

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
October 2008  
Form Must Be Typed

ORIGINAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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 Company

Wellsite Geologist: Jon F. Messenger

Purchaser: Sunoco

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     SWD     SIOW
- Gas     ENHR     SIGW
- CM (Coal Bed Methane)     Temp. Abd.
- 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.     Conv. to SWD

Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled    Docket No.: \_\_\_\_\_

Dual Completion    Docket No.: \_\_\_\_\_

Other (SWD or Enhr.?)    Docket No.: \_\_\_\_\_

12-01-2009    12-10-2009    01-11-2010

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

API No. 15 - 095-22199-0000

Spot Description: \_\_\_\_\_

NW SE SW Sec. 11 Twp. 29 S. R. 9  East  West

495 Feet from  North /  South Line of Section

2145 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County: Kingman

Lease Name: Schwartz Well #: 1

Field Name: Willowdale (Revival)

Producing Formation: Viola

Elevation: Ground: 1696 Kelly Bushing: 1705

Total Depth: 4515 Plug Back Total Depth: 4488

Amount of Surface Pipe Set and Cemented at: 222 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 222

feet depth to: surface w/ 220 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 34,000 ppm Fluid volume: 900 bbls

Dewatering method used: settlement

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: Messenger Petroleum, Inc.

Lease Name: Nicholas License No.: 4706

Quarter NE Sec. 20 Twp. 30 S. R. 8  East  West

County: Kingman Docket No.: 27434

**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: [Signature]

Title: President Date: 04-27-2010

Subscribed and sworn to before me this 27<sup>th</sup> day of April

20 10

Notary Public: Nacora A. Dick

Date Commission Expires: October 11, 2011

**NACORA A. DICK**  
Notary Public - State of Kansas  
My Appt. Expires 10/11/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  No  Date: 5/3/10 - Dg

Wireline Log Received **RECEIVED**

Geologist Report Received **KANSAS CORPORATION COMMISSION**

UIC Distribution 3/15/11 **APR 30 2010**

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Messenger Petroleum, Inc. Lease Name: Schwartz Well #: 1  
 Sec. 11 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3354	-1649
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3557	-1852
List All E. Logs Run:		Hertha	3948	-2243
<b>CNL/CDL , DIL , MEL</b>		Mississippi	4204	-2499
		Kinderhook	4302	-2597
		Viola	4481	-2776
		LTD	4515	-2810

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"	23#	222	60/40 poz	220 sx	2%gel,3%CC,1/4#CF
production	7-7/8"	5-1/2"	15.50#	4510	AA-2	150 sx	.3%CFR,.3%FLA,10%
						salt, .75%	GB,5# gil w/ 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				

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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)
4	4482-4486	500 gal 15% MCA

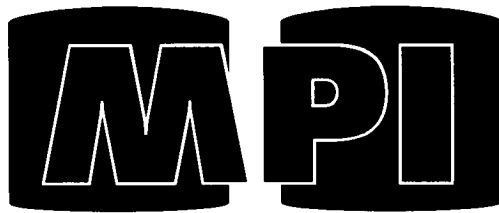
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APR 30 2010

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3995</u> Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--

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Date of First, Resumed Production, SWD or Enhr. <u>04-06-2010</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>422</u> Gas Mcf <u>38</u> Water Bbls. <u>768</u> Gas-Oil Ratio <u>90:1</u> Gravity <u>39.5</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Viola 4482-4486</u>
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**MESSENGER PETROLEUM, INC.**

To: Kansas Corporation Commission  
130 S. Market, Rm 2078  
Wichita, KS 67202-3802

04-27-2010

Attn: Mr. Jim Hemmen

Re: Request to Hold ALL Well Data Confidential  
**Govert #1**                      **AND**                      **Schwartz #1**  
NW 14-29s-9w                      SW 11-29s-9w  
Kingman Co., KS                      Kingman Co., KS

Dear Mr. Hemmen:

Please allow this letter to be a formal request by Messenger Petroleum, Inc to keep and hold ALL well information on the **Govert #1** and the **Schwartz #1** confidential.

Thank you for your time, consideration, and cooperation on this request. If you require any additional information, please contact me.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Jon F. Messenger', is written over a horizontal line.

Jon F. Messenger

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CONSERVATION DIVISION  
WICHITA, KS

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3907

Date	12-1-09	Sec.	11	Twp.	29	Range	9	County	Kingman	State	Ks	On Location		Finish	10:00 PM
Lease	Schwartz		Well No.	1		Location									
Contractor	STERLINS		Dels #4		Owner										
Type Job	Surface		To Quality Oilwell Cementing, 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.	225		Charge To									
Csg.	8 5/8 23		Depth	220		Messenger Pct.									
Tbg. Size			Depth	Street											
Tool			Depth	City State											
Cement Left in Csg.			Shoe Joint	15		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace	13.2		CEMENT 1/4 # C.I.F.									

EQUIPMENT			
Pumptrk	5	No.	Cementor Helper
Bulktrk	2	No.	Driver
Bulktrk	Pu	No.	Driver

Amount Ordered	220 x 6 1/4 Poz 2 7/8 CL 3 7/8 CL		
Common	132		
Poz. Mix	48		
Gel.	4		
Calcium	7		

Remarks:  
Run 5 d's 8 5/8 23"  
Mix & Pump 220 x 6 1/4 Poz  
2 7/8 CL 3 7/8 CL 1/4 # C.I.F.  
14.7 #/gal 1.25 ft3

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SHUT DOWN  
RELEASE Plug

Handling  
Mileage

Disp 13.2 Bbls total

FLOAT EQUIPMENT  
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Close Valve on Csg 200

Guide Shoe  
Centralizer  
Baskets  
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Good C.I.C. the JOBS

