

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

**ORIGINAL**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

OPERATOR: License # 4706  
Name: Messenger Petroleum, Inc.  
Address 1: 525 S Main  
Address 2: \_\_\_\_\_  
City: Kingman State: KS Zip: 67068 + \_\_\_\_\_  
Contact Person: Jon F. Messenger  
Phone: ( 620 ) 532-5400  
CONTRACTOR: License # 5142  
Name: Sterling Drilling Co.  
Wellsite Geologist: Jon F. Messenger  
Purchaser: OneOK

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

10-03-2011	10-13-2011	01-03-2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 095-22235-0000

Spot Description: \_\_\_\_\_  
N/2 S/2 S/2 NW Sec. 29 Twp. 29 S. R. 9  East  West  
2,145 Feet from  North /  South Line of Section  
1,320 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Kingman  
Lease Name: Goetz 'P' Well #: 1  
Field Name: Goetz

Producing Formation: Viola  
Elevation: Ground: 1684 Kelly Bushing: 1695  
Total Depth: 4574 Plug Back Total Depth: 4500  
Amount of Surface Pipe Set and Cemented at: 241 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: 241  
feet depth to: surface w/ 250 sx cmt.

**Drilling Fluid Management Plan**  
*(Data must be collected from the Reserve Pit)*

Chloride content: 14,600 ppm Fluid volume: 850 bbls  
Dewatering method used: settlement

Location of fluid disposal if hauled offsite:  
Operator Name: Messenger Petroleum, Inc  
Lease Name: Nicholas License #: 4706  
Quarter NE Sec. 20 Twp. 30 S. R. 8  
County: Kingman Permit #: 27,434

**RECEIVED**  
**JUN 18 2012**

**KCC WICHITA**

**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.

**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.

Signature: [Signature]  
Title: President Date: 06-14-2012

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dg Date: 6/22/12

Operator Name: Messenger Petroleum, Inc. Lease Name: Goetz 'P' Well #: 1  
 Sec. 29 Twp. 29 S. R. 9  East  West County: Kingman

**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 complete copy of all Electric Wire-line 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>DCP/DIL/MEL</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Indian Cave</td> <td>2452</td> <td>-757</td> </tr> <tr> <td>Heebner</td> <td>3406</td> <td>-1711</td> </tr> <tr> <td>Lansing</td> <td>3620</td> <td>-1925</td> </tr> <tr> <td>Swope</td> <td>3968</td> <td>-2273</td> </tr> <tr> <td>Viola</td> <td>4430</td> <td>-2735</td> </tr> <tr> <td>Simpson</td> <td>4508</td> <td>-2813</td> </tr> <tr> <td>LTD</td> <td>4574</td> <td>-2878</td> </tr> </table>	Name	Top	Datum	Indian Cave	2452	-757	Heebner	3406	-1711	Lansing	3620	-1925	Swope	3968	-2273	Viola	4430	-2735	Simpson	4508	-2813	LTD	4574	-2878
Name	Top	Datum																							
Indian Cave	2452	-757																							
Heebner	3406	-1711																							
Lansing	3620	-1925																							
Swope	3968	-2273																							
Viola	4430	-2735																							
Simpson	4508	-2813																							
LTD	4574	-2878																							

CASING RECORD <input checked="" 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" new	23#	241	60/40 poz	250	2%gel,3%CC,1*4#CF
production	7-7/8"	5-1/2" new	15.50#	4571	AA-2	100	0.5%FLA,.75%GB,10%slt
							5# gil, 1/4# CF

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				

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
4	perf lower Simpson Sd @ 4518.5-4521.5	500 gal 10% MCA; 1000 gals 10% NEFE	
	Set CIBP @ 4500		
4	perf Viola @ 4430-4433	500 gals 15% MCA	

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>4025</u>	Packer At: <u>none</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------	---------------------	---------------------	------------------------	--

Date of First, Resumed Production, SWD or ENHR. <u>05-18-2012</u>	Producing Method: <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. <u>241</u>	Gas Mcf <u>8</u>	Water Bbls. <u>1757</u>	Gas-Oil Ratio <u>33:1</u>	Gravity

DISPOSITION OF GAS: <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Viola 4430-4433</u>
--	--	--

# QUALITY WELL SERVICE, INC.

5307

Home Office 324 Simpson St., Pratt, KS 67124

Todd's Cell 620-388-5422  
Office / Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	10-4-11	Sec.	29	Twp.	29	Range	9	County	Kingman	State	Ks	On Location		Finish	7:30
Lease	GOETZ	Well No.	#1	Location Willawdale Ks 1W 1 1/2 S E into											
Contractor	STERLING DELG #1							Owner							
Type Job	SURFACE							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4		T.D.		243		Charge To								
Csg.	8 5/8 23		Depth		241		MESSENGER PET								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace				Cement Amount Ordered 250 sc 60/40 P02								
<b>EQUIPMENT</b>							2 1/2 FEL 3 1/2 CC 1 1/4" CF								
Pumptrk	3	No.	TODD				Common 150								
Bulktrk	4	No.	BRADY				Poz. Mix 100								
Bulktrk		No.					Gel. 4								
Pickup		No.	MIKE				Calcium 0								
<b>JOB SERVICES &amp; REMARKS</b>							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 63								
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Run to pt's 8 5/8 23"							Sand								
set @ 241							Handling 262								
MIK 1/2 Pump 250 sc 60/40							Mileage 35								
2 1/2 FEL 3 1/2 CC 1 1/4" CF							<b>8 5/8 FLOAT EQUIPMENT</b>								
14-7 1/2 gal. 1.25 fl 3							Guide Shoe								
SHUT DOWN RELEASE WORKING PLUG							Centralizer								
							Baskets								
OESD 14.4 BOLS TOTAL GOOD CIRC THIS JOB CIRCL CUT 10 PIT Plug down @ 7:00 AM							AFU Inserts								
							Float Shoe								
Thank TODD MIKE & BRADY							Latch Down								
							1 Working Plug								
Signature I. J. [unclear]							Pumptrk Charge								
							Mileage 35								
							Tax								
							Discount								
							Total Charge								

