



KANSAS CORPORATION COMMISSION 1068874  
OIL & GAS CONSERVATION DIVISION

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3067  
Name: Molitor Oil, Inc.  
Address 1: 9517 SW 80TH AVE  
Address 2: \_\_\_\_\_  
City: SPIVEY State: KS Zip: 67142 + 9119  
Contact Person: MARK MOLITOR  
Phone: ( 620 ) 243-3543  
CONTRACTOR: License # 33902  
Name: Hardt Drilling LLC  
Wellsite Geologist: Max Lovely  
Purchaser: NCRA

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 #: \_\_\_\_\_

<u>7/11/2011</u>	<u>7/11/2011</u>	<u>11/10/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-095-22225-00-00

Spot Description: \_\_\_\_\_  
\_\_\_\_\_ NE NE Sec. 31 Twp. 29 S. R. 8  East  West  
660 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Kingman

Lease Name: Cross Well #: #3

Field Name: \_\_\_\_\_

Producing Formation: Hertha

Elevation: Ground: 1565 Kelly Bushing: 1555

Total Depth: 4520 Plug Back Total Depth: 4437

Amount of Surface Pipe Set and Cemented at: 221 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Gerrick Date: 01/03/2012



1068874

Operator Name: Molitor Oil, Inc. Lease Name: Cross Well #: #3  
Sec. 31 Twp. 29 S. R. 8  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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Mississippi 4130
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" 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 <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
List All E. Logs Run: <b>Attached</b>		

CASING RECORD <input type="checkbox"/> New <input checked="" 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
Production	7.875	4.5	10.5	4547	Class A asc	225	
Surface	12.25	8.625	23	208	Class A	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ 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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input 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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Molitor Oil, Inc.
Well Name	Cross #3
Doc ID	1068874

All Electric Logs Run

Dual Compensated Porosity Log
Microresisstivity Log
Dual Induction Log
Sonic Cement Bond Log

3

ALLIED CEMENTING CO. LLC (ACID)

007509

KS 24-5937

P.O. Box 31 Russell, Kansas 67665 785-483-2627

Medicine Lodge 620-886-5926

20-5975804

Ticket #

Date	8/11/11		PO#	MARK MOLITOR		Location	ZENDA 3N, 3W S into				
Owner	MOLITOR OIL		Lease	CROSS		Well #	#3	County	KIMMAN	State	KANSAS
Station	MEDICINE LODGE		Section		Township	Range	Formation	VIOLA	County	PRATT WELL	

WELL DATA				PERFORATIONS		TREATMENT		INFO:
SIZE	WEIGHT	DEPTH	VOLUME	SHOTS FT.	Max. Pressure	Min. Pressure		
TUBING	2 7/8		17.1	From 4160 to 4162	800	500		To: Allied Cementing Company, LLC (ACID)
CASING	4 1/2		.4	From to			STAGE	You are hereby requested to rent acidizing equipment to do work as listed.
OPEN HOLE				From to			STAGE	Charge To: MOLITOR OIL
PKR				From to				Street
TDPB			Vol 17.5	From to			Total Acid Pumped 53.5 Bbls.	City

TIME A.M./P.M.	PRESSURE		TOTAL FLUID PUMPED	FLUID IN FORMATION	INJECTION RATE	EXPLANATION
	TBG	CSG				
			4.2			Spot Acid @ 4473' (4.2 bbl)
			Reset meter		3	Acid on spot PKR SET START ACID
75			6		3	Acid in start flush
75			17.5			HOLE LOADED
500			17.6		STAGE	Inc PST (stage 2 hrs not breaking)
75			Reset meter		3	Hook to Annulus (LOAD BACKSIDE)
/			29			HOLE LOADED
500			Reset meter		STAGE	Hook to Tubing @ 770 PST
600			.3		STAGE	Inc PST
800			.4		" "	Inc PST
800	100					PST INCREASING ON ANNULUS
/	/					RELEASE <del>STAGE</del> → A SWAB BACK

EQUIPMENT AND PERSONNEL		MATERIALS USED		AMOUNT	UNIT PRICE	TOTAL COST
Brian S	NEW	Standard Pump chg.		1	700.00	700.00
Lucas W	419	15% HCl w. MCA SYSTEM		250	2.01	502.50
		ACE-120 (inhibitor)		1	39.27	39.27
		MILEAGE		15	6.00	90.00
						1,331.77
						NET= 1,198.59

New Producer  Terms: 10% discount will be allowed if paid in 30 days from invoice date.