AFU Inserts  
1 8 5/8 Wooden Plug

Circ out to PIT

Thanks  
Job

Pumptrk Charge Surface  
Mileage 30

Signature  
Joe & Reck  
PLEASE CALL AGAIN

Tax  
Discount  
Total Charge



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

FIELD SERVICE TICKET  
1718 1034 A

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

DATE OF JOB <u>12-11-09</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>Wichita State</u>		LEASE <u>Wichita State</u> WELL NO. <u>1</u>								
ADDRESS _____		COUNTY <u>Lincoln</u> STATE <u>KS</u>								
CITY _____ STATE _____		SERVICE CREW <u>Wichita State</u>								
AUTHORIZED BY _____		JOB TYPE: <u>CDW - 1/2" Low Stg</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>11902/12000</u>	<u>1</u>	<u>h</u>					<u>12-11-09</u>			
<u>11902/12000</u>	<u>1</u>									
						ARRIVED AT JOB				
						START OPERATION				<u>1:30</u>
						FINISH OPERATION				<u>10:30</u>
						RELEASED	<u>12-11-09</u>			<u>17:00</u>
						MILES FROM STATION TO WELL				<u>30</u>

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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 cat	sk	150		2,550 00
CP 103	Gal/2002 cat	sk	75		900 00
CC 102	1/2" pipe	lb	35		140 00
CC 111	5/8" pipe	lb	780		390 00
CC 127	2" A-322	lb	71		532 50
CC 200	1/2" h	gal	5		175 00
CC 151	man fluid	gal	500		430 00
CP 103	Fed Rubbr ply 1/2"	sq	1		105 00
CP 251	Rex grade sh...	sq	1		250 00
CP 111	Fed 1/2"	sq	1		215 00
CP 1051	Johnson	sq	5		990 00
CP 2002	Drill bits - Rotary	ct	28		1,200 00
CP 101	1/2" pipe	lb	60		420 00
CP 113	1/2" pipe	lb	307		490 40
CP 100	1/2" pipe	lb	30		127 50
CP 241	1/2" pipe - man chg	sk	225		315 00
CP 2002	Drill bits - rotary	ct	1		175 00
CP 200	Drill bits - rotary	ct	1		2,520 00
CP 200	Drill bits - rotary	ct	1		250 00
					200 00
SUB TOTAL					

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CHEMICAL / ACID DATA:


SERVICE & EQUIPMENT %TAX ON \$  
MATERIALS %TAX ON \$

TOTAL

6,110 00  
PLS

SERVICE REPRESENTATIVE \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE

ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

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

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Hwy 54 / 2nd 9 Blk. E S 1/2 E N 170



energy services, L.P.

**TREATMENT REPORT**

Customer <i>MESSENGER Petro.</i>		Lease No.		Date	
Lease <i>Schwartz</i>		Well # <i>1</i>		<i>12-11-09</i>	
Field Order # <i>1084</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>	Depth <i>4511</i>	County <i>KIDGMAN</i>	State <i>KS</i>
Type Job <i>CNW 5 1/2 Long string</i>			Formation	Legal Description <i>11-29-9</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>4511</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>107</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>PC</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4487</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative \_\_\_\_\_ Station Manager *DAVE SCOTT* Treater *Robert Sullivan*

Service Units	<i>19867</i>	<i>19903</i>	<i>19905</i>	<i>19832</i>	<i>20121010</i>				
Driver Names	<i>Sullivan</i>	<i>Metol</i>		<i>Perico</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1000</i>					<i>on loc. Softy meety</i>
					<i>Run 112 STS 5 1/2 # 15.5 CSG</i>
					<i>Shoe ST. 22'09</i>
<i>1345</i>					<i>CSG on Bottom</i>
<i>1400</i>					<i>Hook Rig to Circ CSG</i>
<i>1530</i>	<i>400</i>		<i>5</i>	<i>5</i>	<i>1st spacer</i>
			<i>12</i>		<i>1st mud flush</i>
			<i>5</i>	<i>5</i>	<i>1st spacer</i>
			<i>6</i>	<i>5</i>	<i>mix scavenger cement 25sk 6 1/4 poe</i>
			<i>37</i>	<i>5</i>	<i>mix AA-2 cement</i>
<i>1555</i>					<i>Shut down and wash Pump to Line</i>
					<i>Release Plug</i>
<i>1600</i>	<i>300</i>			<i>6</i>	<i>1st Disp</i>
	<i>500</i>		<i>82</i>		<i>1st PS</i>
	<i>800</i>			<i>3.5</i>	<i>1st PS</i>
<i>1615</i>	<i>1800</i>		<i>107</i>	<i>3.5</i>	<i>Plug down Hunt Hold</i>
			<i>6</i>		<i>Plug R.H w/ 30sk</i>
			<i>5</i>		<i>Plug m.H w/ 20</i>
					<i>Job complete</i>

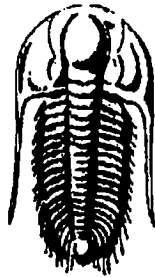
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APR 30 2010

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Messenger Petroleum Inc.**

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**11 29s 9w Kingman KS**

**Schwartz #1**

Start Date: 2009.12.03 @ 23:32:38

End Date: 2009.12.04 @ 05:50:03

Job Ticket #: 35134                      DST #: 1

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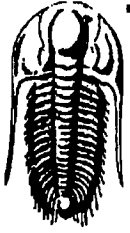
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WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Messenger Petroleum Inc.  
Schwartz #1  
11 29s 9w Kingman KS  
DST # 1  
Indian Cave  
2009.12.03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**Schwartz #1**

