



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1148856
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: _____



1148856

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
--	---

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	McGrath Unit 36-1
Doc ID	1148856

All Electric Logs Run

Sonic Cement Bond log
Microresistivity log
Dual induction
Dual Compensated Porosity log



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

McGrath Unit W #36-1

36-9s-25w Graham,KS

Start Date: 2013.04.20 @ 13:15:00

End Date: 2013.04.20 @ 21:16:30

Job Ticket #: 50283 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.26 @ 15:39:20

H&C Oil Operating Inc.

36-9s-25w Graham,KS

McGrath Unit W #36-1

DST # 1

KC "C,D"

2013.04.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

ATTN: Marc Downing

Job Ticket: 50283

DST#: 1

Test Start: 2013.04.20 @ 13:15:00

GENERAL INFORMATION:

Formation: **KC"C,D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:17:00

Time Test Ended: 21:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3835.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2502.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2497.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press @ RunDepth: 93.34 psig @ 3836.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.20 End Date: 2013.04.20

Last Calib.: 2013.04.20

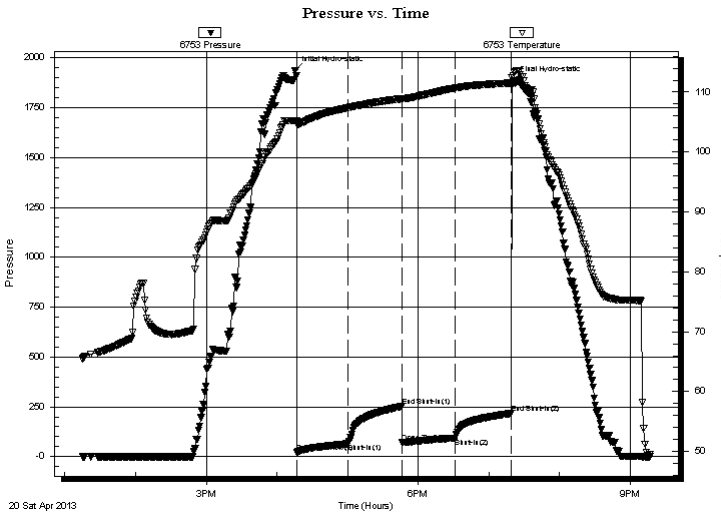
Start Time: 13:15:05 End Time: 21:16:29

Time On Btm: 2013.04.20 @ 16:15:30

Time Off Btm: 2013.04.20 @ 19:20:30

TEST COMMENT: IF-BOB in 32 min
ISI-Weak surface blow
FF-6" blow
FSI-No blow

PRESSURE SUMMARY



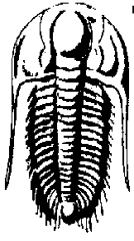
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.24	105.27	Initial Hydro-static
2	23.32	104.69	Open To Flow (1)
45	65.15	107.39	Shut-In(1)
91	251.34	108.87	End Shut-In(1)
91	69.88	108.83	Open To Flow (2)
136	93.34	110.66	Shut-In(2)
184	216.59	111.54	End Shut-In(2)
185	1884.75	112.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 5%G 25%O 70%M	0.84
125.00	GO 20%G 80%O	1.75
0.00	60ft GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50283 **DST#: 1**

ATTN: Marc Downing

Test Start: 2013.04.20 @ 13:15:00

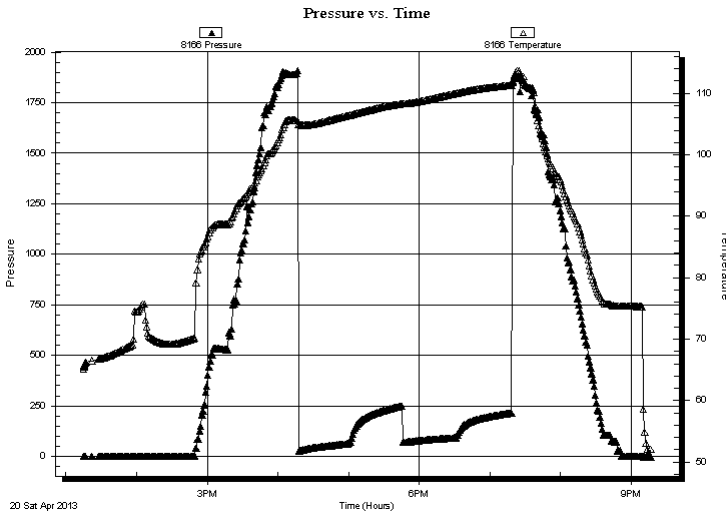
GENERAL INFORMATION:

Formation: **KC"C,D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:17:00
 Time Test Ended: 21:16:30
 Interval: **3835.00 ft (KB) To 3880.00 ft (KB) (TVD)**
 Total Depth: 3880.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2502.00 ft (KB)
 2497.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press @ Run Depth: psig @ 3836.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.20 End Date: 2013.04.20 Last Calib.: 2013.04.20
 Start Time: 13:15:05 End Time: 21:16:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 32 min
 ISI-Weak surface blow
 FF-6" blow
 FSI-No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 5%G 25%O 70%M	0.84
125.00	GO 20%G 80%O	1.75
0.00	60ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50283

DST#: 1

ATTN: Marc Downing

Test Start: 2013.04.20 @ 13:15:00

Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 53.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3835.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3815.00	
Shut In Tool	5.00			3820.00	
Hydraulic tool	5.00			3825.00	
Packer	5.00			3830.00	21.00 Bottom Of Top Packer
Packer	5.00			3835.00	
Stubb	1.00			3836.00	
Recorder	0.00	6753	Inside	3836.00	
Recorder	0.00	8166	Outside	3836.00	
Perforations	7.00			3843.00	
Change Over Sub	1.00			3844.00	
Drill Pipe	32.00			3876.00	
Change Over Sub	1.00			3877.00	
Bullnose	3.00			3880.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50283

DST#: 1

ATTN: Marc Downing

Test Start: 2013.04.20 @ 13:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	SGOCM 5%G 25%O 70%M	0.842
125.00	GO 20%G 80%O	1.753
0.00	60ft GIP	0.000

Total Length: 185.00 ft

Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

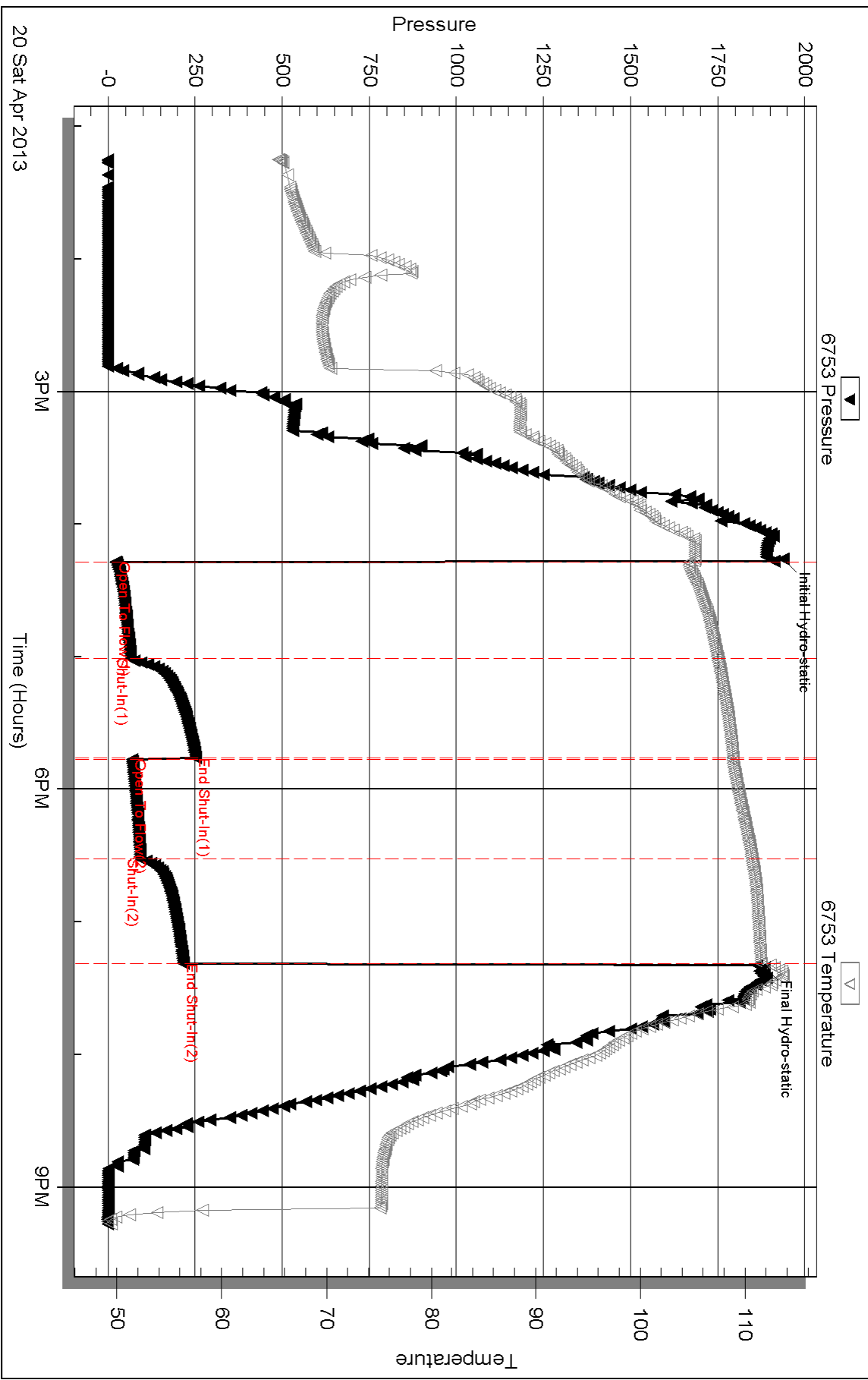
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