RECEIVED

JUN 18 2012

KCC WICHITA



10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

DATE \_\_\_\_\_ TICKET NO. 5037

DATE OF JOB <u>10-14-11</u> DISTRICT <u>PRATT KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER <u>Messenger Pat</u>		LEASE <u>90072 'P'</u> WELL NO. <u>1</u>	
ADDRESS:		COUNTY <u>Lawrence</u> STATE <u>KS</u>	
CITY STATE		SERVICE CREW <u>Sullivan, McKinnon, McQuinn</u>	
AUTHORIZED BY		JOB TYPE: <u>new well construction</u>	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM-PM	TIME
33708-20920	35						10-14-11		8:00
19826-19860	35								
37900									
						ARRIVED AT JOB		AM-PM	12:45
						START OPERATION		AM-PM	7:00
						FINISH OPERATION		AM-PM	7:40
						RELEASED		AM-PM	8:15
						MILES FROM STATION TO WELL			25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	oil	SK	100		1,700.00
CP 103	60/40 sand	SK	55		1,650.00
CC 107	oil	lb	25		92.50
CC 111	salt	lb	459		279.00
CC 112	oil	lb	29		174.00
CC 115	oil	lb	71		365.65
CC 120	oil	lb	47		252.50
CC 201	oil	lb	500		335.00
CF 103	Top Rubb. 5 1/2	SA	1		105.00
CF 251	guide shoe	SA	1		250.00
CF 1451	flange	SA	1		215.00
CF 1651	flange	SA	4		440.00
CF 151	man block	SA	500		430.00
CF 704	KCL Sub	SA	5		175.00
CF 100	packing	SA	25		160.25
CF 101	flange	SA	50		350.00
CF 113	flange	SA	178		284.00

RECEIVED  
JUN 18 2012  
KCC WICHITA

CHEMICAL / ACID DATA:			

SUB TOTAL		
DLS		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: [Signature]  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_



10244 NE Hwy. 61  
 P.O. Box 8613  
 Pratt, Kansas 67124  
 Phone 620-672-1201

**FIELD SERVICE TICKET**  
 1718 35933 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>10-14-11</u> DISTRICT <u>Pratt</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER <u>Messinger, Pat</u>		LEASE <u>90572 P</u> WELL NO. <u>1</u>	
ADDRESS		COUNTY <u>Kimberly</u> STATE <u>KS</u>	
CITY STATE		SERVICE CREW <u>Sullivan, M..., K...</u>	
AUTHORIZED BY		JOB TYPE: <u>CDW S/C</u>	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
33718-20920							10-14-11			
19826-19860										1245
37900										2:15
										3:45
										5:15
										25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CE 305	Depth Gauge 4001-5000	EA	1		2.5700
CE 340	Blowdown - max	SK	155		217.00
CE 501	CASIPAC Solid Sealant	EA	1		200.00
PE 504	plus constant rate	SK	1		250.00
S 003	Schramm Super	SK	1		175.00

RECEIVED  
 JUN 18 2012  
 KCC WICHITA

CHEMICAL / ACID DATA:			

SUB TOTAL		71604.46
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	--

FIELD SERVICE ORDER NO. \_\_\_\_\_

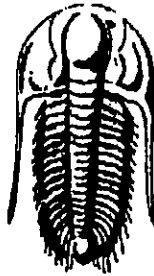
Customer <i>MISSOURIA Ref</i>		Lease No.		Date <i>10-14-11</i>	
Lease <i>QUETZ 'A'</i>		Well # <i>1</i>			
Field Order # <i>5087</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>	Depth	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>CNW 5 1/2 Logging</i>			Formation	Legal Description <i>29-29-9</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>							5 Min.	
Depth <i>7560</i>	Depth	From	To	Pre Pad	Max			
Volume <i>108</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>7537</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative				Station Manager <i>DAVE SCOTT</i>		Treater <i>Robert Williams</i>			
Service Units	<i>37900</i>	<i>33708</i>	<i>25920</i>	<i>19826</i>	<i>19860</i>				
Driver Names	<i>Sullivan</i>	<i>Melso J</i>	<i>McPherson</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:45</i>					<i>on loc. soft, mod.</i>
					<i>Run 110 TFS 5 1/2 # 15.5 csg.</i>
					<i>cont 1, 2, 4, 15</i>
<i>5:30</i>					<i>CASING ON BOTTOM</i>
<i>5:40</i>					<i>Hook in to circ.</i>
<i>7:00</i>			<i>12</i>	<i>3</i>	<i>It runs flush</i>
			<i>5</i>		<i>SPACE 4" 20</i>
			<i>7</i>	<i>5</i>	<i>mix 25% SCAVENGER cont @ 14.2%</i>
			<i>24</i>		<i>mix 100% AA-7 cont @ 15.4%</i>
					<i>cont mixed that have wash, pump lines</i>
					<i>Release Plug</i>
					<i>At Disc w/ 2% KCL 4" 9</i>
	<i>300</i>		<i>85</i>		<i>lit + Psi</i>
	<i>500</i>		<i>95</i>		<i>Stop ltr</i>
<i>7:30</i>	<i>1450</i>		<i>108</i>	<i>4</i>	<i>Start down</i>
			<i>6</i>		<i>plug P.H</i>
					<i>150B Complete</i>
					<i>Thank you</i>

RECEIVED  
JUN 18 2012  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon F Messenger

**Goetz 'P' #1**

**29-29s-9w Kingman,KS**

Start Date: 2011.10.09 @ 02:03:54

End Date: 2011.10.09 @ 12:59:24

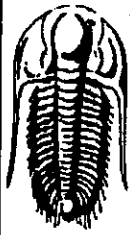
Job Ticket #: 44066                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

RECEIVED  
JUN 18 2012  
KCC WICHITA

Printed: 2011.11.02 @ 15:10:32

Messenger Petroleum Inc. 29-29s-9w Kingman,KS Goetz 'P' #1 DST # 1 Swope 2011.10.09



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Messenger Petroleum Inc.