**11 29s 9w Kingman KS**

Job Ticket: 35134

DST#: 1

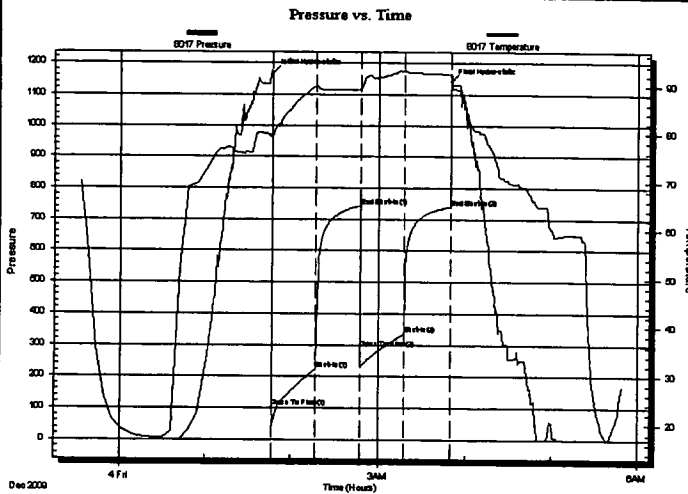
Test Start: 2009.12.03 @ 23:32:38

## GENERAL INFORMATION:

Formation: **Indian Cave**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: **01:47:35**  
 Time Test Ended: **05:50:03**  
 Interval: **2384.00 ft (KB) To 2412.00 ft (KB) (TVD)**  
 Total Depth: **2412.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Kevin Taylor**  
 Unit No: **31**  
 Reference Elevations: **1703.00 ft (KB)**  
**1696.00 ft (CF)**  
**KB to GR/CF: 7.00 ft**

**Serial #: 8017** **Inside**  
 Press@RunDepth: **337.29 psig @ 2385.00 ft (KB)**  
 Start Date: **2009.12.03** End Date: **2009.12.04** Capacity: **8000.00 psig**  
 Start Time: **23:32:43** End Time: **05:50:04** Last Calib.: **2009.12.04**  
 Time On Btrr: **2009.12.04 @ 01:47:30**  
 Time Off Btrr: **2009.12.04 @ 03:49:33**

**TEST COMMENT:** I.F. Strong Blow B.O.B. 2 1/2 Mn  
 I.S.I. Bled Off 5 Mn No Blow  
 F.F. Strong Blow B.O.B. 6 Mn  
 F.S.I. Bled Off 5 Mn Fair BLow Built To 5" In 15 Mn Never Died.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1168.02	80.03	Initial Hydro-static
1	102.52	79.42	Open To Flow (1)
30	223.58	89.92	Shut-In(1)
60	741.82	89.10	End Shut-In(1)
60	289.21	88.85	Open To Flow(2)
90	337.29	93.16	Shut-In(2)
122	739.39	92.36	End Shut-In(2)
123	1141.27	92.63	Final Hydro-static

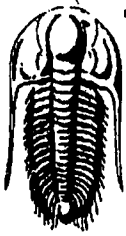
## Recovery

Length (ft)	Description	Volume (bbl)
61.00	SMCW TR G 90%W 10%M	0.45
61.00	SMCW TR G 95%W 5%M	0.45
494.00	FLUID REVERSED	6.54
63.00	MCW TR G 45%W 55%M	0.92
63.00	MCW TR G 35%W 35%M	0.92

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35134

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2009.12.03 @ 23:32:38

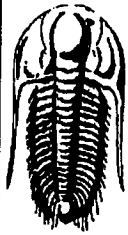
### Tool Information

Drill Pipe:	Length: 2165.00 ft	Diameter: 3.88 inches	Volume: 31.66 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.75 inches	Volume: 1.59 bbl	Weight to Pull Loose: 56000.00 lb
		<b>Total Volume:</b>	<b>33.25 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2384.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2369.00	
Hydraulic tool	5.00			2374.00	
Packer	5.00			2379.00	20.00 Bottom Of Top Packer
Packer	5.00			2384.00	
Stubb	1.00			2385.00	
Recorder	0.00	8358	inside	2385.00	
Recorder	0.00	8017	inside	2385.00	
Perforations	24.00			2409.00	
Bullnose	3.00			2412.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35134

**DST#: 1**

ATTN: Jon Messenger

Test Start: 2009.12.03 @ 23:32:38

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.71 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 90000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	SMCW TR G 90%W 10%M	0.448
61.00	SMCW TR G 95%W 5%M	0.448
494.00	FLUID REVERSED	6.540
63.00	MCW TR G 45%W 55%M	0.921
63.00	MCW TR G 35%W 35%M	0.921

