



KANSAS CORPORATION COMMISSION 1101562
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 # 5145
Name: Dreiling Oil Inc
Address 1: 1008 CODY AVE
Address 2: PO BOX 550
City: HAYS State: KS Zip: 67601 + 2431
Contact Person: Terry W. Piesker
Phone: (785) 625-8327
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Roger L. Fisher
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 #: _____
09/23/2012 09/29/2012 10/17/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-195-22816-00-00
Spot Description: 20' W and 110' N of SE NE NE
SW SE NE NE Sec. 15 Twp. 12 S. R. 21 East West
1210 Feet from North / South Line of Section
350 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Kohl Well #: 1-15
Field Name: _____
Producing Formation: Arbuckle
Elevation: Ground: 2314 Kelly Bushing: 2319
Total Depth: 4075 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 231 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1748 Feet
If Alternate II completion, cement circulated from: 1748
feet depth to: 0 w/ 200 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 19000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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 Garton Date: 01/16/2013



1101562

Operator Name: Dreiling Oil Inc Lease Name: Kohl Well #: 1-15
 Sec. 15 Twp. 12 S. R. 21 East West County: Trego

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	12.25	8.625	28	231	Common	150	2%Gel, 3%CC
Production	7.875	5.5	14	4074	Common	150	10% Salt

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3988 to 3990, 3992' to 3996', and 3998' to 4000'	250 gal. 15% Mud Acid	4000'

TUBING RECORD: Size: <u>2.875</u> Set At: <u>4012</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>10/26/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf	Water Bbls. <u>14</u>
		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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>398 to 4000</u>
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Form	ACO1 - Well Completion
Operator	Dreiling Oil Inc
Well Name	Kohl 1-15
Doc ID	1101562

All Electric Logs Run

Dual Induction
Neutron/Density
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Dreiling Oil Inc
Well Name	Kohl 1-15
Doc ID	1101562

Tops

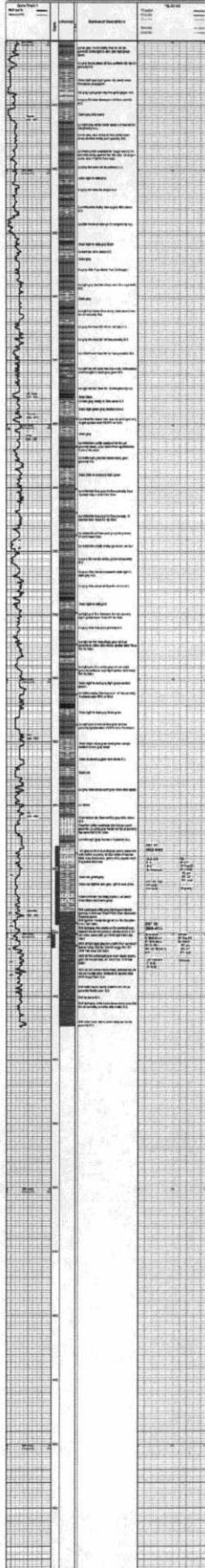
Anhydrite	1736	+577
Topeka	3362	-1041
Heebner	3575	-1254
Toronto	3594	-1273
Lansing-Kansas City	3610	-1289
Base L-KC	3847	-1526
Mamaton	3905	-1594
Arbuckle	3985	-1664

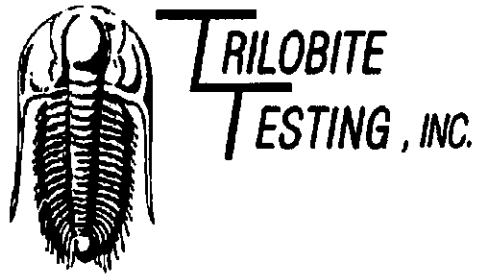
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Well: 10-10-10-10
Date: 10/10/10
Scale: 1:1000
Location: 10-10-10-10
Operator: 10-10-10-10
Company: 10-10-10-10
Project: 10-10-10-10
Sheet: 10-10-10-10

WELL DATA
Well: 10-10-10-10
Date: 10/10/10
Scale: 1:1000
Location: 10-10-10-10
Operator: 10-10-10-10
Company: 10-10-10-10
Project: 10-10-10-10
Sheet: 10-10-10-10

LOG DATA
Well: 10-10-10-10
Date: 10/10/10
Scale: 1:1000
Location: 10-10-10-10
Operator: 10-10-10-10
Company: 10-10-10-10
Project: 10-10-10-10
Sheet: 10-10-10-10

LOG DATA
Well: 10-10-10-10
Date: 10/10/10
Scale: 1:1000
Location: 10-10-10-10
Operator: 10-10-10-10
Company: 10-10-10-10
Project: 10-10-10-10
Sheet: 10-10-10-10





DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Kohl #1-15

15-12-21 Trego,KS

Start Date: 2012.09.28 @ 10:26:49

End Date: 2012.09.28 @ 17:17:28

Job Ticket #: 49447 DST #: 1

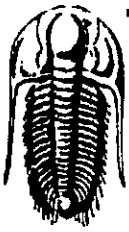
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.02 @ 10:10:10

Dreiling Oil, Inc. 15-12-21 Trego,KS Kohl #1-15 DST # 1 Arbuckle 2012.09.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

15-12-21 Trego,KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49447

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.09.28 @ 10:26:49

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:49

Time Test Ended: 17:17:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3932.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Reference Elevations: 2321.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752 Inside

