



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1104950
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1104950

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input 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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	M G Oil Inc
Well Name	Popp 4
Doc ID	1104950

All Electric Logs Run

micro
composite
compensated neutron density log
phased induction, shallow-focus sp log

Form	ACO1 - Well Completion
Operator	M G Oil Inc
Well Name	Popp 4
Doc ID	1104950

Tops

Name	Top	Datum
Anhydrite	880	+1031
Base Anhydrite	913	+998
Topeka	2823	-912
Heebner	3055	-1144
Toronto	3073	-1162
Lansing	3124	-1213
BKC	3343	-1432
Arbuckle	3397	-1486

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665
 Cell 785-324-1041

No. 6238

Date	1-12-15	Sec.	16	Range	14	County	Barber	State	KS	On Location		Finish	1.15 AM
Lease	DOPP		Well No.	4		Location	2517 6th St NW Einto						
Contractor	[Signature]		Owner		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.								
Type Job	Surface		Hole Size	T.D. 259		Charge To	M.G. Oil						
Csg.	5 7/8		Depth	533		Street							
Tbg. Size			Depth			City	State						
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	42		Shoe Joint	4 1/2		Cement Amount Ordered	36 3/4 cc 29 gal						
Meas Line			Displace	534 BBL									
EQUIPMENT						Common							
Pumptrk	No.	Cement	Helper		Poz. Mix								
Bulktrk	No.	Driver	Driver		Gel.								
Bulktrk	No.	Driver	Driver		Calcium								
JOB SERVICES & REMARKS						Hulls							
Remarks:			Salt										
Rat Hole			Flowseal										
Mouse Hole			Kol-Seal										
Centralizers			Mud CLR 48										
Baskets			CFL-117 or CD110 CAF 38										
D/V or Port Collar			Sand										
Cement did Circulate						Handling							
						Mileage							
						FLOAT EQUIPMENT							
						Guide Shoe							
						Centralizer							
						Baskets							
						AFU Inserts							
						Float Shoe							
						Latch Down							
						Bottle plate 8/2							
						Rubber plug 8/2							
						Pumptrk Charge							
						Mileage							
						Tax							
						Discount							
Signature [Signature]						Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 0287

Date	12-6-12	Sec.	15	Twp.	16	Range	14	County	BARBON	State	KANSAS	On Location		Finish	7:15 AM
Lease								Well No. # 4		Location RUSSELL ST 210 RD - 1/2 E/INTD					
Contractor								Owner		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.					
Type Job								Charge To		MC OIL					
Hole Size								T.D.		3440'					
Csg.								Depth		3431'					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		21.77 Cement Amount Ordered 175 csm - 10% 5% QUANTITY					
Meas Line								Displace		83 BBLS					
EQUIPMENT															
Pumptrk # 5		No.		Cementar		Helper		Brett		Common					
Bulktrk # 1		No.		Driver		Driver		GANTT/W.		Poz. Mix					
Bulktrk # 1		No.		Driver		Driver		CISCO/MATT		Gel.					
										Calcium					
JOB SERVICES & REMARKS															
Remarks:										Hulls					
Rat Hole								30 SKS		Salt					
Mouse Hole								15 SKS		Flowseal					
Centralizers								1, 2, 5, 7, 9, 11, 13		Kol-Seal					
Baskets								24 UP ON #2		Mud CLR 48 500 GAL					
DV or Port Collar										CFL-117 or CD110 CAF 38					
DROPPED BALL - CIRCULATION DOWN										Sand					
CIRCULATED 1 hr. ON BOTTOM										Handling					
PUMPED 500 GAL OF MUD FLUSH -										Mileage					
PLUGGED RAT HOLE 37 SKS - PLUGGED										FLOAT EQUIPMENT					
MOUSE HOLE 15 SKS - CONNECTED TO										Guide Shoe					
5 1/2" & MIXED AND PUMPED 130 SKS										Centralizer 7 - 5 1/2" TURBINE					
WASHED PUMP - DROPPED PLUG &										Baskets 1					
DISPLACED - PLUG LANDED & HELD										AFU Inserts 1 - 5 1/2"					
LIFT @ 1,000 LBS										Float Shoe					
PLUG LANDED @ 1,500 LBS										Latch Down 1 - 5 1/2"					
										1 - LATCH CLAMP 5 1/2"					
										Pumptrk Charge					
										Mileage					
										Tax					
										Discount					
										Total Charge					
THANK YOU!															
Signature															

