.00	MCW 95%W 5%M	16.708
186.00	MCW 80%W 20%M	2.609
186.00	WCM Oil spots 30%W 70%M	2.609

Total Length: 1680.00 ft      Total Volume: 21.926 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zenith Petroleum**

5766 S Ivy St  
Greenwood Village CO 80111

ATTN: Clayton Erickson

**15 14S 29W Gove KS**

**Coberly 15-1**

Start Date: 2007.11.07 @ 08:00:19

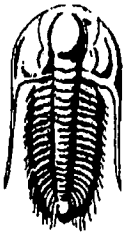
End Date: 2007.11.07 @ 16:54:19

Job Ticket #: 29674                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29674      DST#: 3  
Test Start: 2007.11.07 @ 08:00:19

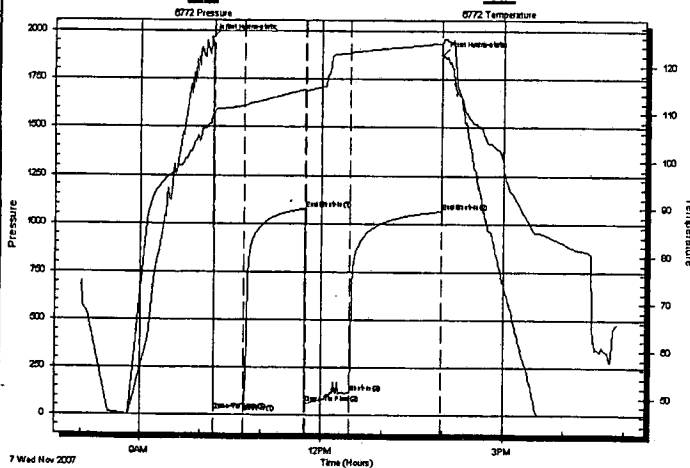
## GENERAL INFORMATION:

Formation: **Lansing J**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 10:12:49  
Time Test Ended: 16:54:19  
Interval: **3940.00 ft (KB) To 3949.00 ft (KB) (TVD)**  
Total Depth: **3949.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brandon Turley**  
Unit No: **35**  
Reference Elevations: **2646.00 ft (KB)**  
**2639.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 6772**      **Outside**  
Press@RunDepth: **117.08 psig @ 3941.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2007.11.07**      End Date: **2007.11.07**      Last Calib.: **2007.11.07**  
Start Time: **08:00:24**      End Time: **16:54:19**      Time On Btm: **2007.11.07 @ 10:10:34**  
Time Off Btm: **2007.11.07 @ 13:58:34**

**TEST COMMENT:** IF 1/4 blow built to 5 in 30 min.  
IS No return  
FF Surface blow built to 6 in 45 min.  
FS No return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.02	108.58	Initial Hydro-static
3	23.72	109.61	Open To Flow (1)
33	58.23	111.55	Shut-In(1)
94	1075.98	115.04	End Shut-In(1)
94	60.51	114.84	Open To Flow (2)
138	117.08	122.67	Shut-In(2)
228	1064.92	124.75	End Shut-In(2)
228	1874.30	124.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 10%W 90%M	0.30
120.00	MCW 60%W 40%M	0.59
31.00	WCM Oil spots 40%W 60%M	0.43

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29674      **DST#: 3**  
Test Start: 2007.11.07 @ 08:00:19

**Tool Information**

Drill Pipe:	Length: 3750.00 ft	Diameter: 3.80 inches	Volume: 52.60 bbl	Tool Weight: 1500.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3940.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3914.00	
Shut In Tool	5.00			3919.00	
Hydraulic tool	5.00			3924.00	
Jars	5.00			3929.00	
Safety Joint	2.00			3931.00	
Packer	5.00			3936.00	27.00 Bottom Of Top Packer
Packer	4.00			3940.00	
Stubb	1.00			3941.00	
Recorder	0.00	3881	Inside	3941.00	
Recorder	0.00	6772	Outside	3941.00	
Perforations	3.00			3944.00	
Bullnose	5.00			3949.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29674      DST#: 3  
Test Start: 2007.11.07 @ 08:00:19