29-29s-9w Kingman, KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44066

DST#: 1

ATTN: Jon F Messenger

Test Start: 2011.10.09 @ 02:03:54

### GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:39

Time Test Ended: 12:59:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 34

Interval: 3962.00 ft (KB) To 3978.00 ft (KB) (TVD)

Reference Elevations: 1695.00 ft (KB)

Total Depth: 3978.00 ft (KB) (TVD)

1684.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Outside

Press@RunDepth: 169.79 psig @ 3963.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.09

End Date:

2011.10.09

Last Calib.: 2011.10.09

Start Time: 02:03:59

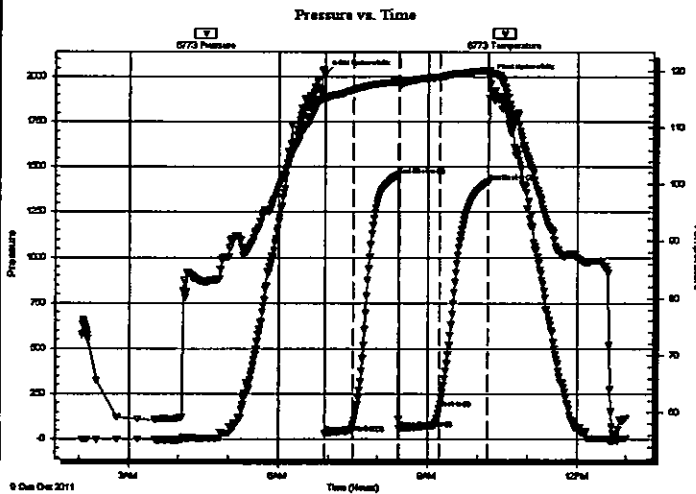
End Time:

12:59:24

Time On Btrr 2011.10.09 @ 06:54:39

Time Off Btrr 2011.10.09 @ 10:14:24

TEST COMMENT: IF: Strong blow BOB 25 min  
IS: No blow back  
FF: Strong blow BOB 5 min  
FSI: No blow back



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.49	115.20	Initial Hydro-static
1	32.71	115.17	Open To Flow (1)
35	77.95	116.67	Shut-In(1)
90	1456.04	118.06	End Shut-In(1)
92	59.57	117.50	Open To Flow (2)
139	169.79	118.93	Shut-In(2)
198	1418.59	120.07	End Shut-In(2)
200	1994.18	119.87	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	1116' GIP	0.00
120.00	G,O,W,M 60%gas20%w ater15%oil5% m	0.59
60.00	G,O,W,M 10%gas5%oil40%w ater35% m	0.30

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.  
525 S. Main  
Kingman, KS 67068  
ATTN: Jon F Messenger

**29-29s-9w Kingman, KS**  
**Goetz 'P' #1**  
Job Ticket: 44066      DST#: 1  
Test Start: 2011.10.09 @ 02:03:54

### Tool Information

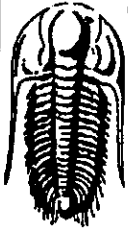
Drill Pipe:	Length: 3730.00 ft	Diameter: 3.80 inches	Volume: 52.32 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.39 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3962.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	3.00			3952.00	
Packer	5.00			3957.00	29.00      Bottom Of Top Packer
Packer	5.00			3962.00	
Stubb	1.00			3963.00	
Recorder	0.00	6773	Outside	3963.00	
Recorder	0.00	8166	Outside	3963.00	
Perforations	12.00			3975.00	
Bullnose	3.00			3978.00	16.00      Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Messenger Petroleum Inc.

**29-29s-9w Kingman,KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44066

DST#: 1

ATTN: Jon F Messenger

Test Start: 2011.10.09 @ 02:03:54

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.76 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	1116' GIP	0.000
120.00	G,O,W,M 60%gas20%water15%oil5%mud	0.590
60.00	G,O,W,M 10%gas5%oil40%water35%mud	0.295