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 15, 2013

Curtis Counts
M G Oil Inc
PO BOX 162
RUSSELL, KS 67665-0162

Re: ACO1
API 15-009-25785-00-00
Popp 4
NW/4 Sec.15-16S-14W
Barton County, Kansas

Dear Production Department:

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

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

Respectfully,
Curtis Counts



DRILL STEM TEST REPORT

Prepared For: **MG Oil Inc**

PO Box 162
Russell, KS 67665-0162

ATTN: Curtis Counts

Popp #4

15-16s-14w Barton,KS

Start Date: 2012.12.04 @ 08:16:00

End Date: 2012.12.04 @ 14:01:24

Job Ticket #: 51507 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.05 @ 16:04:43

MG Oil Inc
15-16s-14w Barton,KS
Popp #4
DST # 1
LKC E-G
2012.12.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

MG Oil Inc
 PO Box 162
 Russell, KS 67665-0162
 ATTN: Curtis Counts

15-16s-14w Barton, KS
Popp #4
 Job Ticket: 51507 **DST#: 1**
 Test Start: 2012.12.04 @ 08:16:00

GENERAL INFORMATION:

Formation: **LKC E-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:46:55
 Time Test Ended: 14:01:24
 Interval: **3181.00 ft (KB) To 3216.00 ft (KB) (TVD)**
 Total Depth: 3216.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1911.00 ft (KB)
 1904.00 ft (CF)
 KB to GR/CF: 7.00 ft

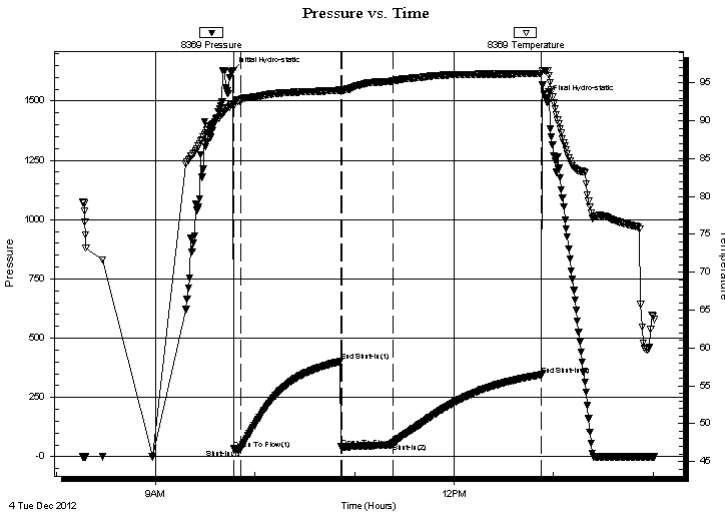
Serial #: 8369

Inside

Press @ Run Depth: 57.25 psig @ 3187.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.04 End Date: 2012.12.04 Last Calib.: 2012.12.04
 Start Time: 08:16:00 End Time: 14:01:24 Time On Btm: 2012.12.04 @ 09:45:40
 Time Off Btm: 2012.12.04 @ 12:55:39

TEST COMMENT: 5-IFP-w k to strg in 3 min
 60-ISIP-no bl
 30-FFP-strg bl thru-out
 90-FSIP-1/2" to surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.66	92.17	Initial Hydro-static
2	33.49	91.84	Open To Flow (1)
6	31.12	92.73	Shut-In(1)
66	401.69	94.04	End Shut-In(1)
67	38.80	93.96	Open To Flow (2)
98	57.25	95.27	Shut-In(2)
187	346.01	96.27	End Shut-In(2)
190	1508.52	96.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	710'GIP	0.00
35.00	HO&GCM 20%G35%O45%M	0.49
62.00	MGO 40%G10%M50%O	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MG Oil Inc
PO Box 162
Russell, KS 67665-0162
ATTN: Curtis Counts