Total Length: 742.00 ft      Total Volume: 9.278 bbl

Num Fluid Samples: 0

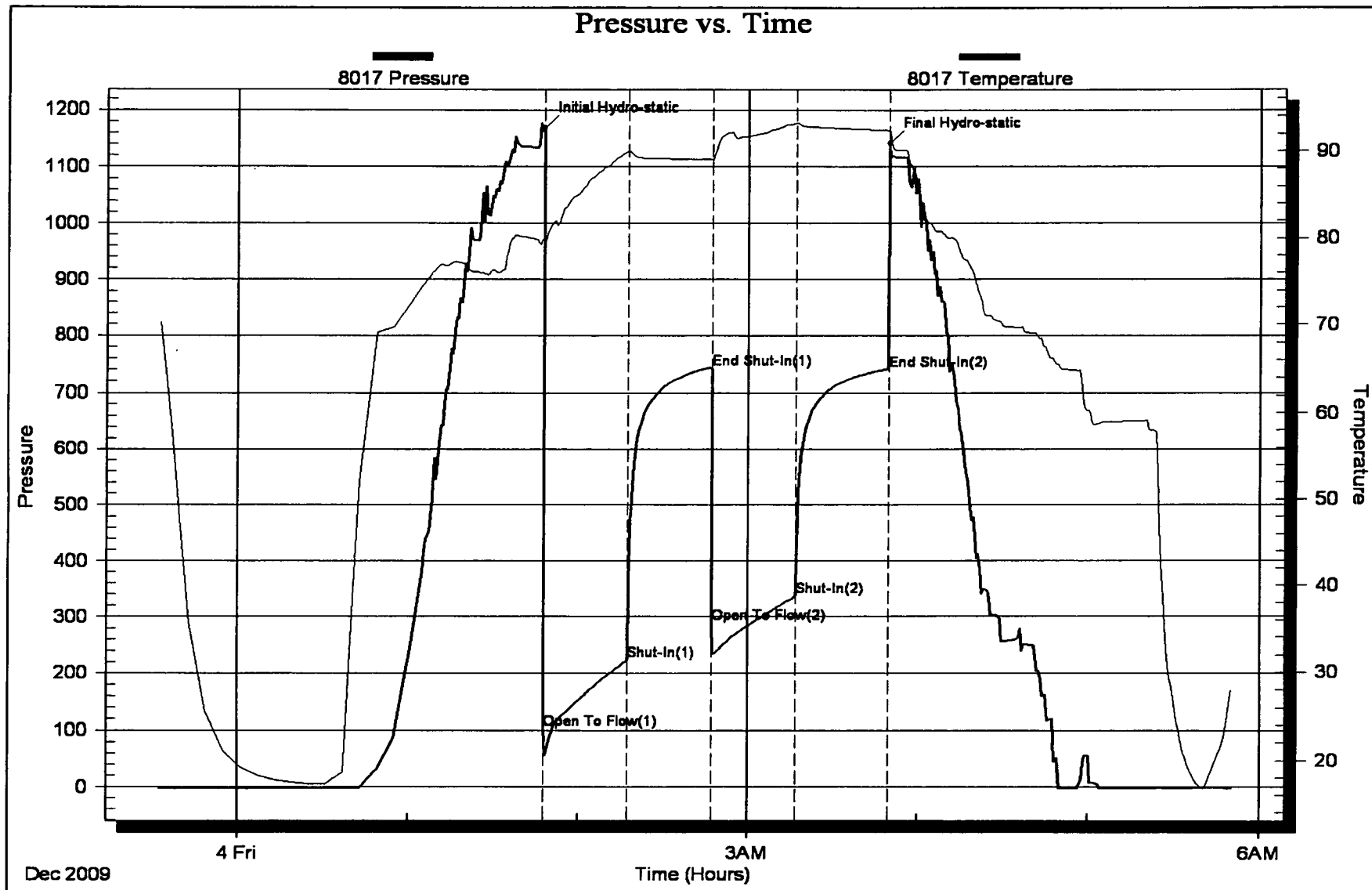
Num Gas Bombs: 0

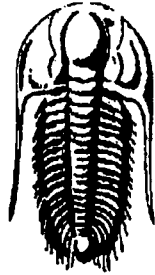
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**11 29s 9w Kingman KS**

**Schwartz #1**

Start Date: 2009.12.06 @ 16:40:33

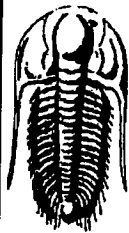
End Date: 2009.12.07 @ 02:47:43

Job Ticket #: 35135                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**Schwartz #1**

**11 29s 9w Kingman KS**

Job Ticket: 35135

**DST#: 2**

Test Start: 2009.12.06 @ 16:40:33

## GENERAL INFORMATION:

Formation: **Sw ope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:56:03

Time Test Ended: 02:47:43

Interval: **3878.00 ft (KB) To 3920.00 ft (KB) (TVD)**

Total Depth: 3920.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Kevin Taylor

Unit No: 31

Reference Elevations: 1703.00 ft (KB)

1696.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8017**

**Inside**

Press@RunDepth: 406.04 psig @ 3879.00 ft (KB)

Start Date: 2009.12.06

End Date:

2009.12.07

Start Time: 16:40:38

End Time:

02:47:42

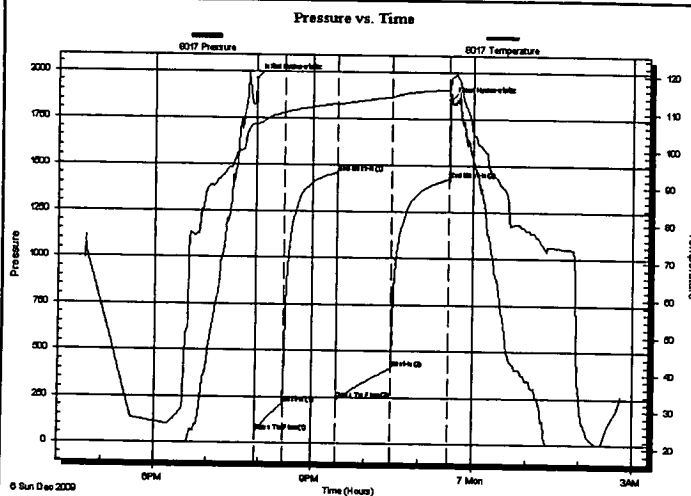
Capacity: 8000.00 psig

Last Calib.: 2009.12.07

Time On Btm: 2009.12.06 @ 19:55:53

Time Off Btm: 2009.12.06 @ 23:34:03

**TEST COMMENT:** I.F. Strong Blow B.O.B. 2 Mn  
I.S.I. Bled Off 5 Mn B.O.B. 15 Mn Never Died  
F.F. Strong Blow B.O.B. 4 Mn  
F.S.I. Bled Off 8 Mn Strong Blow B.O.B. 15 Mn Never Died