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

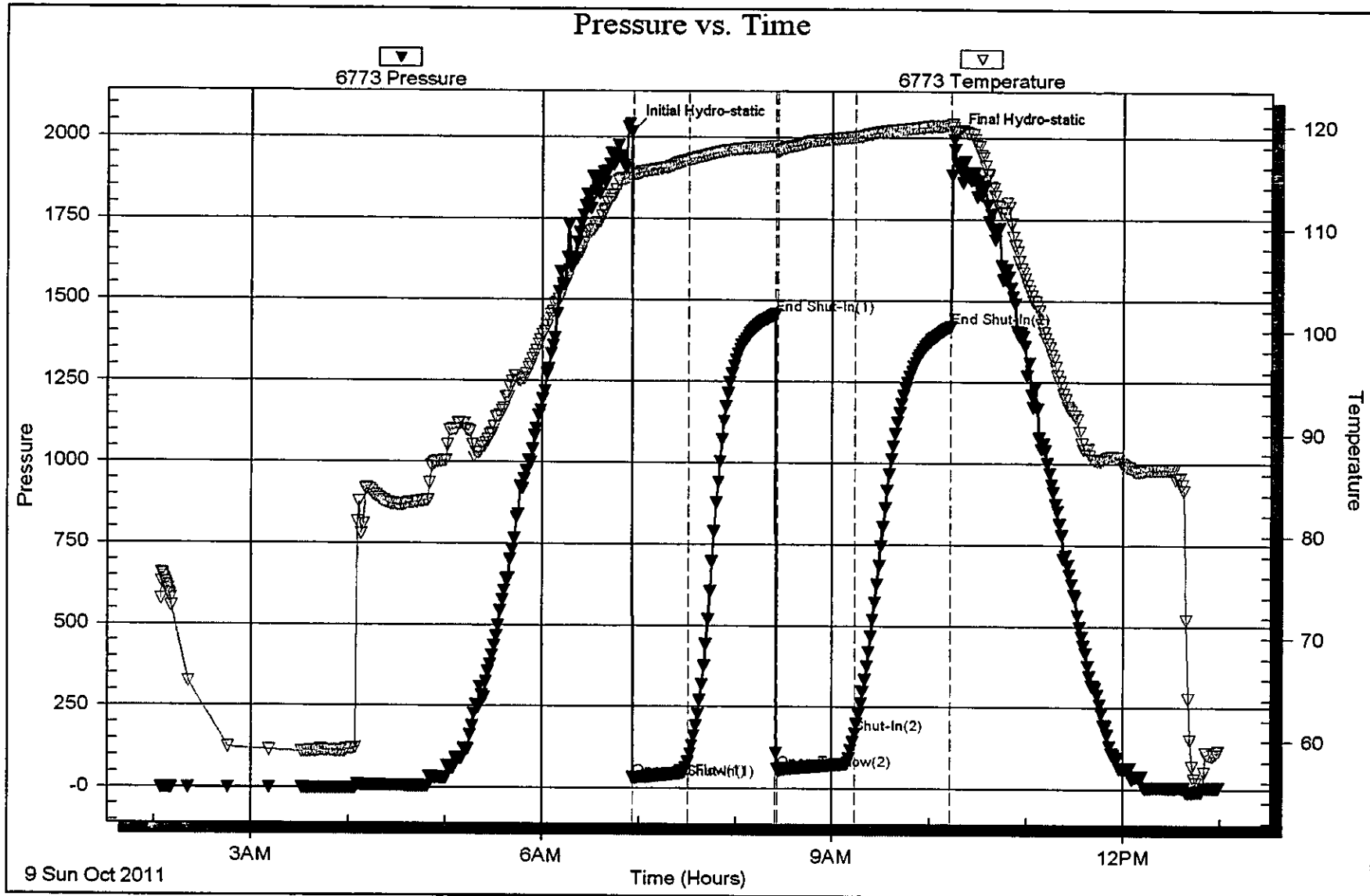
Num Gas Bombs: 0

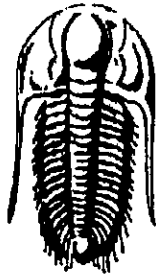
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon F Messenger

**Goetz 'P' #1**

**29-29s-9w Kingman,KS**

Start Date: 2011.10.11 @ 05:38:55

End Date: 2011.10.11 @ 14:29:25

Job Ticket #: 44004                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 15:11:27

Messenger Petroleum Inc. 29-29s-9w Kingman,KS Goetz 'P' #1 DST # 2 Viola 2011.10.11



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

29-29s-9w Kingman, KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44004 DST#: 2

ATTN: Jon F Messenger

Test Start: 2011.10.11 @ 05:38:55

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:58:55

Time Test Ended: 14:29:25

Interval: 4430.00 ft (KB) To 4436.00 ft (KB) (TVD)

Total Depth: 4436.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Reference Elevations: 1695.00 ft (KB)

1684.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8167

Inside

Press@RunDepth: 1230.54 psig @ 4431.00 ft (KB)

Start Date: 2011.10.11

End Date: 2011.10.11

Start Time: 05:39:00

End Time: 14:29:25

Capacity: 8000.00 psig

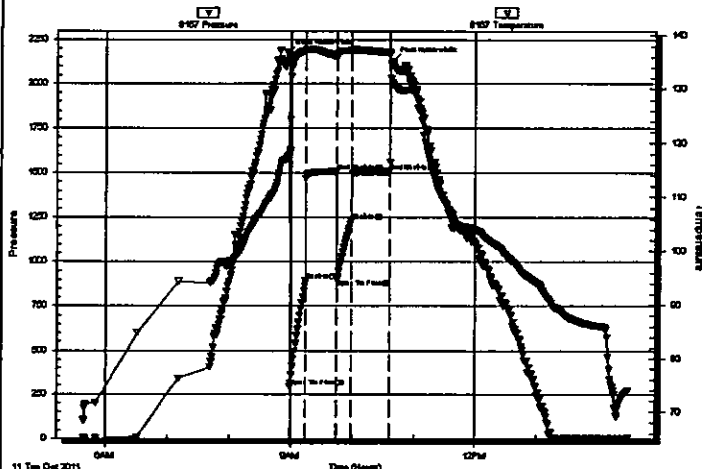
Last Calib.: 2011.10.11

Time On Btm: 2011.10.11 @ 08:56:40

Time Off Btm: 2011.10.11 @ 10:38:25

TEST COMMENT: IF: Strong blow . B.O.B. in 50 secs.  
IS: Weak blow . 1/4".  
FF: Strong blow . B.O.B. in 46 secs.  
FSI: Weak blow . Increase to to 5".

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.39	117.58	Initial Hydro-static
3	290.71	118.72	Open To Flow (1)
18	891.27	137.13	Shut-In(1)
48	1508.46	136.27	End Shut-In(1)
48	904.54	136.07	Open To Flow (2)
62	1230.54	137.19	Shut-In(2)
99	1508.86	136.82	End Shut-In(2)
102	2127.61	130.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1785.00	SW/w o specs/ Rw .075ohms@81deg	23.09
325.00	SO&GCV 2%o 3%g 95%w	4.56
310.00	GM&OCV 10%g 8%rn 17%o 65%w	4.35
75.00	CGO 12%g 88%o	1.05
0.00	665 ft.of GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44004

**DST#: 2**

ATTN: Jon F Messenger

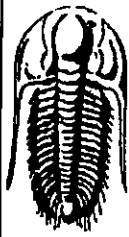
Test Start: 2011.10.11 @ 05:38:55

### Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 60.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4430.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	26.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4411.00	
Shut in tool	5.00			4416.00	
HMV	5.00			4421.00	
Packer	4.00			4425.00	20.00 Bottom Of Top Packer
Packer	5.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	8167	Inside	4431.00	
Recorder	0.00	8370	Outside	4431.00	
Bullnose	5.00			4436.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>26.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum Inc.

29-29s-9w Kingman, KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44004

DST#: 2

ATTN: Jon F Messenger

Test Start: 2011.10.11 @ 05:38:55

## 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:

93000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1785.00	SWW o specs/ Rw .075ohms@81deg	23.089
325.00	SO&GCW 2%o 3%g 95%w	4.559
310.00	GM&OCW 10%g 8%m 17%o 65%w	4.348
75.00	CGO 12%g 88%o	1.052
0.00	665 ft. of GIP	0.000