15-16s-14w Barton,KS
Popp #4
Job Ticket: 51507 **DST#: 1**
Test Start: 2012.12.04 @ 08:16:00

Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 44.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3181.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3161.00	
Shut In Tool	5.00			3166.00	
Hydraulic tool	5.00			3171.00	
Packer	5.00			3176.00	21.00 Bottom Of Top Packer
Packer	5.00			3181.00	
Stubb	1.00			3182.00	
Perforations	5.00			3187.00	
Recorder	0.00	8369	Inside	3187.00	
Recorder	0.00	8700	Outside	3187.00	
Perforations	26.00			3213.00	
Bullnose	3.00			3216.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc
PO Box 162
Russell, KS 67665-0162
ATTN: Curtis Counts

15-16s-14w Barton,KS
Popp #4
Job Ticket: 51507 **DST#: 1**
Test Start: 2012.12.04 @ 08:16:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.93 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	710'GIP	0.000
35.00	HO&GCM 20%G35%O45%M	0.491
62.00	MGO 40%G10%M50%O	0.870

Total Length: 97.00 ft Total Volume: 1.361 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369

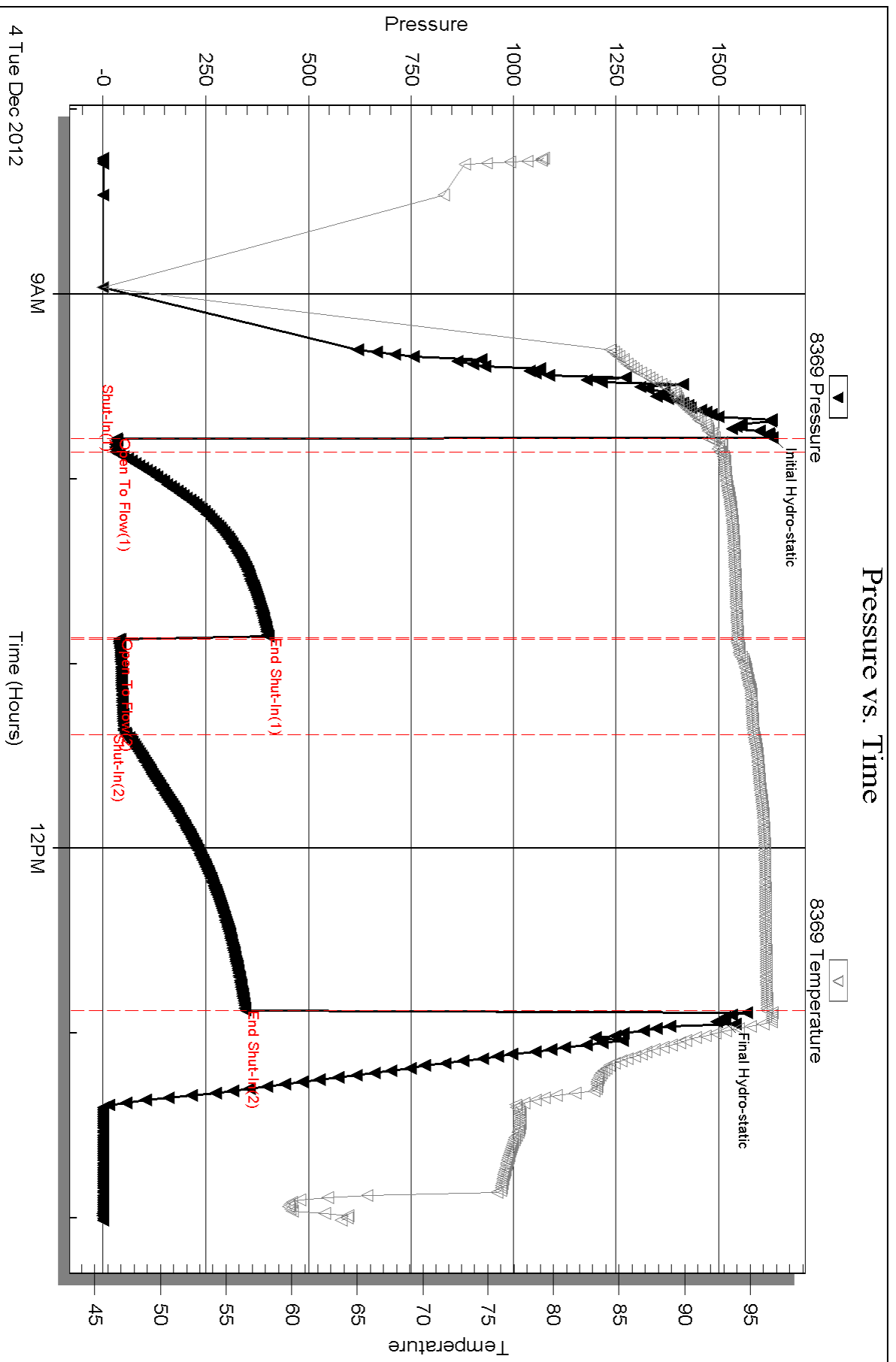
Inside

MG Oil Inc

Popp #4

DST Test Number: 1

Pressure vs. Time



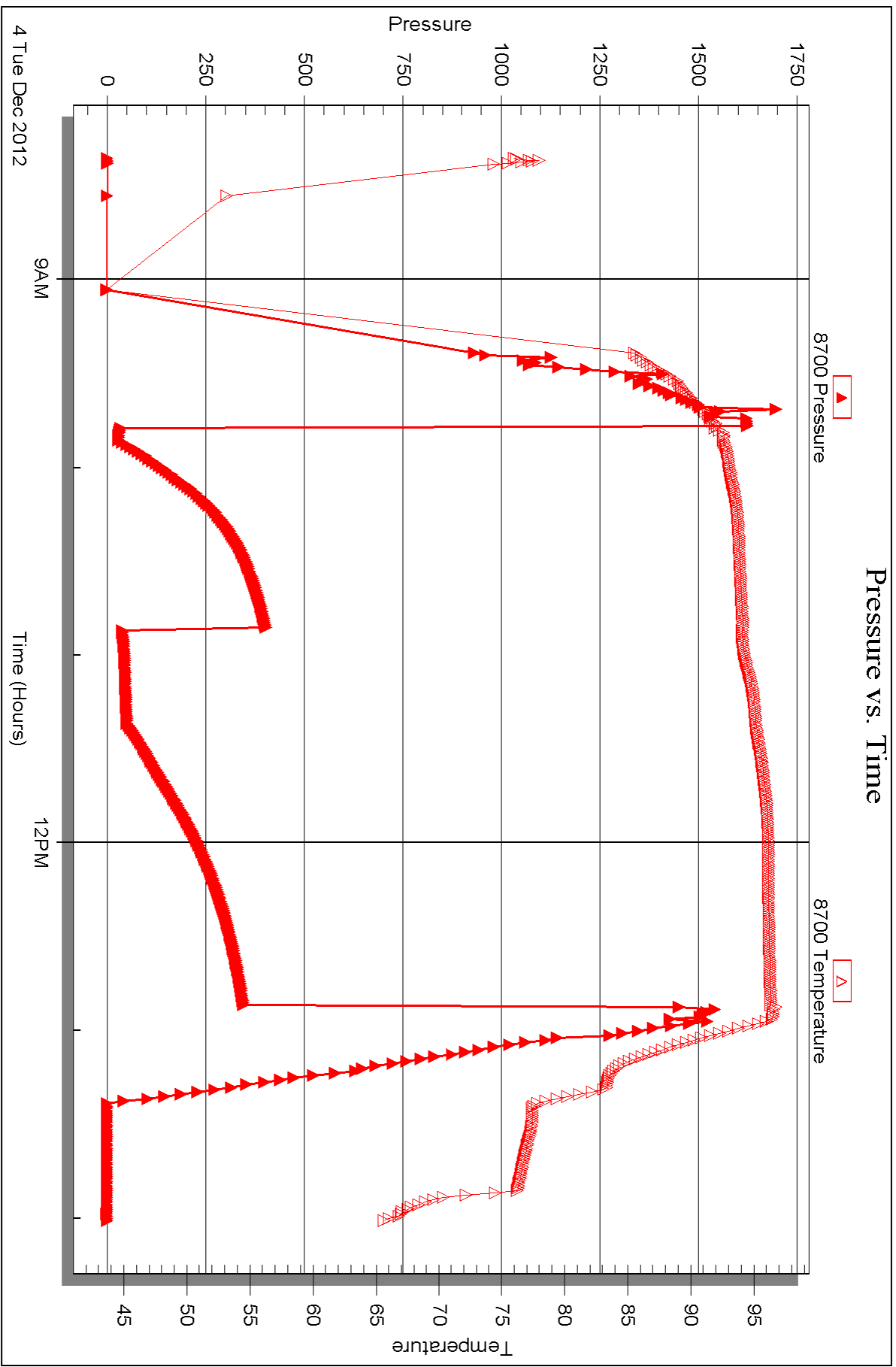
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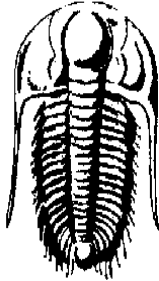
Outside