Press@RunDepth: 72.44 psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.28

End Date: 2012.09.28

Last Calib.: 2012.09.28

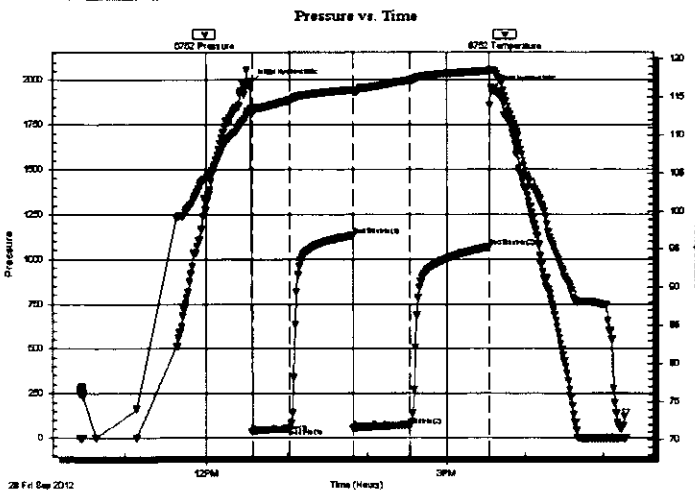
Start Time: 10:26:50

End Time: 17:17:29

Time On Btm: 2012.09.28 @ 12:33:09

Time Off Btm: 2012.09.28 @ 15:34:28

TEST COMMENT: IFP - weak to fair blow 1/4" - 5"
ISI - no blow back
FFP - weak to good blow sur - 8"
FSI - no blow back



PRESSURE SUMMARY

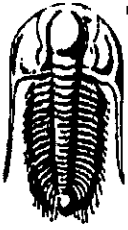
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.61	113.53	Initial Hydro-static
1	33.21	112.80	Open To Flow (1)
29	51.55	114.57	Shut-In(1)
76	1130.76	115.92	End Shut-In(1)
76	54.94	115.70	Open To Flow (2)
119	72.44	117.18	Shut-In(2)
180	1068.32	118.41	End Shut-In(2)
182	1947.25	118.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM 5%G, 15%O, 80%M	0.99
15.00	FREE OIL 95%O, 5%M	0.21
0.00	45' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Drilling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49447

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.09.28 @ 10:26:49

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:49

Time Test Ended: 17:17:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3932.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2321.00 ft (KB)

2314.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6741** Outside

Press@RunDepth: psig @ 3939.00 ft (KB)

Start Date: 2012.09.28

End Date: 2012.09.28

Capacity: 8000.00 psig

Last Calib.: 2012.09.28

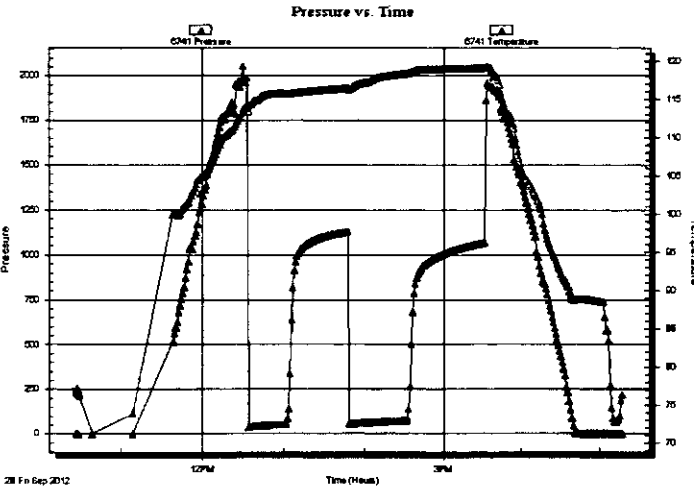
Start Time: 10:26:45

End Time: 17:17:24

Time On Btm

Time Off Btm

TEST COMMENT: IFP - weak to fair blow 1/4" - 5"
ISI - no blow back
FFP - weak to good blow sur - 8"
FSI - no blow back



PRESSURE SUMMARY

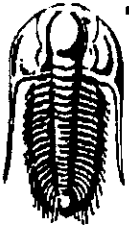
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM 5%G, 15%O, 80%M	0.99
15.00	FREE OIL 95%O, 5%M	0.21
0.00	45' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil, Inc.

15-12-21 Trego,KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49447

DST#: 1

ATTN: Roger Fisher

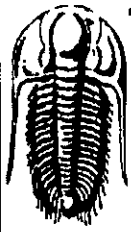
Test Start: 2012.09.28 @ 10:26:49

Tool Information

Drill Pipe:	Length: 3899.00 ft	Diameter: 3.80 inches	Volume: 54.69 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 54.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3932.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	83.00 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			3917.00	
Hydraulic tool	5.00			3922.00	
Packer	5.00			3927.00	20.00 Bottom Of Top Packer
Packer	5.00			3932.00	
Stubb	1.00			3933.00	
Perforations	5.00			3938.00	
Change Over Sub	1.00			3939.00	
Recorder	0.00	6752	Inside	3939.00	
Recorder	0.00	6741	Outside	3939.00	
Blank Spacing	32.00			3971.00	
Change Over Sub	1.00			3972.00	
Perforations	20.00			3992.00	
Bullnose	3.00			3995.00	63.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49447

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.09.28 @ 10:26:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	GOCM 5%G, 15%O, 80%M	0.989
15.00	FREE OIL 95%O, 5%M	0.210
0.00	45' GIP	0.000