Total Length: 2495.00 ft

Total Volume: 33.048 bbl

Num Fluid Samples: 0

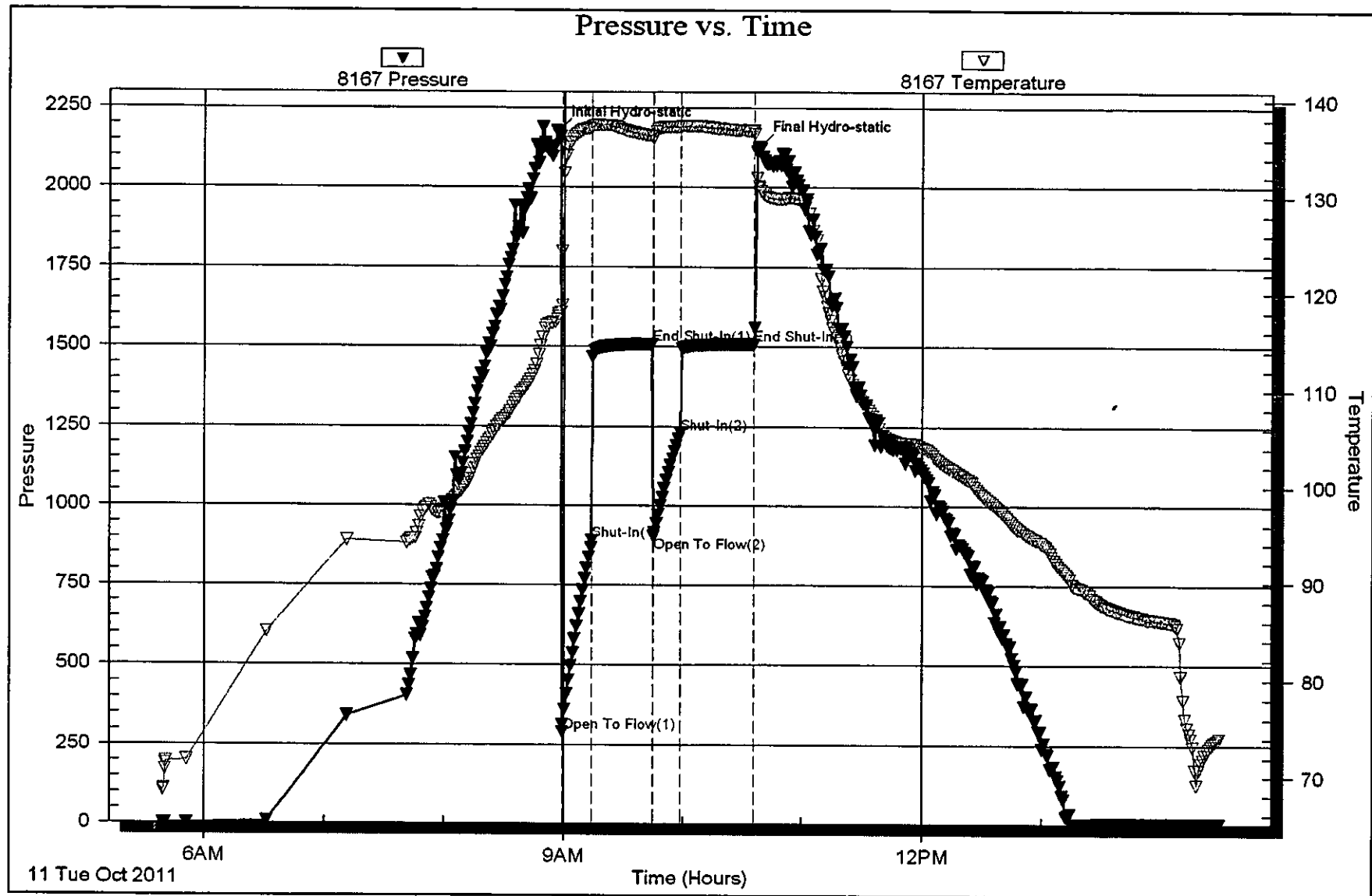
Num Gas Bombs: 0

Serial #: none

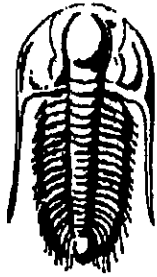
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon F Messenger

**Goetz 'P' #1**

**29-29s-9w Kingman,KS**

Start Date: 2011.10.12 @ 05:25:04

End Date: 2011.10.12 @ 12:49:49

Job Ticket #: 44005                      DST #: 3

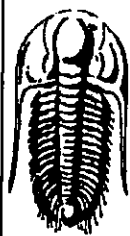
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 15:11:55

Messenger Petroleum Inc. 29-29s-9w Kingman,KS Goetz 'P' #1 DST # 3 Simpson 2011.10.12



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44005

**DST#: 3**

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 05:25:04

### GENERAL INFORMATION:

Formation: **Simpson**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 08:32:49

Time Test Ended: 12:49:49

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Gary Revoteaux**

Unit No: **56**

Interval: **4517.00 ft (KB) To 4523.00 ft (KB) (TVD)**

Total Depth: **4523.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1695.00 ft (KB)**

**1684.00 ft (CF)**

**KB to GR/CF: 11.00 ft**

**Serial #: 8167**

**Inside**

Press@RunDepth: **1566.71 psig @ 4518.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.10.12**

End Date: **2011.10.12**

Last Calib.: **2011.10.12**

Start Time: **05:25:09**

End Time: **12:49:48**

Time On Btm: **2011.10.12 @ 08:30:49**

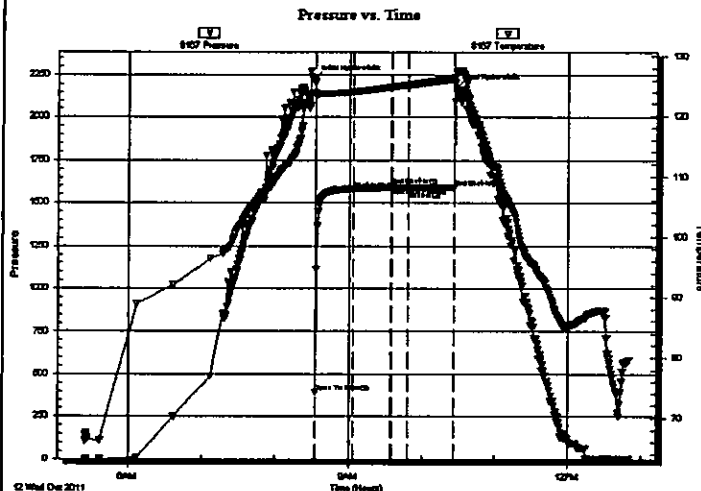
Time Off Btm: **2011.10.12 @ 10:27:34**

**TEST COMMENT:** IF:Weak blow . 1/2".

IS:No blow .