MG Oil Inc

Popp #4

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **MG Oil Inc**

PO Box 162
Russell, KS 67665-0162

ATTN: Curtis Counts

Popp #4

15-16s-14w Barton,KS

Start Date: 2012.12.04 @ 22:00:43

End Date: 2012.12.05 @ 04:05:52

Job Ticket #: 51508 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.05 @ 16:01:56

MG Oil Inc
15-16s-14w Barton,KS
Popp #4
DST # 2
LKC I-J
2012.12.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

MG Oil Inc
 PO Box 162
 Russell, KS 67665-0162
 ATTN: Curtis Counts

15-16s-14w Barton, KS
Popp #4
 Job Ticket: 51508 **DST#: 2**
 Test Start: 2012.12.04 @ 22:00:43

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:37:23
 Time Test Ended: 04:05:52
 Interval: **3271.00 ft (KB) To 3307.00 ft (KB) (TVD)**
 Total Depth: 3307.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1911.00 ft (KB)
 1904.00 ft (CF)
 KB to GR/CF: 7.00 ft

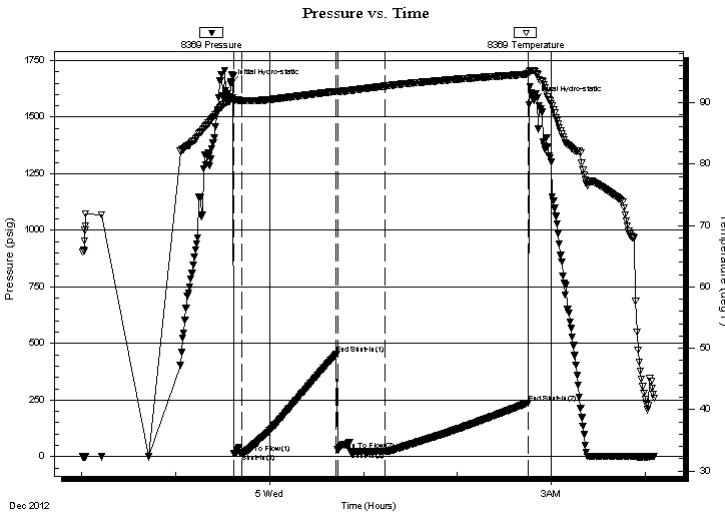
Serial #: 8369

Inside

Press @ Run Depth: 24.97 psig @ 3278.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.04 End Date: 2012.12.05 Last Calib.: 2012.12.05
 Start Time: 22:00:43 End Time: 04:05:52 Time On Btm: 2012.12.04 @ 23:35:23
 Time Off Btm: 2012.12.05 @ 02:48:37

TEST COMMENT: 5-IFP-w k bl thru-out 1/4" to 2" bl
 60-ISIP-no bl
 30-FFP-w k to a gd bl 1" to 8" bl
 90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.79	90.55	Initial Hydro-static
2	15.72	90.25	Open To Flow (1)
7	16.69	90.34	Shut-In(1)
68	452.01	91.83	End Shut-In(1)
68	29.82	91.76	Open To Flow (2)
99	24.97	92.70	Shut-In(2)
190	237.64	94.64	End Shut-In(2)
194	1573.40	95.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90'GIP	0.00
30.00	GMO 25%G35%M40%O	0.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MG Oil Inc
PO Box 162
Russell, KS 67665-0162
ATTN: Curtis Counts