## PRESSURE SUMMARY

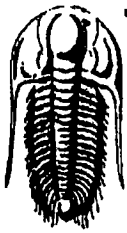
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.55	106.94	Initial Hydro-static
1	54.65	106.09	Open To Flow (1)
32	212.59	109.78	Shut-In(1)
92	1457.97	112.31	End Shut-In(1)
93	236.06	111.68	Open To Flow(2)
154	406.04	114.17	Shut-In(2)
218	1425.07	116.20	End Shut-In(2)
219	1849.51	116.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
247.00	CLN GSY WTR 10%G 80%W 10%M	2.04
379.00	OGCW 5%G 3%O 82%W 10%M	5.54
63.00	MGOCW 20%G 20%O 40%W 20%M	0.92
63.00	MGOCW 70%G 5%O 15%W 10%M	0.92
68.00	OGWCM 35%G 10%O 7%W 48%M	0.99

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35135

**DST#: 2**

ATTN: Jon Messenger

Test Start: 2009.12.06 @ 16:40:33

**Tool Information**

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.88 inches	Volume: 53.60 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.75 inches	Volume: 1.59 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume: 55.19 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3878.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3863.00	
Hydraulic tool	5.00			3868.00	
Packer	5.00			3873.00	20.00 Bottom Of Top Packer
Packer	5.00			3878.00	
Stubb	1.00			3879.00	
Recorder	0.00	8358	Inside	3879.00	
Recorder	0.00	8017	Inside	3879.00	
Perforations	38.00			3917.00	
Bullnose	3.00			3920.00	42.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>62.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35135

**DST#: 2**

ATTN: Jon Messenger

Test Start: 2009.12.06 @ 16:40:33

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.53 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

100000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
247.00	CLN GSY WTR 10%G 80%W 10%M	2.040
379.00	OGCW 5%G 3%O 82%W 10%M	5.543
63.00	MGOCW 20%G 20%O 40%W 20%M	0.921
63.00	MGOCW 70%G 5%O 15%W 10%M	0.921
68.00	OGWCM 35%G 10%O 7%W 48%M	0.994

Total Length: 820.00 ft

Total Volume: 10.419 bbl

Num Fluid Samples: 0

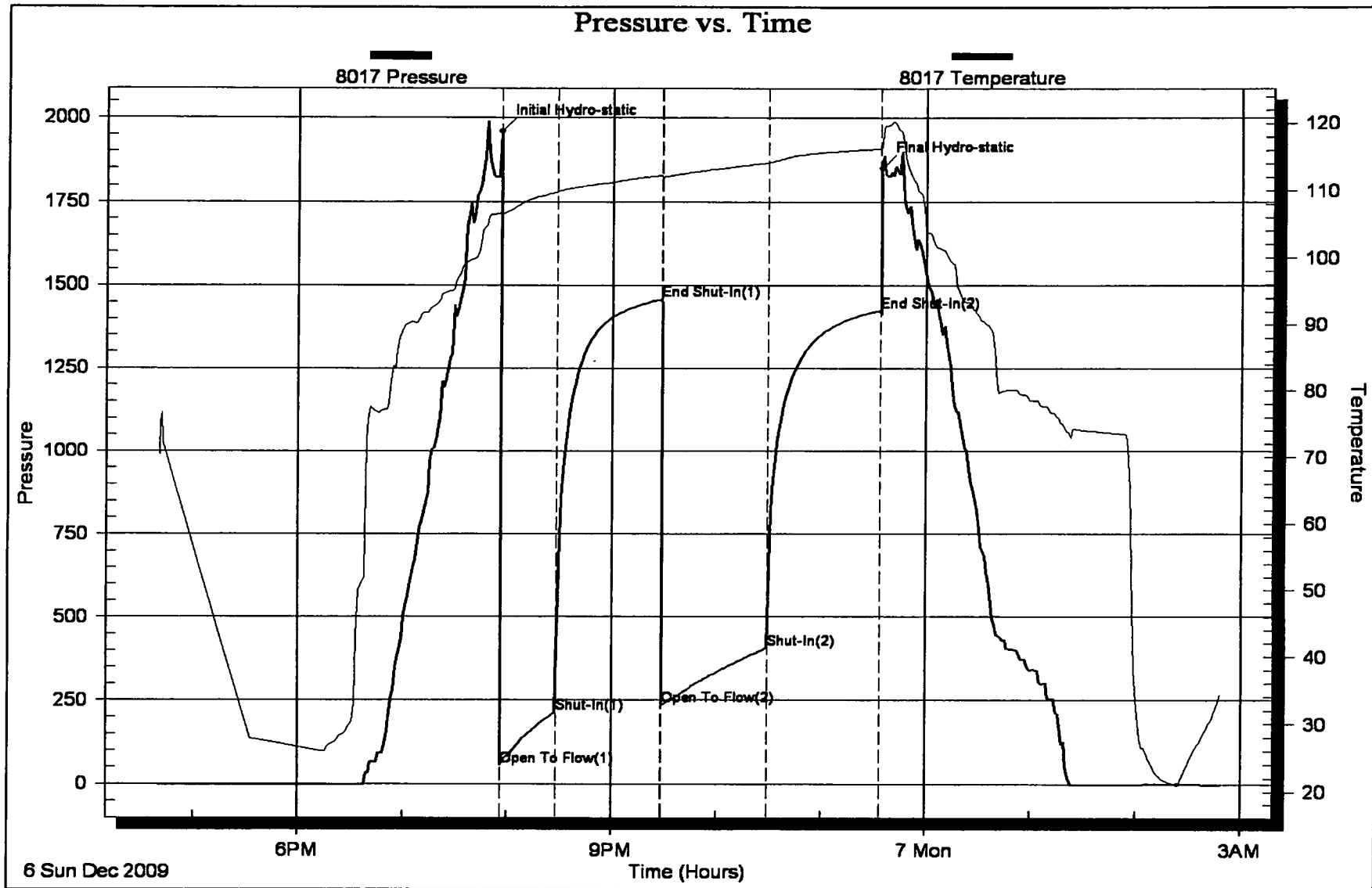
Num Gas Bombs: 0

Serial #:

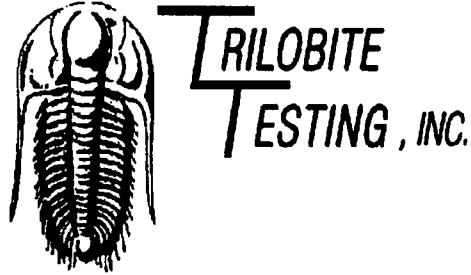
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**11 29s 9w Kingman KS**

**Schwartz #1**

Start Date: 2009.12.07 @ 09:33:22

End Date: 2009.12.07 @ 18:02:22

Job Ticket #: 35136                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Messenger Petroleum Inc.