Old Producer

Old Producer - New Zones

New SWD or Injection

Old SWD or Injection

Pressure Test

Customer Signature: Mark Molitor

Customer Print Name: \_\_\_\_\_

Sub-Total: \_\_\_\_\_

Tax: \_\_\_\_\_

Total: \_\_\_\_\_

As consideration, the above names (well owner or contractor) agrees to: (a) to pay you in accordance with your current price schedule; (b) Allied Cementing Company, LLC (ACID) shall not be liable for damage to property of well owner and/or customer unless caused by its willful negligence, this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage. Well owner and/or customer shall be responsible for and secure Allied Cementing Company, LLC (ACID) against any liability for reservoir loss or damage, or property damage arising from a well blowout, unless such loss or damage is caused by willful negligence of Allied Cementing Company, LLC (ACID). If equipment or instruments of Allied Cementing Company, LLC (ACID) are lost or damaged at the well, well owner and/or customer shall either recover the same or pay for such equipment or instruments unless, however, such loss or damage is caused by the negligence of Allied Cementing Company, LLC (ACID); (c) that you make no guarantee of the effectiveness of the materials to be used or the results of treatments; and (d) that you will not be bound by any representation or agreement not herein contained. It is understood you will pay wages (and payroll taxes and withholding thereon) and comply with workman's compensation statutes applicable to servicemen you furnish.

Canon PowerShot 2100

# ALLIED CEMENTING CO., LLC. 040717

MIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*Medicine Lodge, KS*

DATE <i>7-12-11</i>	SEC. <i>31</i>	TWP. <i>29S</i>	RANGE <i>8W</i>	CALLED OUT	ON LOCATION	JOB START <i>3:00 PM</i>	JOB FINISH <i>3:30 PM</i>
LEASE		WELL #		LOCATION <i>Zenda, KS - 3 North L</i>		COUNTY <i>Kingman</i>	STATE <i>KS</i>
OLD OR NEW (Circle one) <i>NEW</i>				<i>to 110<sup>th</sup> - 2 1/2 east S/S</i>			

CONTRACTOR *Hardt #1* OWNER *Molitor Oil Co.*

TYPE OF JOB *Surface*  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE *8 7/8* DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

CEMENT AMOUNT ORDERED  
*175 ex 60:40:20.6cc + 37.00*

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_

COMMON <i>A 115</i>	@ <i>16.25</i>	<i>1706.25</i>
POZMIX <i>70</i>	@ <i>8.50</i>	<i>595.00</i>
GEL <i>3</i>	@ <i>21.25</i>	<i>63.75</i>
CHLORIDE <i>6</i>	@ <i>58.20</i>	<i>349.20</i>
ASC _____	@ _____	_____

DISPLACEMENT *13 Bbls Fresh*  
 EQUIPMENT \_\_\_\_\_

PUMP TRUCK # <i>360-265</i>	CEMENTER <i>Carl Bolding</i>	
BULK TRUCK # <i>364</i>	HELPER <i>Matt Thimesch</i>	
BULK TRUCK # _____	DRIVER <i>Carl Bolding</i>	
BULK TRUCK # _____	DRIVER _____	

HANDLING <i>184</i>	@ <i>2.25</i>	<i>414.00</i>
MILEAGE <i>30-11/184</i>		<i>607.20</i>
		TOTAL <i>3735.40</i>

**REMARKS:**

*Run 220' 8 7/8 casing  
 break circulation  
 Mix 175 ex 60:40:20.6cc  
 Displace with 13 Bbls Fresh  
 above 20' cement in casing  
 + shut in.  
 Cement did circulate*

**SERVICE**

DEPTH OF JOB <i>220'</i>		
PUMP TRUCK CHARGE		<i>1125.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>60</i>	@ <i>7.00</i>	<i>420.00</i>
MANIFOLD <i>light vehicle 60</i>	@ <i>4.00</i>	<i>240.00</i>
		TOTAL <i>1785.00</i>

CHARGE TO: *Molitor Oil Co.*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
		TOTAL _____

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner, agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES *5320.40*  
 DISCOUNT *20%* IF PAID IN 30 DAYS

PRINTED NAME *Scott C Adelhardt*  
 SIGNATURE *Scott C Adelhardt*

*Net 4416.32*

# ALLIED CEMENTING CO., LLC. 040751

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Molitor

DATE <u>7-22-11</u>	SEC <u>31</u>	TWP <u>29S</u>	RANGE <u>8E</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30am</u>	JOB FINISH <u>8:30am</u>
LEASE <u>Grass</u>	WELL # <u>3</u>	LOCATION <u>Zend W, N to 110' st</u>			COUNTY <u>Wagon</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>2 1/2 E, Stato</u>					