FF:No blow . (few surface bubbles)

FS:No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.14	123.91	Initial Hydro-static
2	394.30	123.50	Open To Flow (1)
33	1581.13	124.03	Shut-In(1)
64	1601.34	124.85	End Shut-In(1)
64	1590.08	124.85	Open To Flow (2)
78	1566.71	125.24	Shut-In(2)
115	1591.28	126.30	End Shut-In(2)
117	2175.24	127.36	Final Hydro-static

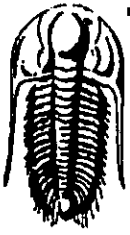
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM >1% $\alpha$ /clean oil@top of tool	0.02

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44005

**DST#: 3**

ATTN: Jon F Messenger

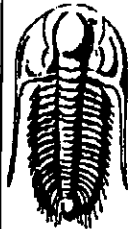
Test Start: 2011.10.12 @ 05:25:04

### Tool Information

Drill Pipe:	Length: 4301.00 ft	Diameter: 3.80 inches	Volume: 60.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 71000.00 lb
		Total Volume: 61.38 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4517.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	26.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4498.00	
Shut in tool	5.00			4503.00	
HMV	5.00			4508.00	
Packer	4.00			4512.00	20.00 Bottom Of Top Packer
Packer	5.00			4517.00	
Stubb	1.00			4518.00	
Recorder	0.00	8167	Inside	4518.00	
Recorder	0.00	8370	Outside	4518.00	
Bullnose	5.00			4523.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>26.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Messenger Petroleum Inc.

29-29s-9w Kingman,KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44005

DST#: 3

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 05:25:04

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.57 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 9000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM >1%/clean oil@top of tool	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

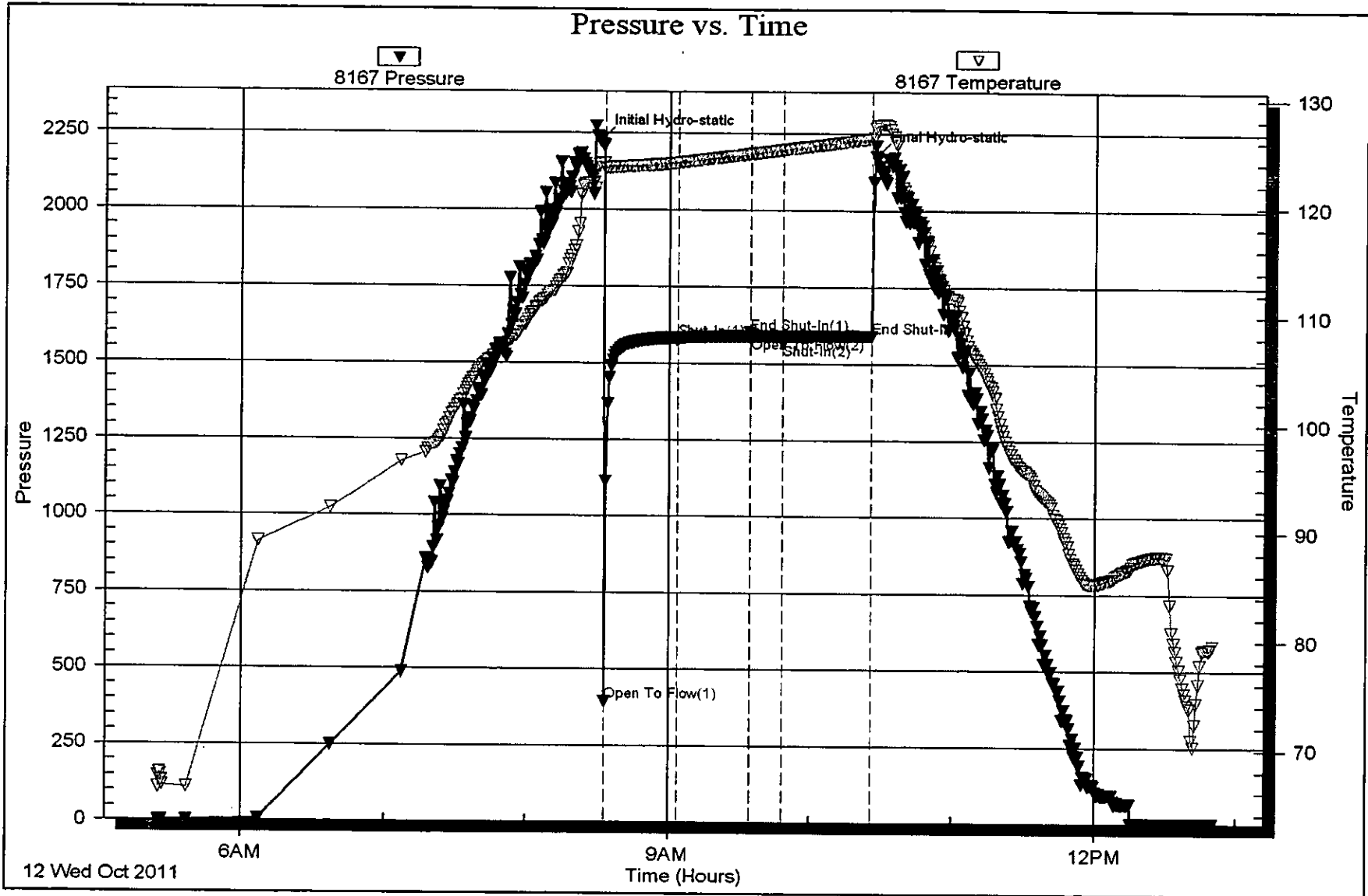
Num Gas Bombs: 0

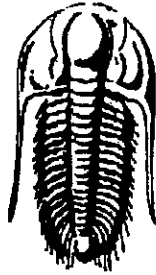
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon F Messenger

**Goetz 'P' #1**

**29-29s-9w Kingman,KS**

Start Date: 2011.10.12 @ 13:59:44

End Date: 2011.10.12 @ 22:05:29

Job Ticket #: 44006                      DST #: 4

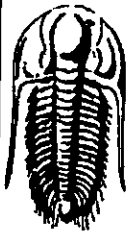
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 15:12:16

Messenger Petroleum Inc.    29-29s-9w Kingman,KS    Goetz 'P' #1    DST # 4    Simpson    2011.10.12



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Messenger Petroleum Inc.