Total Length: 105.00 ft

Total Volume: 1.199 bbl

Num Fluid Samples: 0

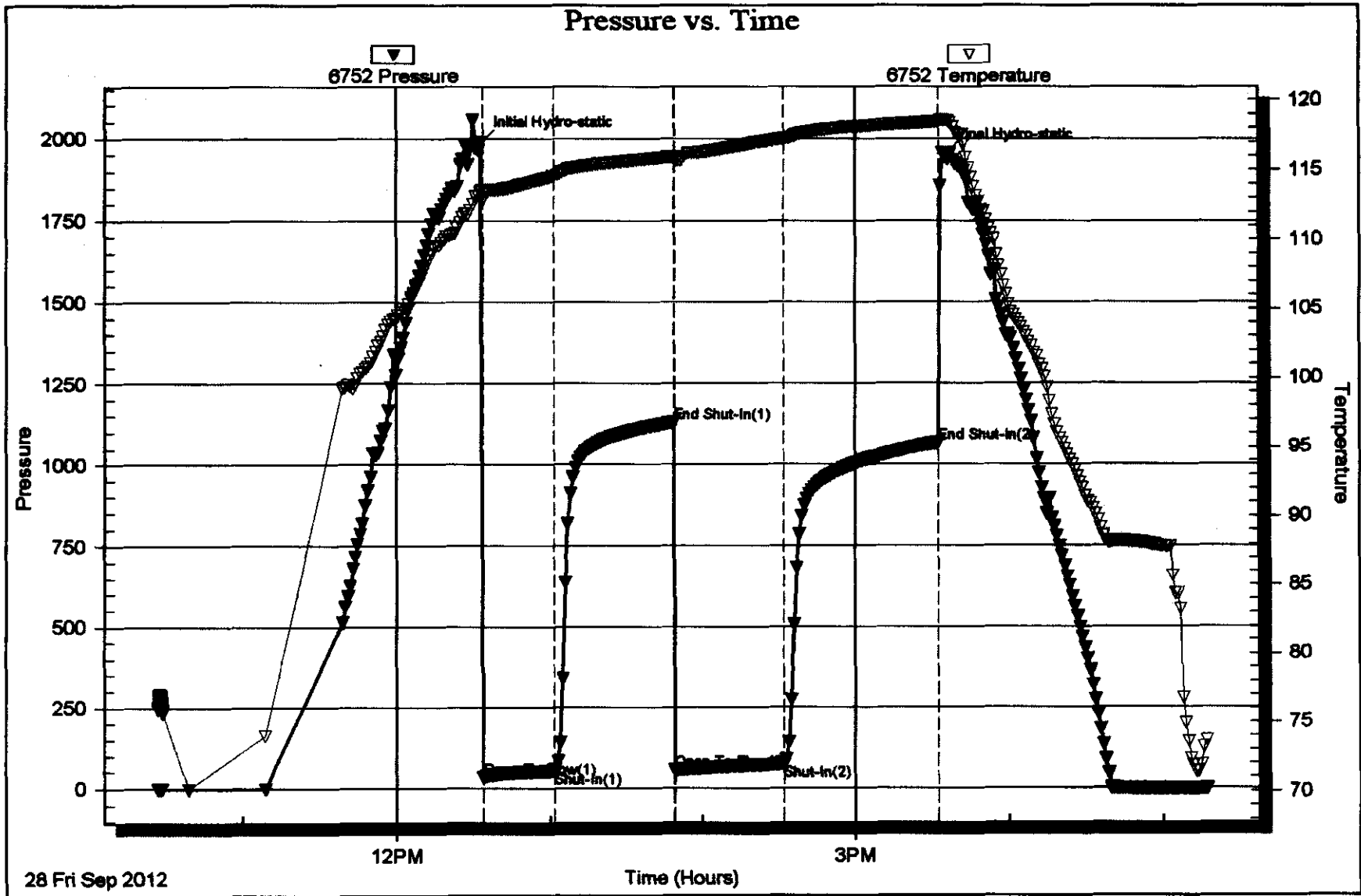
Num Gas Bombs: 0

Serial #:

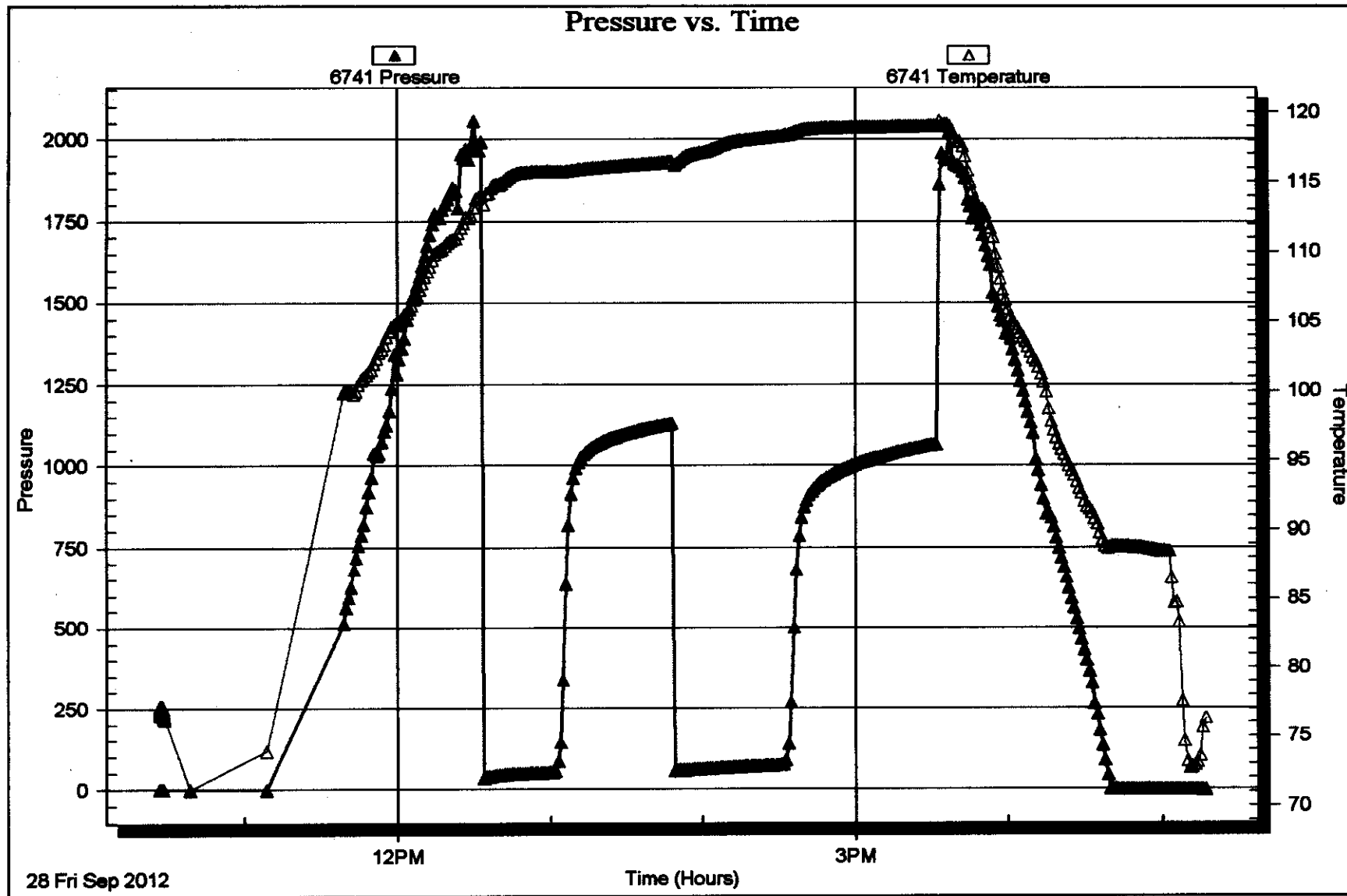
Laboratory Name:

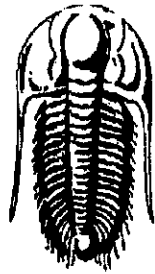
Laboratory Location:

Recovery Comments:



28 Fri Sep 2012





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays, KS 67601

ATTN: Roger Fisher

Kohl #1-15

15-12-21 Trego,KS

Start Date: 2012.09.29 @ 00:35:56

End Date: 2012.09.29 @ 07:38:16

Job Ticket #: 49448 DST #: 2

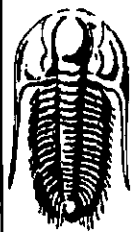
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.02 @ 09:56:16

Dreiling Oil, Inc. 15-12-21 Trego,KS Kohl #1-15 DST # 2 Arbuckle 2012.09.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Drilling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49448

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.09.29 @ 00:35:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:16

Time Test Ended: 07:38:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: **3998.00 ft (KB) To 4013.00 ft (KB) (TVD)**

Reference Elevations: 2321.00 ft (KB)

Total Depth: 4013.00 ft (KB) (TVD)

2314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press@RunDepth: 68.46 psig @ 4000.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.29 End Date: 2012.09.29

Last Calib.: 2012.09.29

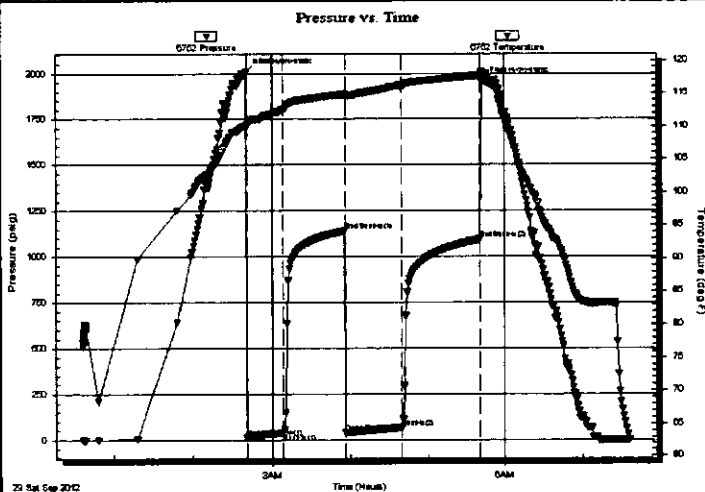
Start Time: 00:35:57 End Time: 07:38:16

Time On Btm: 2012.09.29 @ 02:40:36

Time Off Btm: 2012.09.29 @ 05:43:56

TEST COMMENT: IFP - BOB 26 min
ISI - no blow back
FFP - BOB 26 min
FSI - 1/4" blow back - died 21 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.01	109.86	Initial Hydro-static
1	14.99	110.01	Open To Flow (1)
29	37.82	112.52	Shut-In(1)
76	1140.05	114.84	End Shut-In(1)
76	40.12	114.61	Open To Flow (2)
119	68.46	116.13	Shut-In(2)
180	1094.06	117.64	End Shut-In(2)
184	1954.38	117.90	Final Hydro-static