CONTRACTOR Head + Rig #1 OWNER Molitor Oyl

TYPE OF JOB <u>Production</u>	CEMENT		
HOLE SIZE <u>7 7/8</u>	T.D. <u>4547'</u>	AMOUNT ORDERED <u>305x 60100949601</u>	
CASING SIZE <u>4 1/2</u>	DEPTH <u>4533'</u>	<u>2255x c has 18" + 5" Kolseal + 8" 11-16</u>	
TUBING SIZE	DEPTH	<u>+ .75% 60100949601 + 100000</u>	
DRILL PIPE	DEPTH	<u>KL 8600</u>	
TOOL	DEPTH	COMMON <u>18 5x</u>	@ <u>16.25</u> <u>292.50</u>
PRES. MAX	MINIMUM	POZMIX <u>12 5x</u>	@ <u>8.50</u> <u>102.00</u>
MEAS. LINE	SHOE JOINT <u>20'</u>	GEL <u>1 5x</u>	@ <u>21.25</u> <u>21.25</u>
CEMENT LEFT IN CSG. <u>20'</u>		CHLORIDE	@
PERFS.		ASC <u>225 5x</u>	@ <u>19.00</u> <u>4275.00</u>
DISPLACEMENT <u>73 bbls 2% KCL</u>		<u>Kolseal 1125<sup>ms</sup></u>	@ <u>89</u> <u>1001.25</u>

EQUIPMENT		KOLSEAL <u>169<sup>ms</sup></u>		@ <u>17.20</u> <u>2906.80</u>
PUMP TRUCK # <u>36/265</u>	CEMENTER <u>Scott Thru</u>	<u>Gas Blacle 158<sup>ms</sup></u>	@ <u>16.40</u> <u>2591.20</u>	
BULK TRUCK # <u>42/252</u>	HELPER <u>Scott Thru</u>	<u>Drummer 31<sup>ms</sup></u>	@ <u>8.90</u> <u>275.90</u>	
BULK TRUCK #	DRIVER <u>Austin Elan</u>	<u>Clapro 8 Gals</u>	@ <u>31.25</u> <u>250.00</u>	
BULK TRUCK #	DRIVER		@	

REMARKS:  
Bit was with rig pump bit through  
MIX 15% for bit hole  
MIX 15% for cement  
MIX 22% for cement  
Return dia 73 bbls 2% KCL  
concrete 900 next to 1600 ps  
plus hell

HANDLING <u>321</u>	@ <u>2.25</u>	<u>722.25</u>
MILEAGE <u>30/321/.11</u>		<u>1059.30</u>
		TOTAL <u>13,497.45</u>

CHARGE TO: Molitor Oyl  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>4533'</u>		
PUMP TRUCK CHARGE <u>2405.00</u>		
EXTRA FOOTAGE	@	
MILEAGE <u>60</u>	@ <u>7.00</u>	<u>420.00</u>
MANIFOLD	@	
<u>Head Rental</u>	@	<u>200.00</u>
<u>Light Vehicle 60</u>	@ <u>4.00</u>	<u>240.00</u>
		TOTAL <u>3265.00</u>

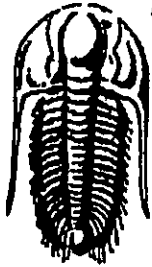
4 1/2 PLUG & FLOAT EQUIPMENT

AD 1- ACUGA 1200	@	<u>192.00</u>
AD 1- Labh 1200	@	<u>233.00</u>
AD 8- control 1200	@ <u>48.00</u>	<u>384.00</u>
	@	
	@	
	@	
		TOTAL <u>809.00</u>

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 17,571.45  
 DISCOUNT 20% IF PAID IN 30 DAYS  
Net 14057.16

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Mark Molitor



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Molitor Oil Co.**

9517 SW 80th Ave.  
Spivey, KS 67142

ATTN: Max Lovely

**31-29s-8w Kingman,KS**

**Cross #3**

Start Date: 2011.07.17 @ 04:31:35

End Date: 2011.07.17 @ 12:03:50

Job Ticket #: 042516      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Molitor Oil Co.

Cross #3

31-29s-8w Kingman,KS

DST # 1

Larsing Dennis

2011.07.17



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Molitor Oil Co.  
9517 SW 80th Ave.  
Spivey, KS 67142  
ATTN: Max Lovely

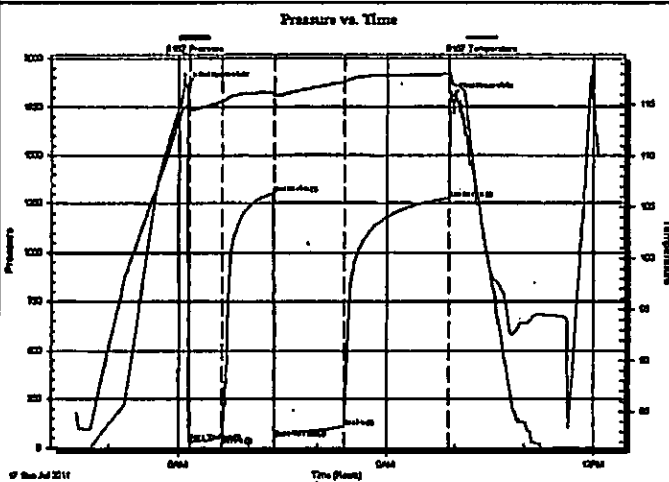
Cross #3  
31-29s-8w Kingman, KS  
Job Ticket: 042516 DST#: 1  
Test Start: 2011.07.17 @ 04:31:35