15-16s-14w Barton,KS
Popp #4
Job Ticket: 51508 **DST#: 2**
Test Start: 2012.12.04 @ 22:00:43

Tool Information

Drill Pipe:	Length: 3258.00 ft	Diameter: 3.80 inches	Volume: 45.70 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 45.70 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3271.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	21.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Perforations	6.00			3278.00	
Recorder	0.00	8369	Inside	3278.00	
Recorder	0.00	8700	Outside	3278.00	
Perforations	26.00			3304.00	
Bullnose	3.00			3307.00	36.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc
PO Box 162
Russell, KS 67665-0162
ATTN: Curtis Counts

15-16s-14w Barton,KS
Popp #4
Job Ticket: 51508 **DST#: 2**
Test Start: 2012.12.04 @ 22:00:43

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.94 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

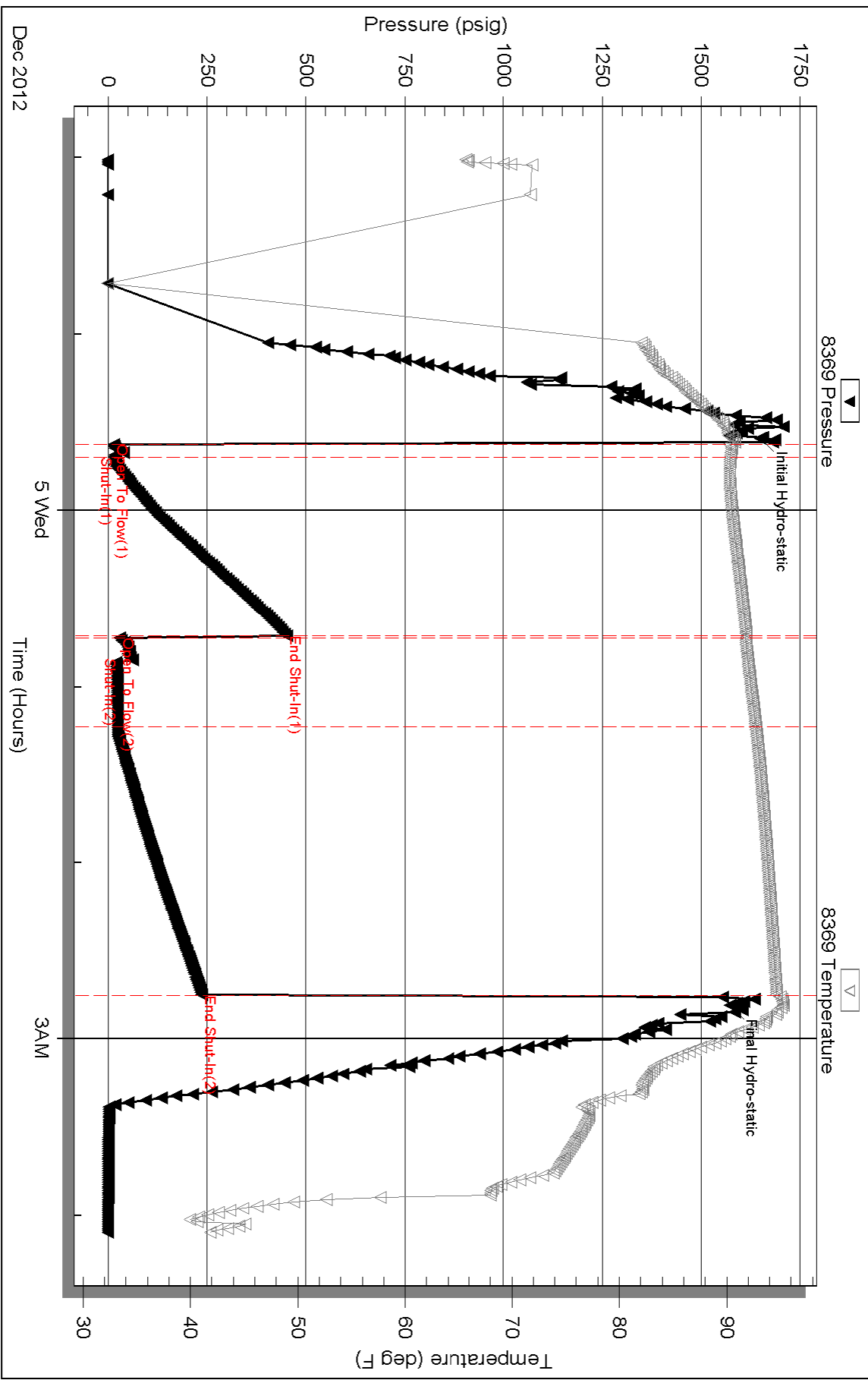
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	90'GIP	0.000
30.00	GMO 25%G35%M40%O	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