29-29s-9w Kingman, KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44006

DST#: 4

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 13:59:44

### GENERAL INFORMATION:

Formation: **Simpson**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 17:55:14

Time Test Ended: 22:05:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Revoteaux

Unit No: 56

Interval: **4517.00 ft (KB) To 4523.00 ft (KB) (TVD)**

Total Depth: **4523.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **1695.00 ft (KB)**

**1684.00 ft (CF)**

KB to GR/CF: **11.00 ft**

Serial #: **8167**

Inside

Press@RunDepth: **2019.18 psig @ 4518.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.10.12**

End Date: **2011.10.12**

Last Calib.: **2011.10.12**

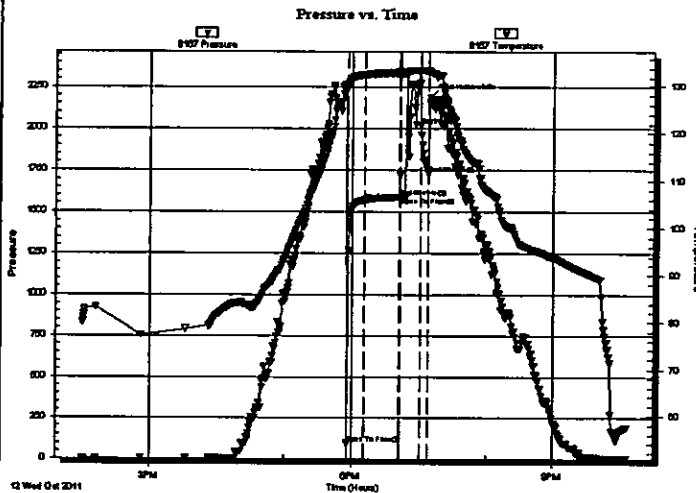
Start Time: **13:59:49**

End Time: **22:05:28**

Time On Btm: **2011.10.12 @ 17:51:14**

Time Off Btm: **2011.10.12 @ 19:09:14**

TEST COMMENT: IF:Weak blow . 1/2 - 3/4" decreasing.  
IS:No blow .  
FF:No blow . Flushed tool 3 times during FFP. No blow .  
FSI:No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.66	126.84	Initial Hydro-static
4	93.78	129.53	Open To Flow (1)
20	1564.02	132.57	Shut-In(1)
51	1585.97	133.14	End Shut-In(1)
52	1587.33	133.15	Open To Flow (2)
70	2019.18	133.52	Shut-In(2)
77	1725.86	133.47	End Shut-In(2)
78	2187.38	133.11	Final Hydro-static

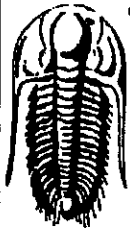
### Recovery

Length (ft)	Description	Volume (bbl)
2.00	SOCM 4%o 96% m / Clean oil @ top of tool	0.01

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44006

**DST#: 4**

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 13:59:44

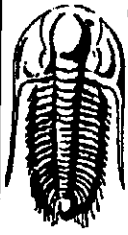
**Tool Information**

Drill Pipe:	Length: 4301.00 ft	Diameter: 3.80 inches	Volume: 60.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 61.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4517.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	26.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4498.00	
Shut in tool	5.00			4503.00	
HW	5.00			4508.00	
Packer	4.00			4512.00	20.00 Bottom Of Top Packer
Packer	5.00			4517.00	
Stubb	1.00			4518.00	
Recorder	0.00	8167	Inside	4518.00	
Recorder	0.00	8370	Outside	4518.00	
Bullnose	5.00			4523.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>26.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Messenger Petroleum Inc.

**29-29s-9w Kingman,KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44006

**DST#: 4**

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 13:59:44

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 68.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
2.00	SOCM 4%o 96%m/Clean oil@top of tool	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

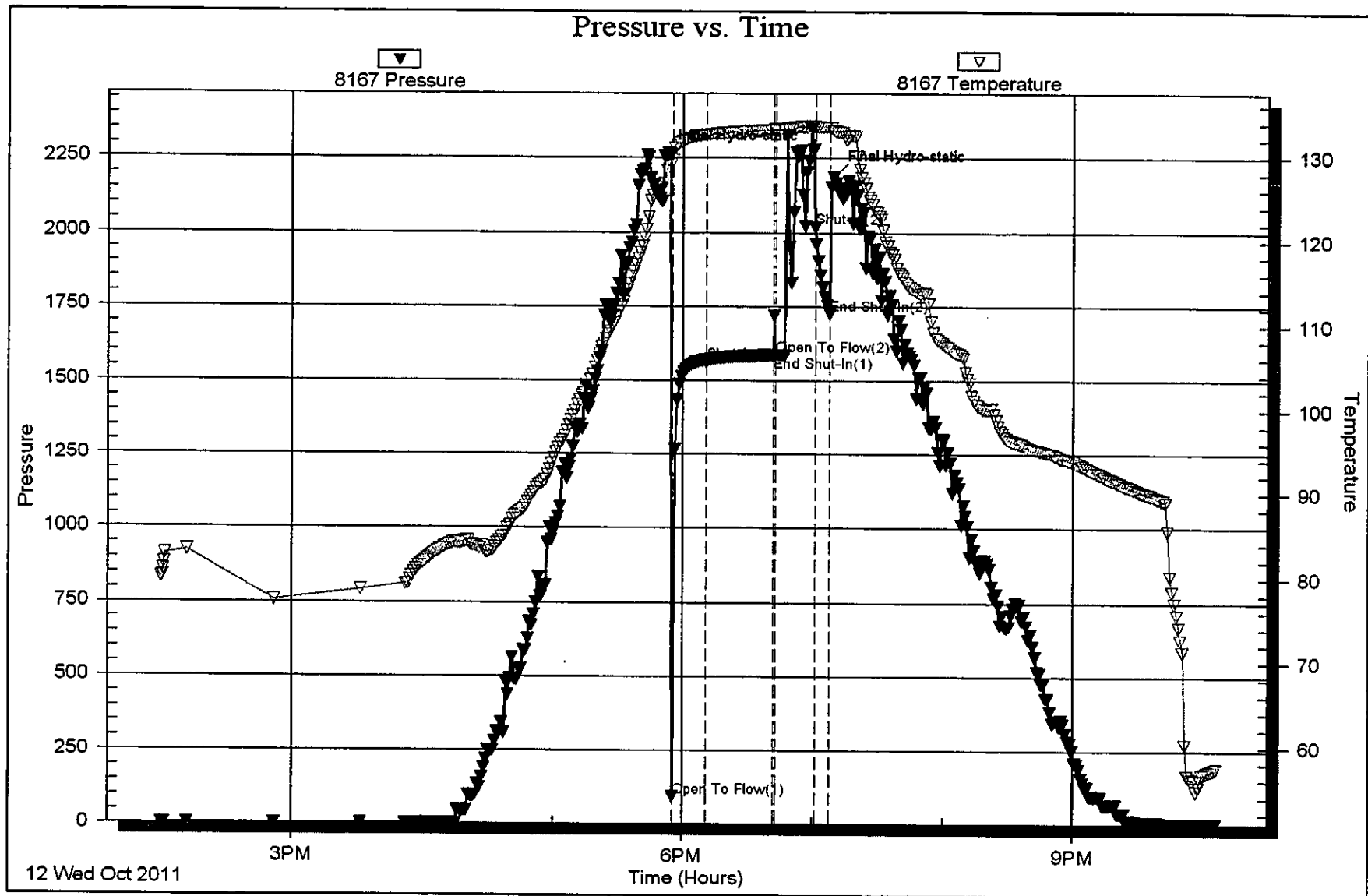
Recovery Comments:

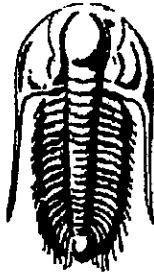
Serial #: 8167

Inside Messenger Petroleum Inc.

Goetz 'P' #1

DST Test Number: 4





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

525 S. Main  
Kingman, KS 67068

ATTN: Jon F Messenger

**Goetz 'P' #1**

**29-29s-9w Kingman,KS**

Start Date: 2011.10.12 @ 22:50:08

End Date: 2011.10.13 @ 05:53:53

Job Ticket #: 44007                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 15:12:36

Messenger Petroleum Inc.

29-29s-9w Kingman,KS

Goetz 'P' #1

DST # 5

Simpson

2011.10.12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

29-29s-9w Kingman, KS

525 S. Main  
Kingman, KS 67068

Goetz 'P' #1

Job Ticket: 44007

DST#: 5

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 22:50:08

## GENERAL INFORMATION:

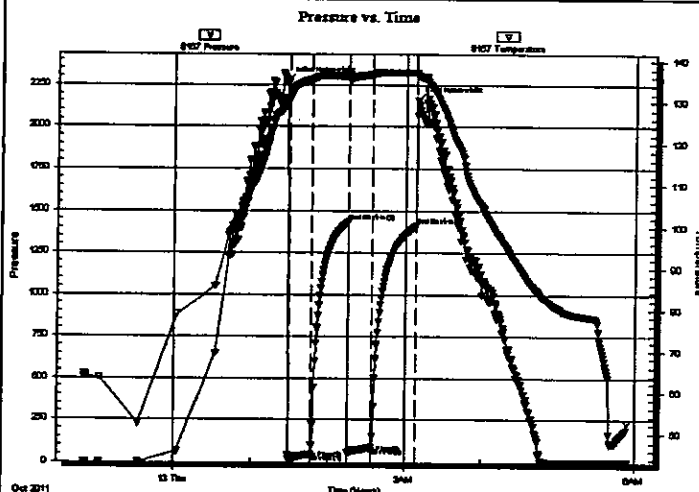
Formation: **Simpson**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 01:29:38  
 Time Test Ended: 05:53:53  
 Interval: **4517.00 ft (KB) To 4523.00 ft (KB) (TVD)**  
 Total Depth: **4436.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Gary Fevoteaux**  
 Unit No: **56**  
 Reference Elevations: **1695.00 ft (KB)**  
**1684.00 ft (CF)**  
 KB to GR/CF: **11.00 ft**

## Serial #: 8167

Inside

Press@RunDepth: **90.09 psig @ 4518.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.10.12** End Date: **2011.10.13** Last Calib.: **2011.10.13**  
 Start Time: **22:50:13** End Time: **05:53:52** Time On Btm: **2011.10.13 @ 01:27:38**  
 Time Off Btm: **2011.10.13 @ 03:09:23**

TEST COMMENT: IF: Strong blow. B.O.B. in 3 mins.  
 IS: Weak blow. 1 - 1 1/2".  
 FF: Fair blow. Increase to 11".  
 FS: Weak blow. 1/2 - 1".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.36	131.06	Initial Hydro-static
2	19.89	131.06	Open To Flow (1)
19	51.42	135.59	Shut-In(1)
48	1434.21	136.38	End Shut-In(1)
48	58.64	135.89	Open To Flow (2)
66	90.09	136.73	Shut-In(2)
101	1409.71	137.19	End Shut-In(2)
102	2158.56	136.55	Final Hydro-static

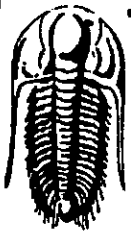
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCMV 4% o 10% m 86% w /	0.59
35.00	W&OCM 23% w 28% o 49% m	0.17
0.00	785 ft. of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44007

**DST#: 5**

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 22:50:08

### Tool Information

Drill Pipe:	Length: 4301.00 ft	Diameter: 3.80 inches	Volume: 60.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 61.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4517.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	26.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4498.00	
Shut in tool	5.00			4503.00	
HMV	5.00			4508.00	
Packer	4.00			4512.00	20.00 Bottom Of Top Packer
Packer	5.00			4517.00	
Stubb	1.00			4518.00	
Recorder	0.00	8167	Inside	4518.00	
Recorder	0.00	8370	Outside	4518.00	
Bullnose	5.00			4523.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>26.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum Inc.

**29-29s-9w Kingman, KS**

525 S. Main  
Kingman, KS 67068

**Goetz 'P' #1**

Job Ticket: 44007

**DST#: 5**

ATTN: Jon F Messenger

Test Start: 2011.10.12 @ 22:50:08

### 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:

68000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OCMV 4% o 10% m 86% w /	0.590
35.00	W&OCM 23% w 28% o 49% m	0.172
0.00	785 ft. of GIP	0.000

Total Length: 155.00 ft      Total Volume: 0.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .13ohms@63degF

Serial #: 8167

Inside Messenger Petroleum Inc.

Goetz P #1

DST Test Number: 5