### GENERAL INFORMATION:

Formation: **Lansing Dennis**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **06:08:50**  
 Tester: **Gary Fevoteaux**  
 Time Test Ended: **12:03:50**  
 Unit No: **58**  
 Interval: **3793.00 ft (KB) To 3810.00 ft (KB) (TVD)**  
 Reference Elevations: **1570.00 ft (KB)**  
 Total Depth: **3810.00 ft (KB) (TVD)**  
**1560.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Floor**  
 KB to GRVCF: **10.00 ft**

Serial #: **8167** Inside  
 Press@RunDepth: **111.15 psig @ 3794.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.07.17** End Date: **2011.07.17** Last Calib.: **2011.07.17**  
 Start Time: **04:31:40** End Time: **12:03:49** Time On Btm: **2011.07.17 @ 06:06:05**  
 Time Off Btm: **2011.07.17 @ 09:56:20**

TEST COMMENT: IP: Strong blow. B.O.B. in 90 secs. GTS in 28 mins.  
 IS: Weak blow. 1/2" Dead in 15 mins.  
 FP: Strong blow. (see gas flow report)  
 FS: Weak blow. 1/2 - 2".



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.78	114.91	Initial Hydro-static
3	30.83	114.65	Open To Flow (1)
31	55.79	115.36	Shut-In(1)
76	1304.64	116.26	End Shut-In(1)
76	49.58	115.99	Open To Flow (2)
137	111.15	117.27	Shut-In(2)
229	1278.05	118.01	End Shut-In(2)
231	1806.54	117.29	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMV 6%o 8% m 86% w	0.30
122.00	GMBWCO 23%g 9% m 12% w 46% o	1.16
85.00	GOCM 45%g 21% o 34% m	1.19

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	3.50	28.40





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Molitor Oil Co.

Cross #3

9517 SW80th Ave.  
Spivey, KS 67142

31-29s-8w Kingman, KS

Job Ticket: 042516

DST#: 1

ATTN: Max Lovely

Test Start: 2011.07.17 @ 04:31:35

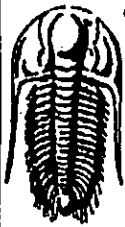
## Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.80 inches	Volume: 51.30 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 51.89 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3793.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 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
C.O. Sub	1.00			3766.00	
Shut in tool	5.00			3771.00	
HMV	5.00			3776.00	
Jars	5.00			3781.00	
Safety Joint	3.00			3784.00	
Packer	4.00			3788.00	28.00 Bottom Of Top Packer
Packer	5.00			3793.00	
Stubb	1.00			3794.00	
Recorder	0.00	8167	Inside	3794.00	
Recorder	0.00	8370	Outside	3794.00	
Perforations	11.00			3805.00	
Bullnose	5.00			3810.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Molitor Oil Co.

Cross #3

9517 SW80th Ave.  
Spivey, KS 67142

31-299-8w Kingman, KS

Job Ticket: 042516

DST#: 1

ATTN: Max Lovely

Test Start: 2011.07.17 @ 04:31:35

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

81000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbbl
60.00	OCMW 6%o 8%m 86%w	0.296
122.00	GM&WCO 23%g 8%m 12%w 46%o	1.165
85.00	GOOM 45%g 21%o 34%m	1.192

Total Length: 267.00ft

Total Volume:

2.652 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location:

Recovery Comments: Fw .062 @ 107



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Molitor Oil Co.