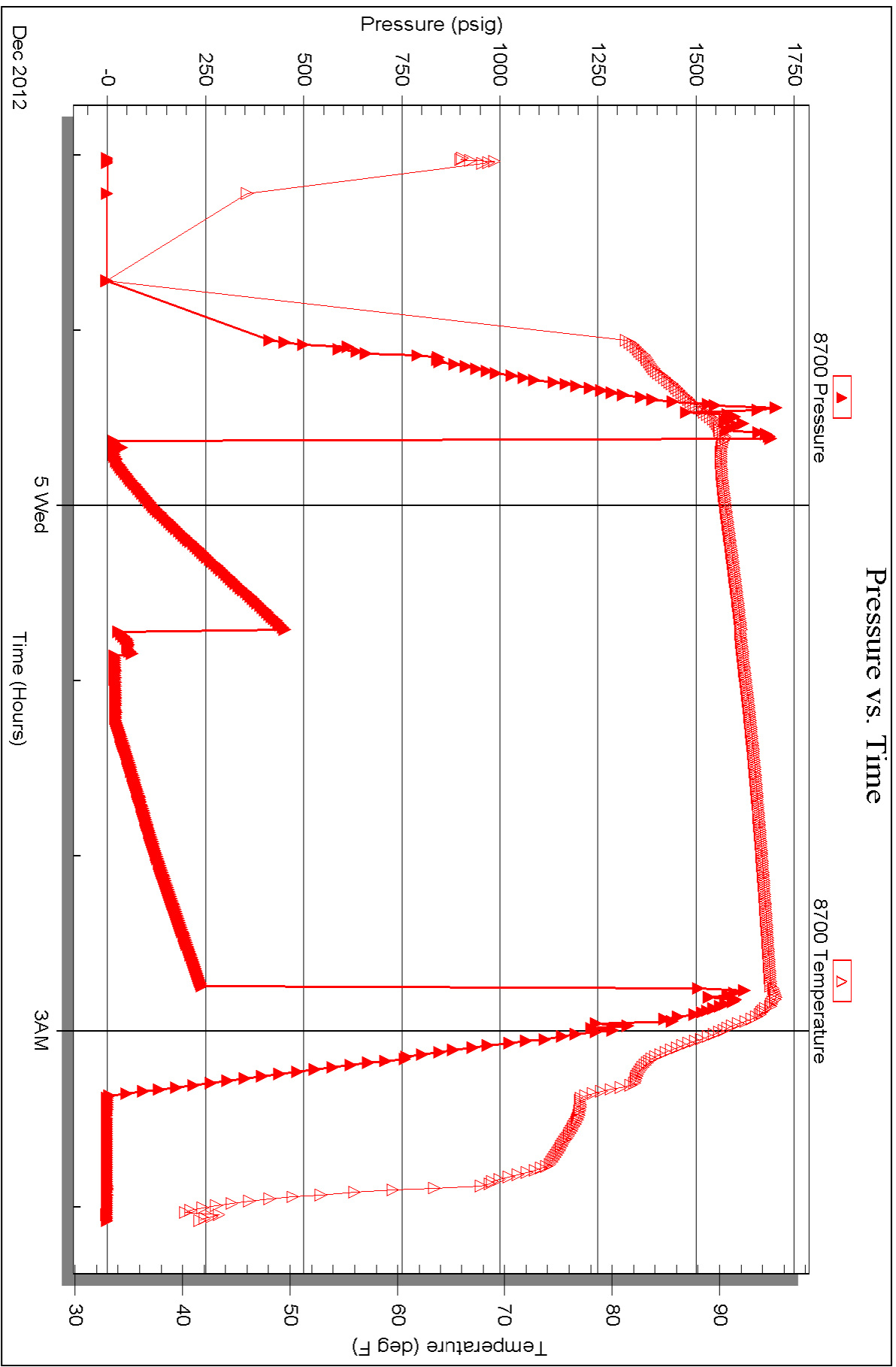
Serial #: 8700

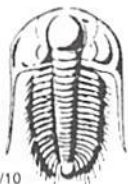
Outside

MG Oil Inc

Popp #4

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51507

Well Name & No. Popp #4 Test No. 1 Date 12-4-12
 Company MG OIL Inc Elevation 1910 KB 1904 GL
 Address PO Box 162 Russell, Ks 67665-0162
 Co. Rep / Geo. Curtis Counts Rig Royal rig 2
 Location: Sec. 15 Twp. 16^s Rge. 14^w Co. BARTON State Ks

Interval Tested 3181-3216 Zone Tested LKC E-G
 Anchor Length 35 Drill Pipe Run 3165 Mud Wt. 8.8
 Top Packer Depth 3176 Drill Collars Run - Vis 68
 Bottom Packer Depth 3181 Wt. Pipe Run - WL 8
 Total Depth 3216 Chlorides 3600 ppm System LCM 1 1/2 #

Blow Description IFP - Weak to Strong in 3min
ISTP - NO Blow
FFP - Strong Blow thru-out
FSIP - 1/2" to surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>710</u>	<u>GTP</u>				
<u>35</u>	<u>HO + GCM</u>	<u>20</u>	<u>35</u>	<u>45</u>	
<u>62</u>	<u>MGO</u>	<u>40</u>	<u>50</u>	<u>10</u>	

Rec Total 97 BHT 96 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1623 Test 1150 T-On Location 0750
 (B) First Initial Flow 33 Jars _____ T-Started 0815
 (C) First Final Flow 31 Safety Joint _____ T-Open 0945
 (D) Initial Shut-In 401 Circ Sub _____ T-Pulled 1250
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 1401
 (F) Second Final Flow 57 Mileage BORT 124 Comments Noted
 (G) Final Shut-In 346 Sampler _____
 (H) Final Hydrostatic 1508 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1274
 Accessibility _____ MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90