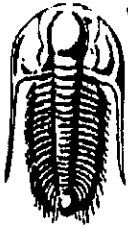
Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 10%G, 60%O, 30%M	0.57
90.00	FREE OIL 95%O, 5%M	1.26
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Drilling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49448

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.09.29 @ 00:35:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:16

Time Test Ended: 07:38:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: **3998.00 ft (KB) To 4013.00 ft (KB) (TVD)**

Total Depth: 4013.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2321.00 ft (KB)

2314.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6741** Outside

Press@RunDepth: psig @ 4000.00 ft (KB)

Start Date: 2012.09.29

End Date:

2012.09.29

Capacity: 8000.00 psig

Last Calib.:

2012.09.29

Start Time: 00:35:49

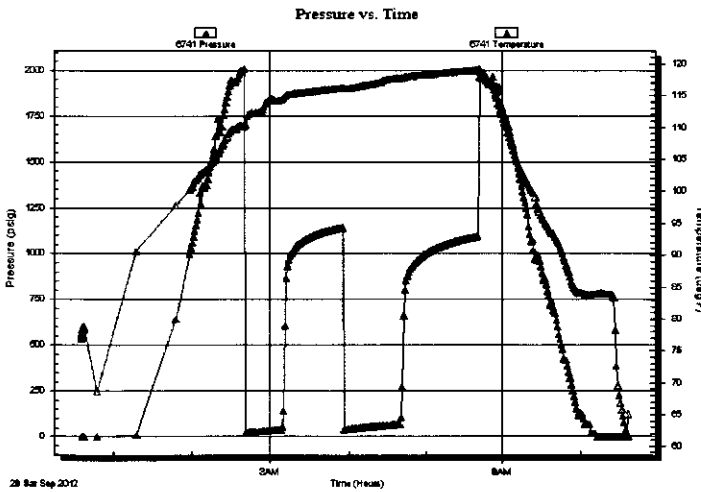
End Time:

07:38:28

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP - BOB 26 min
ISI - no blow back
FFP - BOB 26 min
FSI - 1/4" blow back - died 21 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

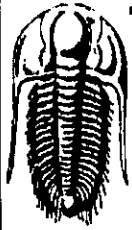
Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 10%G, 60%O, 30%M	0.57
90.00	FREE OIL 95%O, 5%M	1.26
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Drilling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49448

DST#: 2

ATTN: Roger Fisher

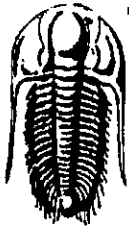
Test Start: 2012.09.29 @ 00:35:56

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3998.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			3983.00	
Hydraulic tool	5.00			3988.00	
Packer	5.00			3993.00	20.00 Bottom Of Top Packer
Packer	5.00			3998.00	
Stubb	1.00			3999.00	
Perforations	1.00			4000.00	
Recorder	0.00	6752	Inside	4000.00	
Recorder	0.00	6741	Outside	4000.00	
Perforations	10.00			4010.00	
Bullnose	3.00			4013.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

15-12-21 Trego, KS

PO Box 550
Hays, KS 67601

Kohl #1-15

Job Ticket: 49448

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.09.29 @ 00:35:56

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 36 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