Cross #3

9517 SW80th Ave.  
Spivey, KS 67142

31-29s-8w Kingman, KS

Job Ticket: 042516

DST#: 1

ATTN: Max Lovely

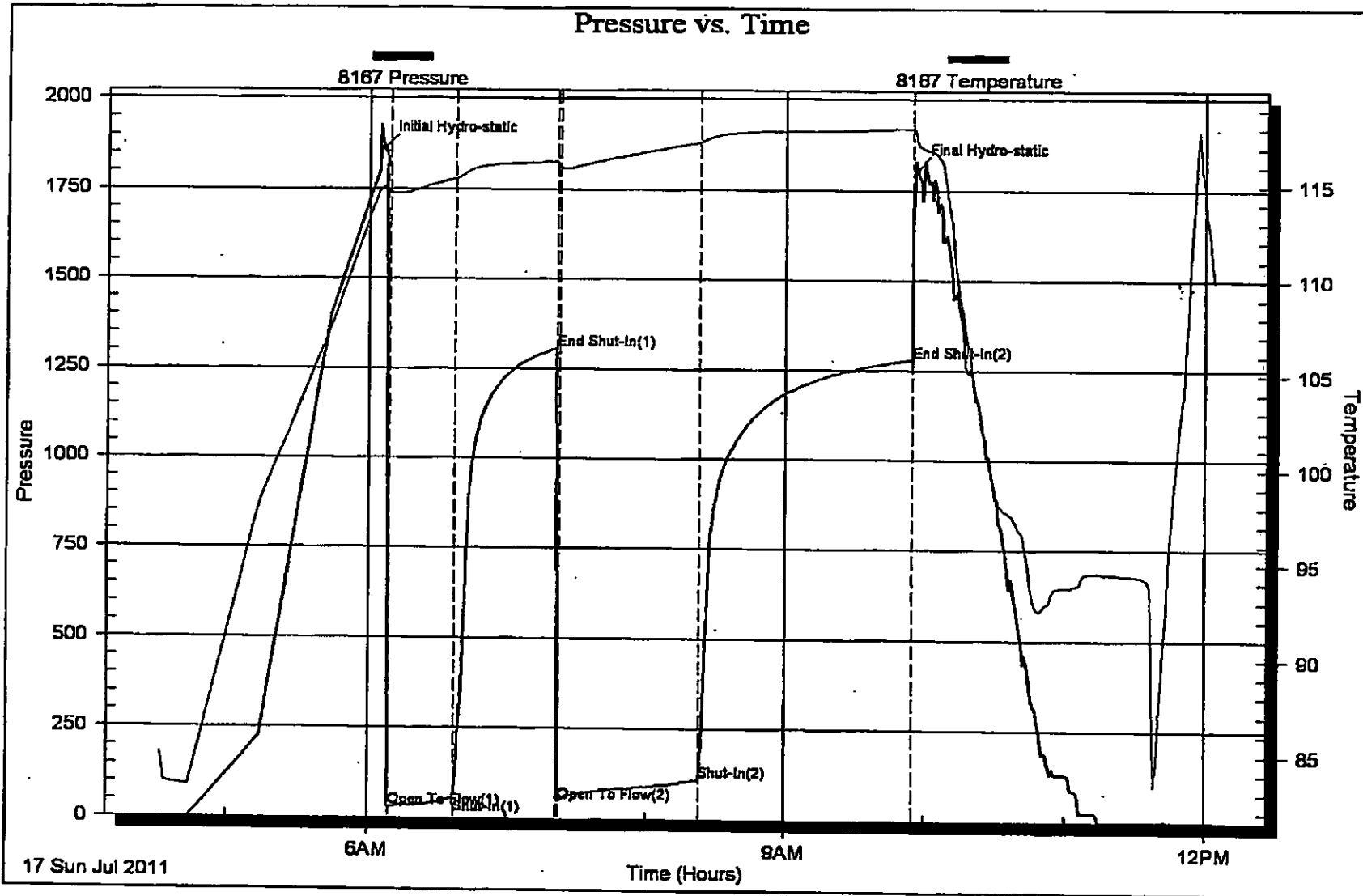
Test Start: 2011.07.17 @ 04:31:35

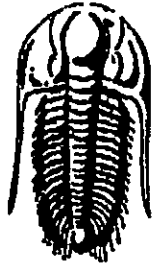
### Gas Rates Information

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)
2	10	0.25	3.00	27.60
2	10	0.25	3.00	27.60
2	10	0.25	3.00	27.60
2	20	0.25	3.50	28.40
2	30	0.25	3.00	27.60
2	40	0.25	2.00	26.02





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Molitor Oil Co.**

9517 SW 80th Ave.  
Spivey, KS 67142

ATTN: Max Lovely

**31-29s-8w Kingman,KS**

**Cross #3**

Start Date: 2011.07.17 @ 23:43:52

End Date: 2011.07.18 @ 10:46:37

Job Ticket #: 042517      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Molitor Oil Co.