 Sub Total 1274

Approved By Curt Counts Our Representative Ray Schwager *thank you*

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51508

Well Name & No. Popp #4 Test No. 2 Date 12-4-12
 Company MG OIL Inc Elevation 1911 KB 1904 GL
 Address PO Box 162 Russell, Ks 67665-0162
 Co. Rep / Geo. Curtis Counts Rig Royal rig 2
 Location: Sec. 15 Twp. 16^s Rge. 14^w Co. BARTON State Ks

Interval Tested 3271-3307 Zone Tested LKC I-J
 Anchor Length 36 Drill Pipe Run 3258 Mud Wt. 8.8
 Top Packer Depth 3266 Drill Collars Run - Vis 64
 Bottom Packer Depth 3271 Wt. Pipe Run - WL 8
 Total Depth 3307 Chlorides 4000 ppm System LCM 1#

Blow Description TFP - WEAK Blow Thru-out 1/4 TO 2" Blow
TSIP - NO Blow
FFP - WEAK TO A Good Blow 1" TO 8" Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>GIP</u>				
<u>30</u>	<u>GMO</u>	<u>25</u>	<u>40</u>	<u>35</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 94 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1648 Test 1150 T-On Location 2115
 (B) First Initial Flow 15 Jars T-Started 2200
 (C) First Final Flow 16 Safety Joint T-Open 2335
 (D) Initial Shut-In 452 Circ Sub T-Pulled 0240
 (E) Second Initial Flow 29 Hourly Standby T-Out 0405
 (F) Second Final Flow 24 Mileage 124 Comments _____
 (G) Final Shut-In 237 Sampler _____
 (H) Final Hydrostatic 1573 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1274
 MP/DST Disc't _____
 Sub Total 1274

Approved By _____ Our Representative Ray Schwager Thank you

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.