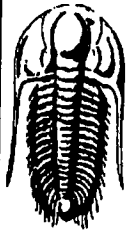
Schwartz #1

11 29s 9w Kingman KS

DST # 3

Hertha

2009.12.07



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**Schwartz #1**

**11 29s 9w Kingman KS**

Job Ticket: 35136

**DST#: 3**

Test Start: 2009.12.07 @ 09:33:22

## GENERAL INFORMATION:

Formation: **Hertha**

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

Time Tool Opened: 12:13:52

Time Test Ended: 18:02:22

Test Type: **Conventional Bottom Hole**

Tester: **Kevin Taylor**

Unit No: **31**

Interval: **3942.00 ft (KB) To 3956.00 ft (KB) (TVD)**

Total Depth: **3956.00 ft (KB) (TVD)**

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

Reference Elevations: **1703.00 ft (KB)**

**1696.00 ft (CF)**

KB to GR/CF: **7.00 ft**

**Serial #: 8017** Inside

Press@RunDepth: **357.49 psig @ 3943.00 ft (KB)**

Start Date: **2009.12.07**

End Date:

**2009.12.07**

Capacity: **8000.00 psig**

Last Calib.: **2009.12.07**

Start Time: **09:33:27**

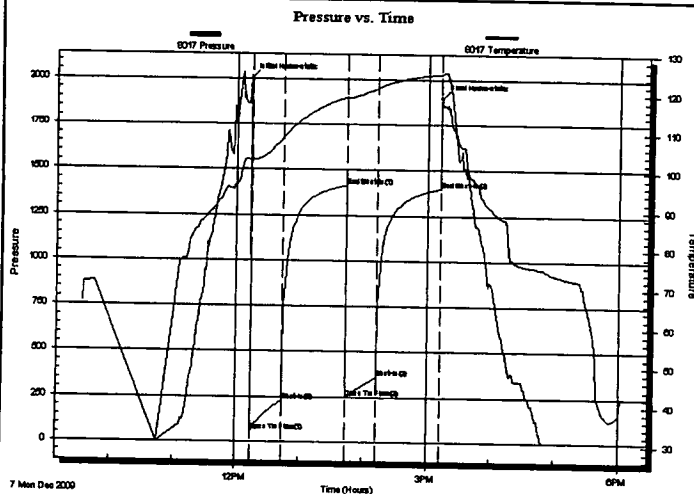
End Time:

**18:02:21**

Time On Btm: **2009.12.07 @ 12:13:32**

Time Off Btm: **2009.12.07 @ 15:13:42**

**TEST COMMENT:** I.F. Strong Blow B.O.B. 4 Mn  
I.S.I. Bled Off 10 Mn Weak Blow Built To 2 3/4" In 40 Mn Never Died  
F.F. Strong BLow B.O.B. 12 Mn  
F.S.I. Blerf Off 10 Mn Weak Blow Built To 1" In 45 Mn Never Die



## PRESSURE SUMMARY

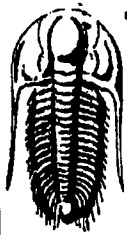
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.17	103.14	Initial Hydro-static
1	58.49	102.54	Open To Flow (1)
30	230.17	108.44	Shut-in(1)
90	1413.51	119.10	End Shut-in(1)
91	248.73	118.67	Open To Flow (2)
120	357.49	121.36	Shut-in(2)
180	1397.50	125.02	End Shut-in(2)
181	1899.10	125.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
405.00	CLN GSY WTR 2%G 97%W 1%M	4.35
189.00	SOGMCW 5%G SCUM O 70%W 25%M	2.76
63.00	OGWCM 25%G 15%O 25%W 50%M	0.92
63.00	OGWCM 25%G 20%O 10%W 45%M	0.92
30.00	OGWCM 15%G 20%O 15%W 50%M	0.44

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35136

**DST#: 3**

ATTN: Jon Messenger

Test Start: 2009.12.07 @ 09:33:22

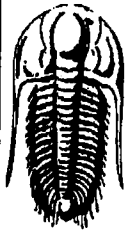
**Tool Information**

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.88 inches	Volume: 54.52 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.75 inches	Volume: 1.59 bbl	Weight to Pull Loose: 75000.00 lb
		<u>Total Volume:</u>	<u>56.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3942.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description                      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3927.00	
Hydraulic tool	5.00			3932.00	
Packer	5.00			3937.00	20.00            Bottom Of Top Packer
Packer	5.00			3942.00	
Stubb	1.00			3943.00	
Recorder	0.00	6769	inside	3943.00	
Recorder	0.00	8017	inside	3943.00	
Perforations	10.00			3953.00	
Bullnose	3.00			3956.00	14.00            Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>34.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35136

**DST#: 3**

ATTN: Jon Messenger

Test Start: 2009.12.07 @ 09:33:22

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.53 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 110000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
405.00	CLN GSY WTR 2%G 97%W 1%M	4.351
189.00	SOGMCW 5%G SCUM O 70%W 25%M	2.764
63.00	OGWCM 25%G 15%O 25%W 50%M	0.921
63.00	OGWCM 25%G 20%O 10%W 45%M	0.921
30.00	OGWCM 15%G 20%O 15%W 50%M	0.439