Cross #3

31-29s-8w Kingman,KS

DST # 2

Hertha

2011.07.17



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Molitor Oil Co.  
9517 SW 80th Ave.  
Spivey, KS 67142  
ATTN: Max Lovely

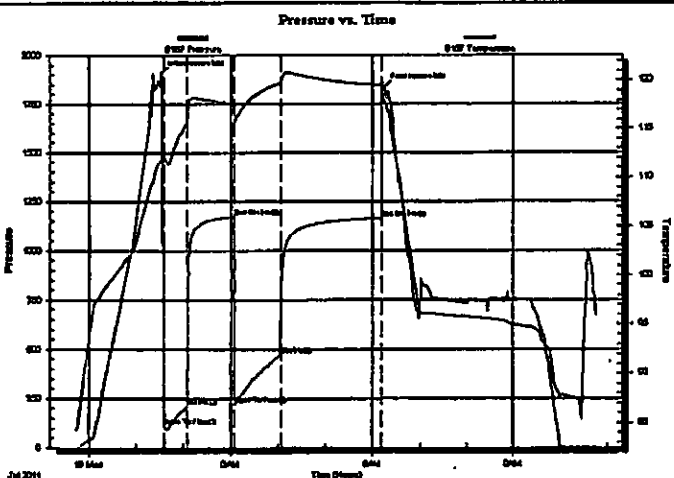
Cross #3  
31-29s-8w Kingman, KS  
Job Ticket: 042517      DST#: 2  
Test Start: 2011.07.17 @ 23:43:52

### GENERAL INFORMATION:

Formation: Hertha  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 01:36:07  
Time Test Ended: 10:46:37  
Interval: 3849.00 ft (KB) To 3875.00 ft (KB) (TVD)  
Total Depth: 3875.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole  
Tester: Gary Favoteaux  
Unit No: 56  
Reference Elevations: 1570.00 ft (KB)  
1560.00 ft (CF)  
KB to GR/CF: 10.00 ft

Serial #: 8167      Inside  
Press@RunDepth: 471.93 psig @ 3850.00 ft (KB)  
Start Date: 2011.07.17      End Date: 2011.07.18  
Start Time: 23:43:57      End Time: 10:46:37  
Capacity: 8000.00 psig  
Last Calib.: 2011.07.18  
Time On Btm: 2011.07.18 @ 01:32:52  
Time Off Btm: 2011.07.18 @ 06:14:07

TEST COMMENT: IFF: Strong blow . B.O.B. in 10 secs. GTS in 4 1/2 mins.  
IS: Strong blow . B.O.B.  
FF: Strong blow .  
FSt: Strong blow . B.O.B.



### PRESSURE SUMMARY

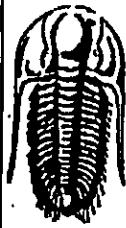
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.27	111.79	Initial Hydro-static
4	113.37	111.97	Open To Flow (1)
32	211.52	115.64	Shut-in(1)
92	1173.75	117.64	End Shut-in(1)
93	219.43	116.31	Open To Flow (2)
151	471.93	119.78	Shut-in(2)
279	1165.53	119.58	End Shut-in(2)
282	1834.85	118.14	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	SWw oil specs	0.59
1640.00	CGO 50%g 50%o	23.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
First Gas Rate	0.38	7.00	78.39
Last Gas Rate	0.25	3.00	27.60
Max. Gas Rate	0.38	10.00	89.38



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Monitor Oil Co.

Cross #3

9517 SW80th Ave.  
Spivey, KS 67142

31-29s-6w Kingman, KS

Job Ticket: 042517

DST#: 2

ATTN: Max Lovely

Test Start: 2011.07.17 @ 23:43:52

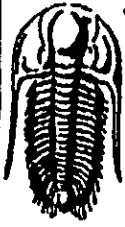
## Tool Information

Drill Pipe:	Length: 3719.00 ft	Diameter: 3.80 inches	Volume: 52.17 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 52.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3849.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 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			3822.00	
Shut in tool	5.00			3827.00	
HMV	5.00			3832.00	
Jars	5.00			3837.00	
Safety Joint	3.00			3840.00	
Packer	4.00			3844.00	26.00 Bottom Of Top Packer
Packer	5.00			3849.00	
Stubb	1.00			3850.00	
Recorder	0.00	8167	Inside	3850.00	
Recorder	0.00	8370	Outside	3850.00	
Perforations	20.00			3870.00	
Bullnose	5.00			3875.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Monitor Oil Co.

Cross #3

9517 SW 80th Ave.  
Spivey, KS 67142

31-29s-8w Kingman, KS

Job Ticket: 042517      DST#: 2

ATTN: Max Lovely

Test Start: 2011.07.17 @ 23:43:52

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 41.3 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 84000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 0.20 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
120.00	SWW oil specs	0.590
1640.00	CGO 50%g 50%o	23.005

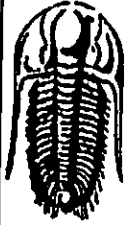
Total Length: 1760.00 ft      Total Volume: 23.595 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: RW.065 @ 100





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Mobilor Oil Co.