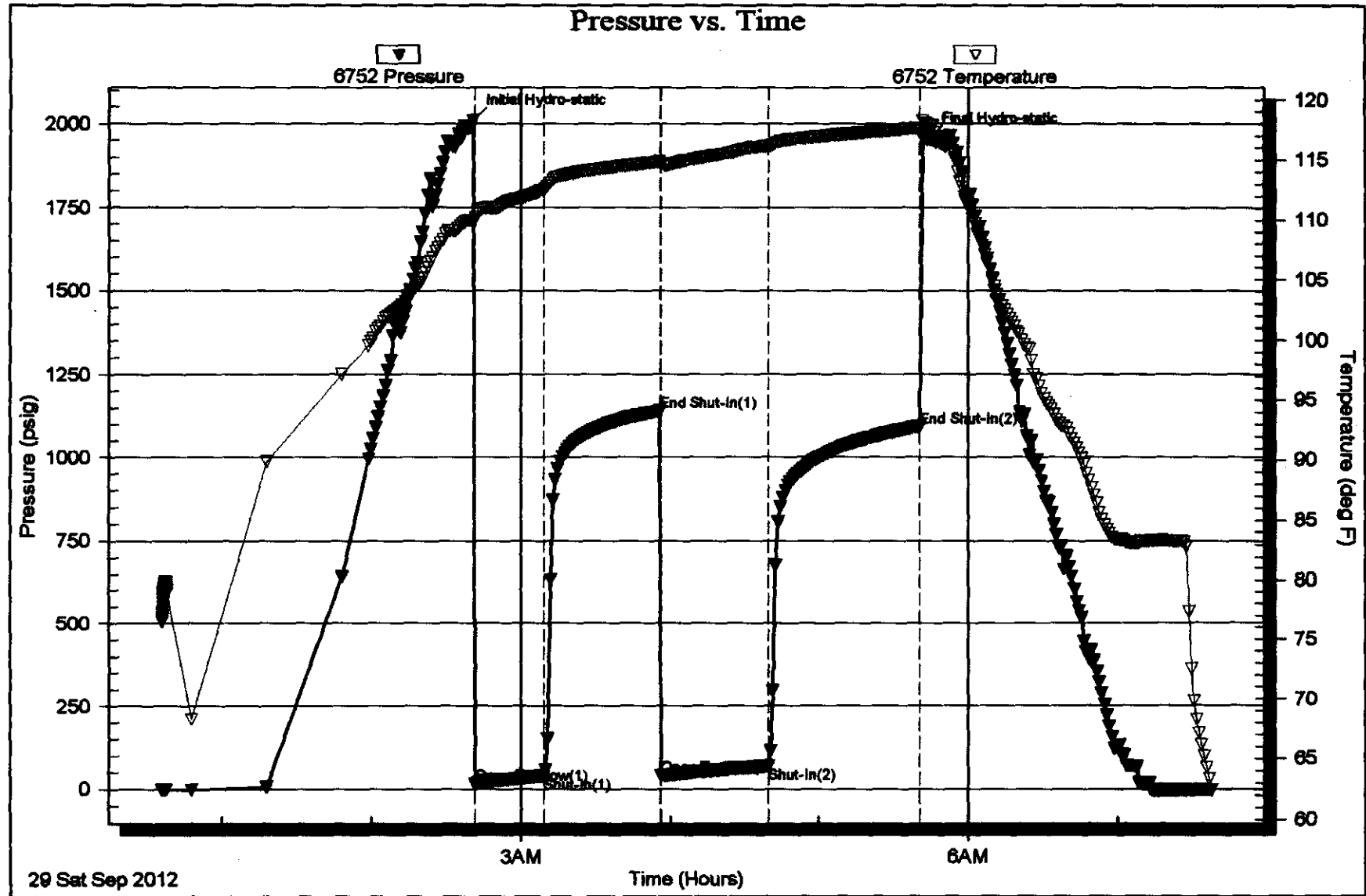
Length ft	Description	Volume bbl
60.00	GMCO 10%G, 60%O, 30%M	0.568
90.00	FREE OIL 95%O, 5%M	1.262
0.00	120' GIP	0.000

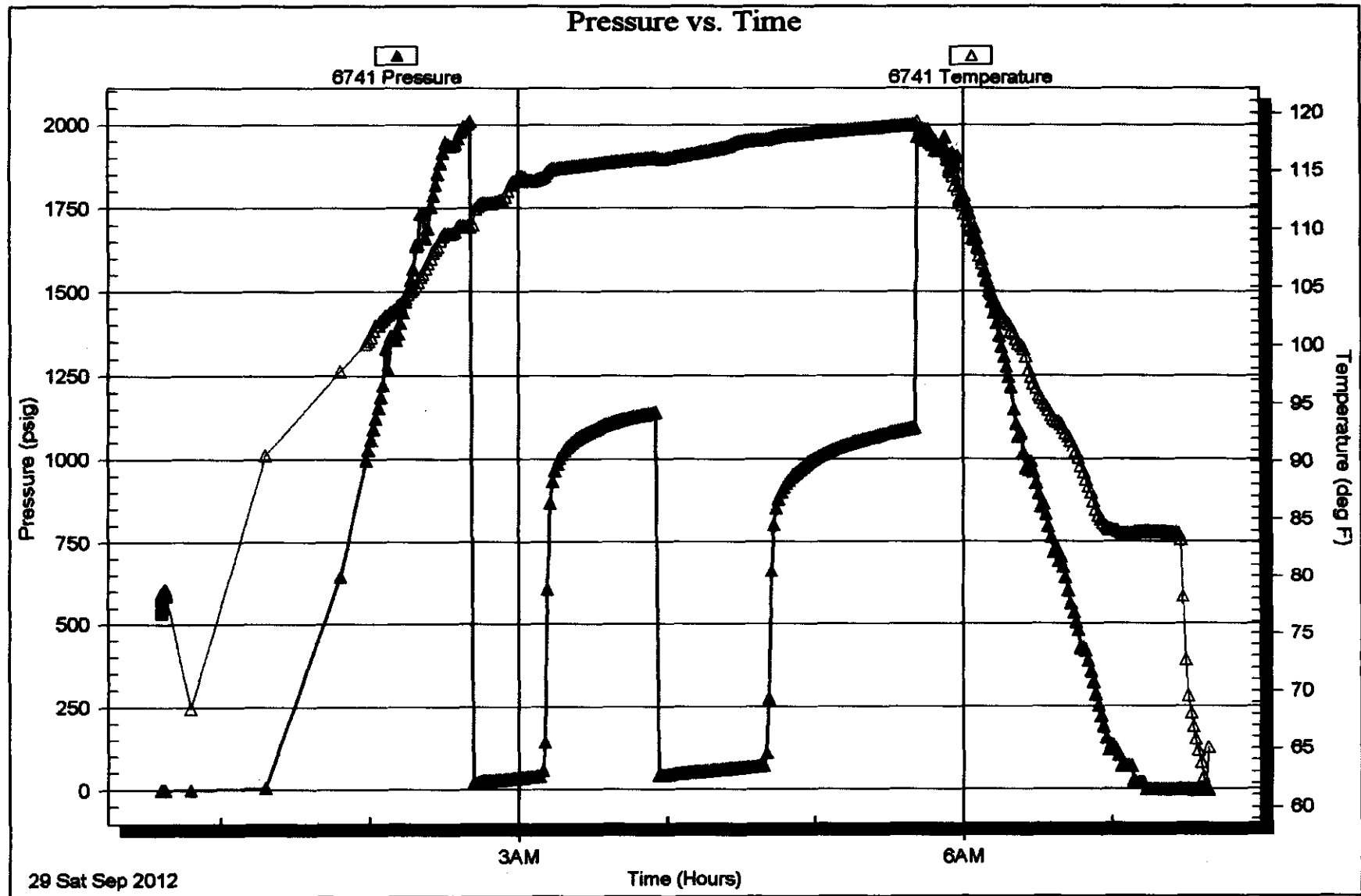
Total Length: 150.00 ft Total Volume: 1.830 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49441