## Mud and Cushion Information

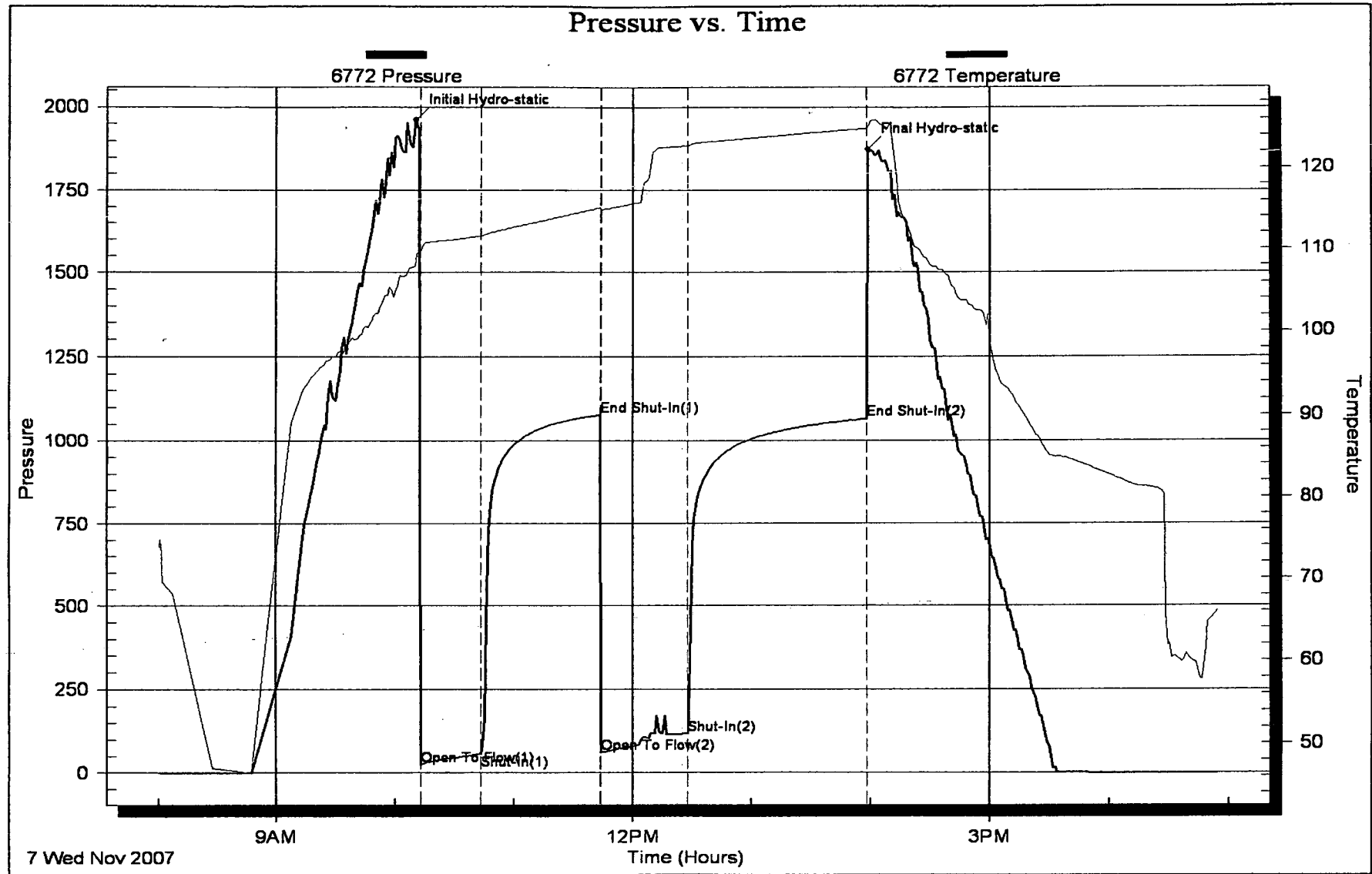
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 1.00 inches			

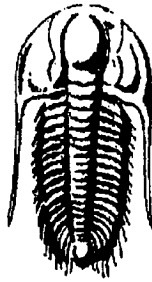
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 10%W 90%M	0.295
120.00	MCW 60%W 40%M	0.590
31.00	WCM Oil spots 40%W 60%M	0.435

Total Length: 211.00 ft      Total Volume: 1.320 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Zenith Petroleum**

5766 S Ivy St  
Greenwood Village CO 80111

ATTN: Clayton Erickson

**15 14S 29W Gove KS**

**Coberly 15-1**

Start Date: 2007.11.09 @ 07:02:59

End Date: 2007.11.09 @ 15:43:54

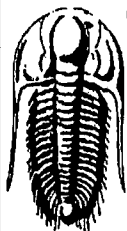
Job Ticket #: 29675                      DST #: 4

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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29675      **DST#: 4**  
Test Start: 2007.11.09 @ 07:02:59

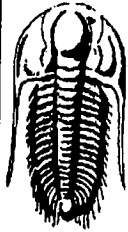
**Tool Information**

Drill Pipe:	Length: 3785.00 ft	Diameter: 3.80 inches	Volume: 53.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3962.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	426.00 ft			
Tool Length:	453.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3936.00	
Shut In Tool	5.00			3941.00	
Hydraulic tool	5.00			3946.00	
Jars	5.00			3951.00	
Safety Joint	2.00			3953.00	
Packer	5.00			3958.00	27.00      Bottom Of Top Packer
Packer	4.00			3962.00	
Stubb	1.00			3963.00	
Recorder	0.00	6772	Inside	3963.00	
Perforations	5.00			3968.00	426.00      Tool Interval
Packer	4.00			3972.00	
Stubb	1.00			3973.00	
Blank Off Sub	1.00			3974.00	
Perforations	1.00			3975.00	
Change Over Sub	1.00			3976.00	
Drill Pipe	406.00			4382.00	
Change Over Sub	1.00			4383.00	
Recorder	0.00	8353	Below	4383.00	
Bullnose	5.00			4388.00	1000452.00      Bottom Packers & Anchor

**Total Tool Length: 453.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Zenith Petroleum  
5766 S Ivy St  
Greenwood Village CO 80111  
ATTN: Clayton Erickson

**Coberly 15-1**  
**15 14S 29W Gove KS**  
Job Ticket: 29675      **DST#: 4**  
Test Start: 2007.11.09 @ 07:02:59

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 56000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2800.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
682.00	100%W	7.927
186.00	GOCMW 5%G 5%O 70%W 20%M	2.609
124.00	GOCWM 55%G 20%O 5%W 20%M	1.739
268.00	GO 30%G 70%O	3.759

Total Length: 1260.00 ft      Total Volume: 16.034 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