Cross #3

9517 SW 80th Ave.  
Spivey, KS 67142

31-29s-8w Kingman, KS

Job Ticket: 042517

DST#: 2

ATTN: Max Lovely

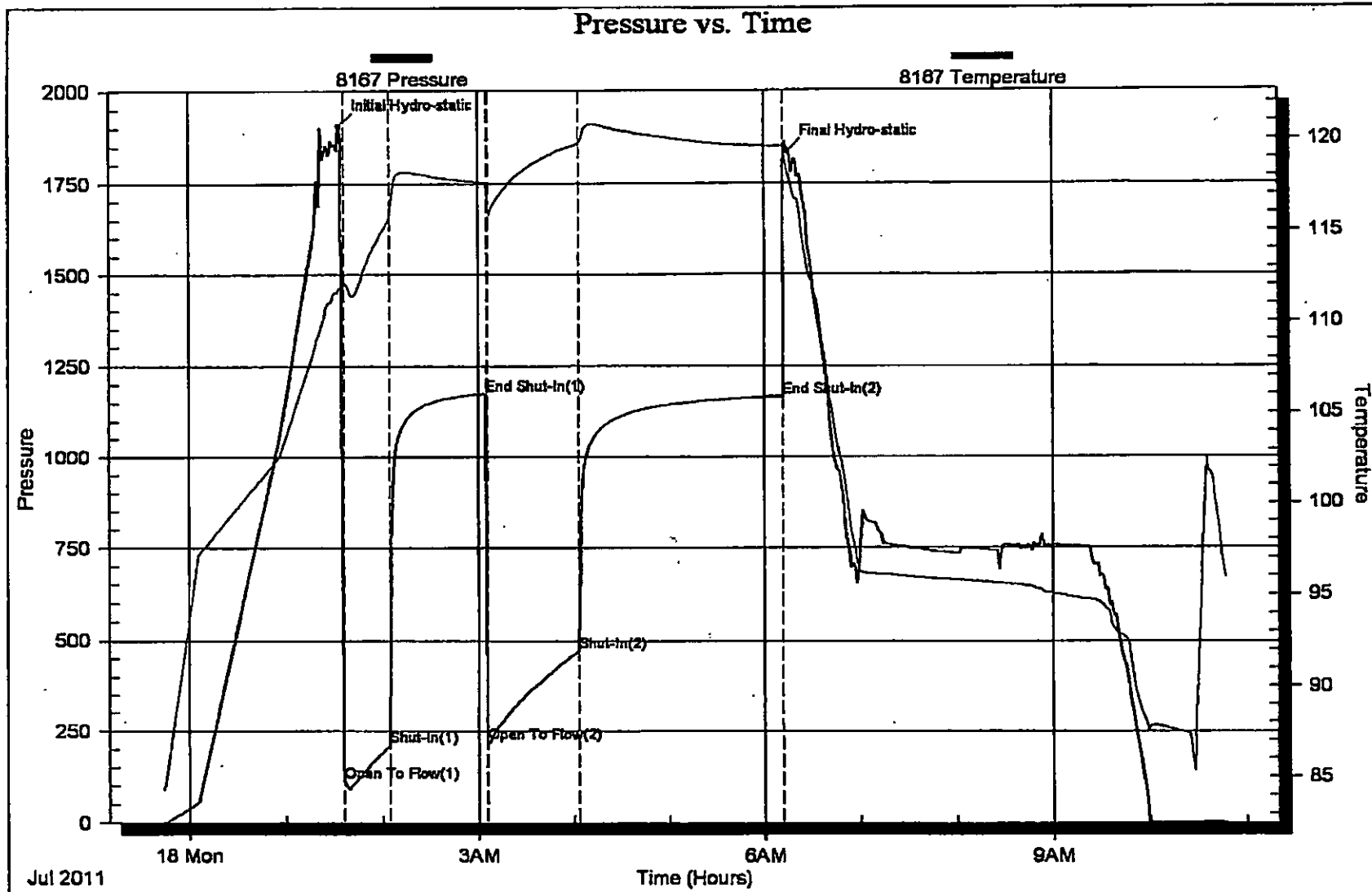
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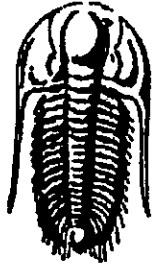
### Gas Rates Information

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	10	0.38	7.00	78.39
1	10	0.38	7.00	78.39
1	10	0.38	7.00	78.39
1	20	0.38	10.00	89.38
1	30	0.38	8.00	82.06
2	10	0.25	5.00	30.78
2	20	0.25	5.00	30.78
2	30	0.25	4.00	29.19
2	40	0.25	3.00	27.60





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Molitor Oil Co.**

9517 SW 80th Ave.  
Spivey, KS 67142

ATTN: Max Lovely

**31-29s-8w Kingman,KS**

**Cross #3**

Start Date: 2011.07.20 @ 12:19:19

End Date: 2011.07.20 @ 20:07:49

Job Ticket #: 42535                      DST#: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Molitor Oil Co.