Well Name & No. Kchl 1-15 Test No. 1 Date 9-28-12
 Company Dreiling O.I Elevation 2321 KB 2314 GL
 Address 1008 Cody Ave Po Box 550 Hays, K 67601
 Co. Rep / Geo. Roger Fisher Rig Discovery 3
 Location: Sec. 15 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3932-3995 Zone Tested Arbuckle
 Anchor Length 63 Drill Pipe Run 3899 Mud Wt. 9.2
 Top Packer Depth 3927 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3932 Wt. Pipe Run — WL 8.8
 Total Depth 3995 Chlorides 1500 ppm System LCM

Blow Description IFP - weak to fair blow 1/4" - 5"
ISI - no blow back
FFP - weak to good blow sur - 8"
FSI - no blow back

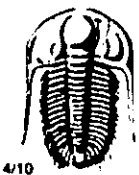
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	Feet of <u>GIP</u>				
<u>15</u>	Feet of <u>Free Oil</u>		<u>95</u>		<u>5</u>
<u>90</u>	Feet of <u>GOCM</u>	<u>5</u>	<u>15</u>		<u>80</u>
	Feet of	%gas	%oil	%water	%mud
	Feet of	%gas	%oil	%water	%mud

Rec Total 105 BHT 119 Gravity 36 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1988 Test 1150 T-On Location 0827
 (B) First Initial Flow 52 33 Jars T-Started 1026
 (C) First Final Flow 52 Safety Joint T-Open 1233
 (D) Initial Shut-In 1131 Circ Sub T-Pulled 1533
 (E) Second Initial Flow 55 Hourly Standby T-Out 1717
 (F) Second Final Flow 72 Mileage 60 RT 93 Comments
 (G) Final Shut-In 1068 Sampler
 (H) Final Hydrostatic 1947 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 45 Extra Packer Extra Copies
 Final Flow 45 Extra Recorder Sub Total 0
 Final Shut-In 60 Day Standby Total 1243
 Accessibility MP/DST Disc't
 Sub Total 1243

Approved By _____ Our Representative Brian Fambard

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49440

Well Name & No. Kohl 1-15 Test No. 2 Date 9-28-12
 Company Dreiling oil Elevation 2321 KB 2314 GL
 Address _____
 Co. Rep / Geo. Roger Fisher Rig Discovery 3
 Location: Sec. 15 Twp. 12 Rge. 21 Co. Trego State ks

Interval Tested 3998-4013 Zone Tested Arbyc 66
 Anchor Length 15 Drill Pipe Run 3960 Mud Wt. 9.2
 Top Packer Depth 3993 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3998 Wt. Pipe Run _____ WL 8.8
 Total Depth 4013 Chlorides 1500 ppm System LCM

Blow Description IFP- BOB 26 m
ISI- no blow back
FFP- BOB 26 m
FST- 4' blow back - died 21 m

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>GIP</u>				
<u>90</u>	<u>Free oil</u>				
<u>60</u>	<u>G.M.C.O</u>	<u>10</u>	<u>60</u>		<u>30</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 150 BHT 118 Gravity 36 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2009 Test 1250 T-On Location 2323
 (B) First Initial Flow 15 Jars T-Started 0035
 (C) First Final Flow 38 Safety Joint T-Open 0240
 (D) Initial Shut-In 1140 Circ Sub T-Pulled 0540
 (E) Second Initial Flow 40 Hourly Standby T-Out 0739
 (F) Second Final Flow 68 Mileage x 2 186 Comments m-leage to load tools
 (G) Final Shut-In 1094 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1954 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Sub Total 0
 Extra Recorder Total 1436
 Day Standby MP/DST Disc'l
 Accessibility
 Sub Total 1436

Approved By _____ Our Representative Brian Fortenak

Triobite 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.

QUALITY OILWELL CEMENTING, INC.

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

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

No. 6549

Date	9-23-12	Sec.	15	Twp.	12	Range	21	County	Typ	State	KS	On Location		Finish	1:15pm
Location <i>Rye v to JRD 1E 14N</i>															

Lease	<i>KOHL</i>	Well No.	<i>1-15</i>	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.
Contractor	<i>D. Scovney #3</i>				
Type Job	<i>Surface</i>				
Hole Size	<i>12 1/4</i>	T.D.	<i>231</i>	Charge To	<i>Dealing Oil</i>
Csg.	<i>8 5/8</i>	Depth	<i>231</i>	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.	<i>15'</i>	Shoe Joint		Cement Amount Ordered	<i>150 LBS 30/42 2/label</i>

Meas Line		Displace	<i>13/2RL</i>	Common	<i>150</i>
EQUIPMENT					
Pumptrk	<i>15</i>	No.		Cement Helper	<i>1</i>
Bulktrk		No.		Driver	<i>1</i>
Bulktrk	<i>14</i>	No.		Driver	<i>1</i>
				Driver	<i>1</i>
				Calcium	<i>5</i>