Total Length: 750.00 ft      Total Volume: 9.396 bbl

Num Fluid Samples: 0

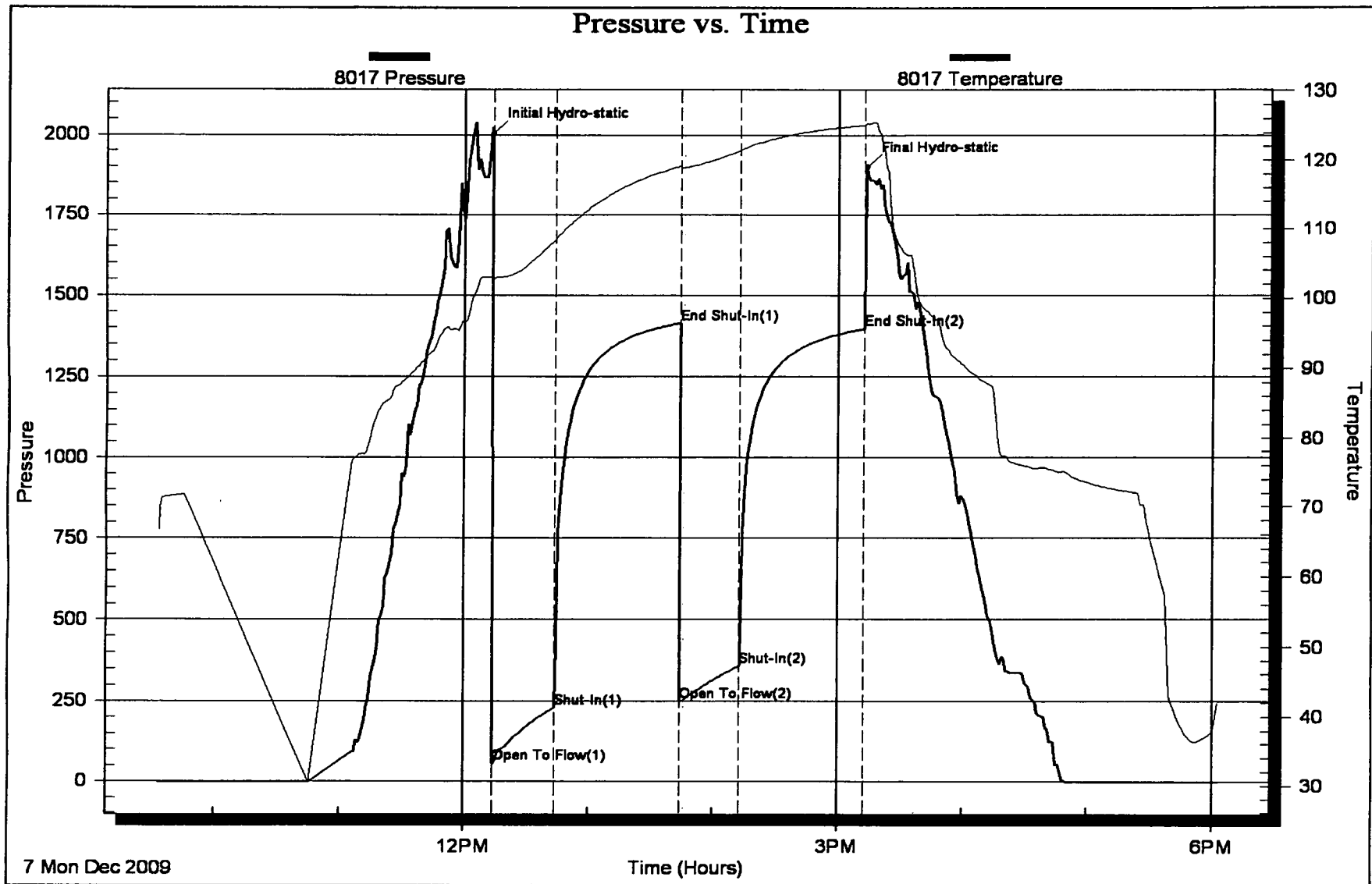
Num Gas Bombs: 0

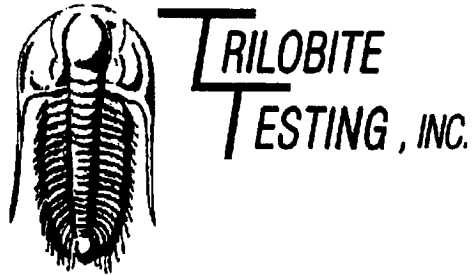
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**11 29s 9w Kingman KS**

**Schwartz #1**

Start Date: 2009.12.08 @ 16:04:25

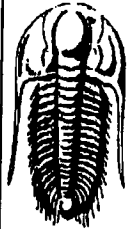
End Date: 2009.12.09 @ 02:18:14

Job Ticket #: 35137                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Messenger Petroleum Inc.

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**Schwartz #1**

**11 29s 9w Kingman KS**

Job Ticket: 35137

**DST#: 4**

Test Start: 2009.12.08 @ 16:04:25

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:04:05  
 Time Test Ended: 02:18:14

Test Type: Conventional Bottom Hole  
 Tester: Kevin Taylor  
 Unit No: 31

Interval: **4202.00 ft (KB) To 4216.00 ft (KB) (TVD)**

Total Depth: 4216.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1703.00 ft (KB)  
 1696.00 ft (CF)  
 KB to GRV/CF: 7.00 ft

**Serial #: 8017**

**Inside**

Press@RunDepth: 69.23 psig @ 4203.00 ft (KB)

Start Date: 2009.12.08

End Date:

2009.12.09

Capacity: 8000.00 psig

Last Calib.: 2009.12.09

Start Time: 16:04:30

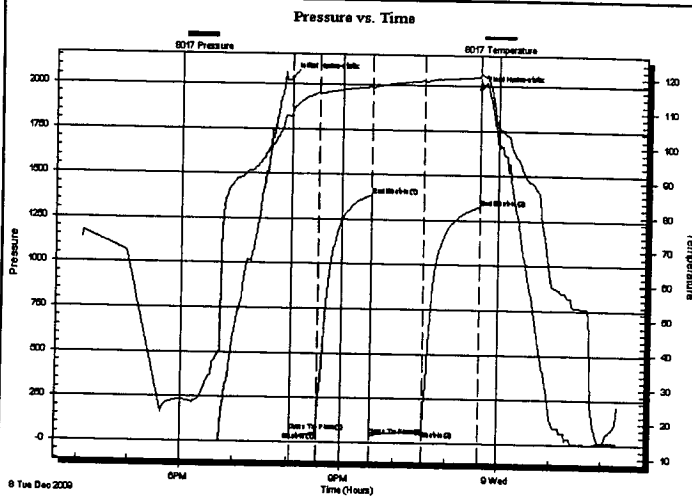
End Time:

02:18:15

Time On Btrc: 2009.12.08 @ 20:03:45

Time Off Btrc: 2009.12.08 @ 23:37:45

**TEST COMMENT:** I.F. Strong Blow B.O.B. 48 Sec  
 I.S.I. Bled Off 5 Min No Blow  
 F.F. Strong Blow B.O.B. 10 Sec (GTS 15 Mn TSTM)  
 F.S.I. Bled Off 8 Mn Strong Blow B.O.B. 35 Sec Never Died



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.09	109.07	Initial Hydro-static
1	59.23	109.09	Open To Flow (1)
30	50.98	115.24	Shut-In (1)
90	1383.20	117.16	End Shut-In (1)
90	37.21	116.62	Open To Flow (2)
150	69.23	119.19	Shut-In (2)
214	1324.67	120.31	End Shut-In (2)
214	1979.32	121.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOMCW 7%G 3%O 85%W 5%M	0.46
62.00	GOMCW 15%G 12%O 53%W 20%M	0.46
62.00	GOWCM 25%G 5%O 40%W 30%M	0.46
30.00	OGWCM 6%G 3%O 23%W 68%M	0.22

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35137

**DST#: 4**

ATTN: Jon Messenger

Test Start: 2009.12.08 @ 16:04:25

**Tool Information**

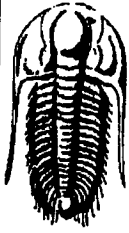
Drill Pipe:	Length: 3983.00 ft	Diameter: 3.88 inches	Volume: 58.25 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 40000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.75 inches	Volume: 1.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 59.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4202.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description                      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Shut In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Packer	5.00			4197.00	20.00            Bottom Of Top Packer
Packer	5.00			4202.00	
Stubb	1.00			4203.00	
Recorder	0.00	6769	inside	4203.00	
Recorder	0.00	8017	inside	4203.00	
Perforations	9.00			4212.00	
Bullnose	3.00			4215.00	13.00            Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35137

**DST#: 4**

ATTN: Jon Messenger

Test Start: 2009.12.08 @ 16:04:25

## 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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.34 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOMCW 7%G 3%O 85%W 5%M	0.455
62.00	GOMCW 15%G 12%O 53%W 20%M	0.455
62.00	GOWCM 25%G 5%O 40%W 30%M	0.455
30.00	OGWCM 6%G 3%O 23%W 68%M	0.220

Total Length: 216.00 ft      Total Volume: 1.585 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

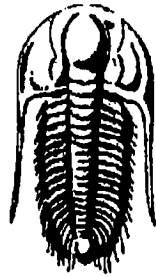
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum Inc.**

523 S Main  
Kingman KS 67068

ATTN: Jon Messenger

**11 29s 9w Kingman KS**

**Schwartz #1**

Start Date: 2009.12.10 @ 02:44:14

End Date: 2009.12.10 @ 13:41:24

Job Ticket #: 35138                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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Messenger Petroleum Inc.

Schwartz #1

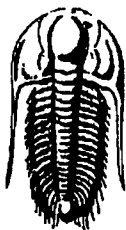
11 29s 9w Kingman KS

DST # 5

Viola

2009.12.10





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35138

**DST#: 5**

ATTN: Jon Messenger

Test Start: 2009.12.10 @ 02:44:14

## Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.88 inches	Volume: 62.45 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.75 inches	Volume: 1.59 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume: 64.04 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4480.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	27.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4465.00	
Hydraulic tool	5.00			4470.00	
Packer	5.00			4475.00	20.00 Bottom Of Top Packer
Packer	5.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6769	Inside	4481.00	
Recorder	0.00	8017	Inside	4481.00	
Perforations	3.00			4484.00	
Bullnose	3.00			4487.00	7.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35138

**DST#: 5**

ATTN: Jon Messenger

Test Start: 2009.12.10 @ 02:44:14

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 105000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
727.00	SMGCW 5%G 88%W 2%M	9.060
189.00	SOGMCW 4%G 1%O 90%W 5%M	2.764
477.00	CLN GSY OIL 5%G 95%O	6.976
477.00	SMGCO 4%G 94%O 2%M	6.976

Total Length: 1870.00 ft

Total Volume: 25.776 bbl

Num Fluid Samples: 0

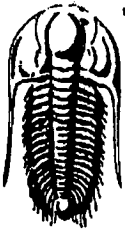
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Messenger Petroleum Inc.

**Schwartz #1**

523 S Main  
Kingman KS 67068

**11 29s 9w Kingman KS**

Job Ticket: 35138

DST#: 5

ATTN: Jon Messenger

Test Start: 2009.12.10 @ 02:44:14

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	20	0.13	1.50	5.95
1	20	0.13	1.50	5.95
1	30	0.13	2.50	6.33
2	10	0.13	2.50	6.33
2	30	0.13	2.50	6.33