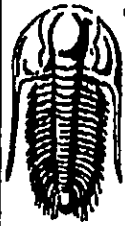
Cross #3

31-29s-8w Kingman,KS

DST # 3

Simpson

2011.07.20



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Mobil Oil Co.  
9517 SW 80th Ave.  
Spivey, KS 67142  
ATTN: Max Lovely

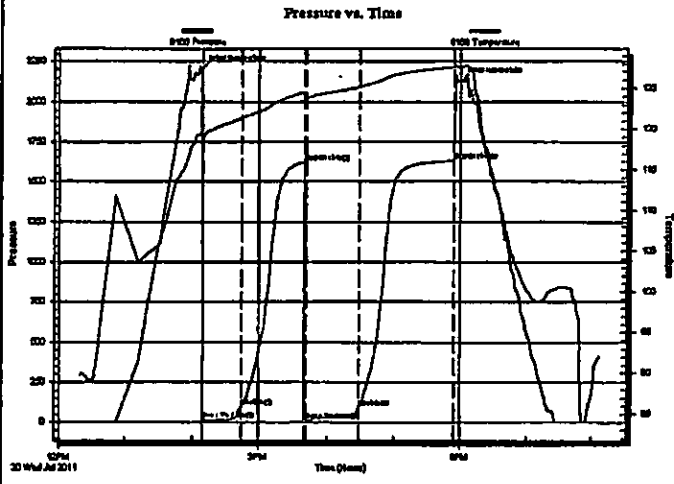
Cross #3  
31-29s-8w Kingman, KS  
Job Ticket: 42535      DST#: 3  
Test Start: 2011.07.20 @ 12:19:19

### GENERAL INFORMATION:

Formation: Simpson  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 14:10:19  
Time Test Ended: 20:07:49  
Interval: 4442.00 ft (KB) To 4449.00 ft (KB) (TVD)  
Total Depth: 4449.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Chris Staats  
Unit No: 34  
Reference Elevations: 1570.00 ft (KB)  
1560.00 ft (CF)  
KB to GRVCF: 10.00 ft

Serial #: 8166      Outside  
Press@RunDepth: 96.03 psig @ 4448.00 ft (KB)  
Start Date: 2011.07.20      End Date: 2011.07.20  
Start Time: 12:19:24      End Time: 20:07:48  
Capacity: 8000.00 psig  
Last Calib.: 2011.07.20  
Time On Btm: 2011.07.20 @ 14:09:19  
Time Off Btm: 2011.07.20 @ 18:00:34

TEST COMMENT: IF: Strong blow BOB 20 min  
IS: No blow back  
FF: Strong Blow BOB 2 sec  
FS: No blow back



### PRESSURE SUMMARY

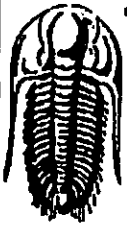
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.71	119.47	Initial Hydro-static
1	18.19	118.91	Open To Flow (1)
36	100.95	121.37	Shut-in(1)
91	1623.50	124.46	End Shut-in(1)
93	11.95	123.94	Open To Flow (2)
139	96.03	125.16	Shut-in(2)
226	1634.62	127.61	End Shut-in(2)
232	2133.29	127.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	GWOM 50%gas 20% oil 20% mud 10% v.0.15	

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Mobilor Oil Co.  
9517 SW 80th Ave.  
Spivey, KS 67142  
ATTN: Max Lovely

Cross #3  
31-29s-8w Kingman, KS  
Job Ticket: 42535 DST#: 3  
Test Start: 2011.07.20 @ 12:19:19

### Tool Information

Drill Pipe:	Length: 4307.00 ft	Diameter: 3.80 inches	Volume: 60.42 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.01 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4442.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4419.00	
Shut In Tool	5.00			4424.00	
Hydraulic tool	5.00			4429.00	
Jars	5.00			4434.00	
Safety Joint	3.00			4437.00	
Packer	5.00			4442.00	24.00 Bottom Of Top Packer
Packer - Shale	5.00			4447.00	
Stubb	1.00			4448.00	
Recorder	0.00	6773	Outside	4448.00	
Recorder	0.00	8166	Outside	4448.00	
Perforations	3.00			4451.00	
Bullnose	3.00			4454.00	12.00 Anchor Tool

**Total Tool Length: 36.00**



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

FLUID SUMMARY

Mobilor Oil Co.

Cross #3

9517 SW 80th Ave.  
Spivey, KS 67142

31-29s-8w Kingman, KS

Job Ticket: 42535      DST#: 3

ATTN: Max Lovely

Test Start: 2011.07.20 @ 12:19:19

#### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>2</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	GNOM 50% gas 20% oil 20% mud 10% water	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