JOB SERVICES & REMARKS				Hulls	
Remarks:				Salt	
Rat Hole				Flowseal	
Mouse Hole				Kol-Seal	
Centralizers				Mud CLR 48	
Baskets				CFL-117 or CD110 CAF 38	
DV or Port Collar				Sand	
<i>8 5/8 in bottom Fast Circulation</i>				Handling	<i>158</i>
<i>Mix 150 SKL Displace</i>				Mileage	
<i>Cement Circulated</i>					

FLOAT EQUIPMENT			
Guide Shoe			
Centralizer			
Baskets			
AFU Inserts			
Float Shoe			
Latch Down			

Pumptrk Charge	<i>Surface</i>	Tax	
Mileage	<i>29</i>	Discount	
Signature <i>[Signature]</i>		Total Charge	

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Call 785-324-1041

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

No. 6048

Date	10-17-12	Sec.	15	Twp.	12	Range	21	County	Trego	State	KS	On Location	12:30 p.m.
Location								Ryan water tank 1E 3/4 N Winto					

Lease	KOHZ	Well No.	1-15	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.
Contractor	Express				
Type Job	port collar				
Hole Size	7 7/8	T.D.			
Csg.	5 1/2	Depth			
Tbg. Size	7 7/8	Depth			
Tool	port collar	Depth	1748		
Cement Left in Csg.		Shoe Joint			
Charge To		Drilling Oil			
Cement Amount Ordered		250 QMC KATFLD			

Meas Line	Displace	USED 200SK
EQUIPMENT		Common 200

Pumptrk	15	No.	Cementor	E.A.G.	Helper	E.A.G.	Poz. Mix	Gel.	Calcium	Hulls	Salt
Bulktrk		No.	Driver	Mike	Driver						
Bulktrk	13	No.	Driver	Don	Driver						

JOB SERVICES & REMARKS	FLOAT EQUIPMENT
Remarks:	Flowseal 62#
Rat Hole	Kol-Seal
Mouse Hole	Mud CLR 48
Centralizers	CFL-117 or CD110 CAF 38
Baskets	Sand
D/V or Port Collar	Handling 250
	Mileage

Tool @ 1748 test to port. open
 tool Est. Circulation: mix 200SK
 & Displace Cement + Circulate
 Close Tool Pressure to 1000#.
 Run 5 joints & wash clean.

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge	port collar	Tax	
	Mileage	27	Discount	
	Total Charge			

QUALITY OILWELL CEMENTING, INC.

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

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

No. 6016

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-30-12	15	12	21	TREGO	KANSAS		10:35

Location 200A - NTO JED - 1E - 1/2 N - W / INTO

Lease <u>Kohl</u>	Well No. <u># 1-15</u>	Owner <u>DRETLING OIL INC</u>
Contractor <u>DD #3</u>		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 <u>REP. STRING</u>		Charge To <u>DRETLING OIL INC</u>
Hole Size <u>8 7/8</u>	T.D. <u>4075'</u>	Street <u>PO Box 550</u>
Csg. <u>5 1/2" 14# - NEW</u>	Depth <u>4080.40</u>	City <u>HAYS</u> State <u>KS, 67601</u>
Tbg. Size	Depth	
Tool <u>PORT COLLAR</u>	Depth <u>1,748'</u>	The above done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint <u>43.24</u>	Cement Amount Ordered <u>195 COM - 10 SALT</u>

Meas Line	Displace <u>98 2/3 BLS</u>
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EQUIPMENT		Common
Pumptrk # <u>5</u>	No. Cementer Helper <u>BETT</u>	<u>195</u>
Bulktrk #	No. Driver <u>LOWME</u>	Poz. Mix
Bulktrk # <u>HU</u>	No. Driver <u>CISCO</u>	Gel.
		Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt <u>18</u>
Rat Hole <u>30 SKS</u>		Flowseal
Mouse Hole <u>15 SKS</u>		Kol-Seal
Centralizers <u>2, 4, 8, 15, 3, 6, 55</u>		Mud CLR 48 <u>500 GALLONS</u>
Baskets <u>56 PIN # 2</u>		CFL-117 or CD110 CAF 38
DV or Port Collar <u>56 COLLAR</u>		Sand
		Handling <u>2/3</u>
		Mileage

JOB SERVICES & REMARKS		Float Equipment
<u>DROPPED BALL & ESTABLISHED CIRCULATION. CIRCULATED ON - BOTTOM he - MADE CONNECTION</u>		Guide Shoe
<u>PUMPED 500 GAL OF MUD CLR 48 - PLUGGED RAT HOLE 30 SKS - PLUGGED MOUSE HOLE 15 SKS - MIXED & PUMPED 150 SKS DOWN 5 1/2" - DISCONNECTED</u>		Centralizer <u>5-5 1/2" TURBOS</u>
<u>DROPPED PLUG & WASHED DUMP - MADE CONNECTION & DISPLACED - PLUG LANDED & HELD!</u>		Baskets <u>1-5 1/2" BASKET</u>
		AFU Inserts
		Float Shoe <u>1-5 1/2"</u>
		Latch Down <u>1-5 1/2" W/PLUG</u>
		<u>1-5 1/2" PORT COLLAR</u>

Pumptrk Charge <u>PROD LONG STRING</u>	Tax
Mileage <u>29</u>	Discount
	Total Charge

THANK YOU!
 x Ferry W. Pecher
 Signature