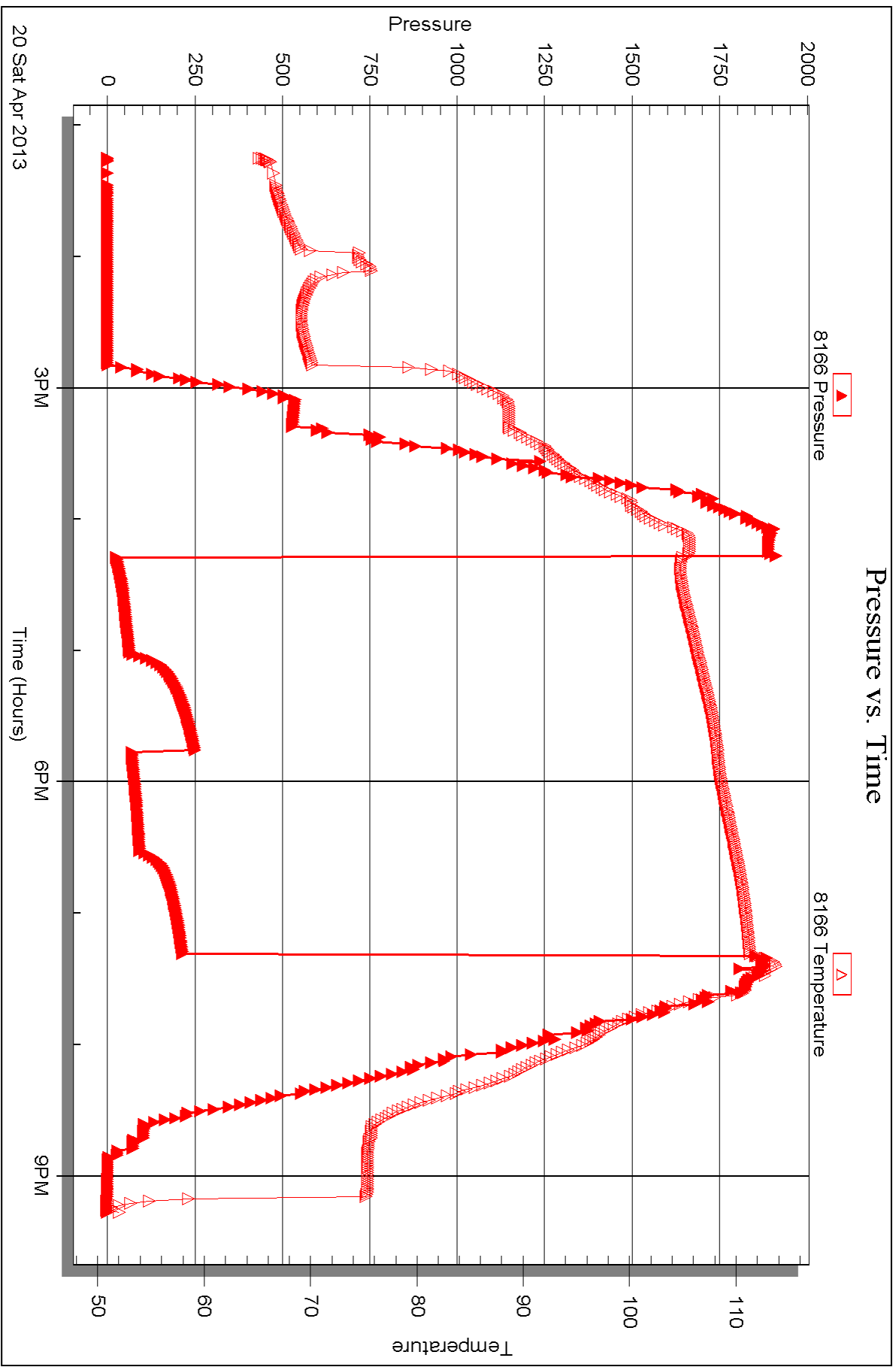


Serial #: 8166

Outside H&C Oil Operating Inc.

McGrath Unit W#36-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50283

Printed: 2013.04.26 @ 15:39:23



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

McGrath Unit W #36-1

36-9s-25w Graham,KS

Start Date: 2013.04.21 @ 06:10:00

End Date: 2013.04.21 @ 13:15:30

Job Ticket #: 50284 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.26 @ 15:38:08

H&C Oil Operating Inc.

36-9s-25w Graham,KS

McGrath Unit W #36-1

DST # 2

KC "F"

2013.04.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

ATTN: Marc Downing

Job Ticket: 50284

DST#: 2

Test Start: 2013.04.21 @ 06:10:00

GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:41:30

Time Test Ended: 13:15:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3881.00 ft (KB) To 3911.00 ft (KB) (TVD)

Reference Elevations: 2502.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2497.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ RunDepth: 25.33 psig @ 3882.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21

End Date:

2013.04.21

Last Calib.:

2013.04.21

Start Time: 06:10:05

End Time:

13:15:29

Time On Btm:

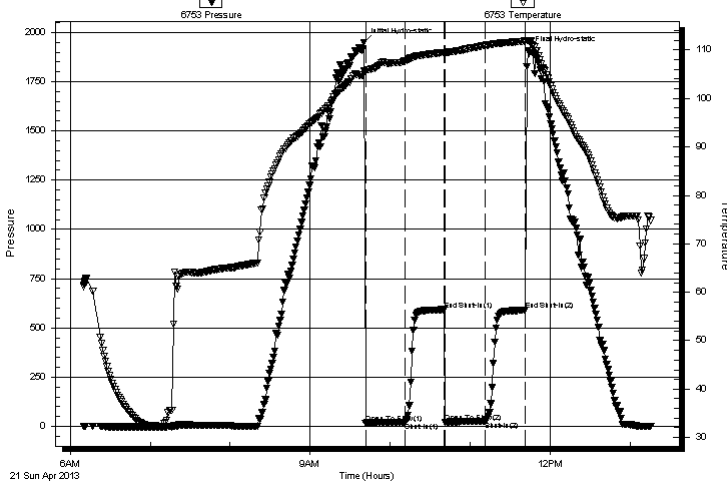
2013.04.21 @ 09:40:30

Time Off Btm:

2013.04.21 @ 11:43:30

TEST COMMENT: IF-1" blow
ISI-No blow
FF-Weak surface blow
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.69	105.64	Initial Hydro-static
1	17.09	105.50	Open To Flow (1)
31	20.80	107.75	Shut-In(1)
60	592.74	109.53	End Shut-In(1)
61	22.27	109.39	Open To Flow (2)
91	25.33	110.99	Shut-In(2)
121	589.85	111.85	End Shut-In(2)
123	1907.09	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil spotted mud	0.28

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham, KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

ATTN: Marc Downing

Job Ticket: 50284

DST#: 2

Test Start: 2013.04.21 @ 06:10:00

GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:41:30

Time Test Ended: 13:15:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3881.00 ft (KB) To 3911.00 ft (KB) (TVD)

Reference Elevations: 2502.00 ft (KB)

Total Depth: 3911.00 ft (KB) (TVD)

2497.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press @ RunDepth: psig @ 3882.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.21

End Date: 2013.04.21

Last Calib.: 2013.04.21

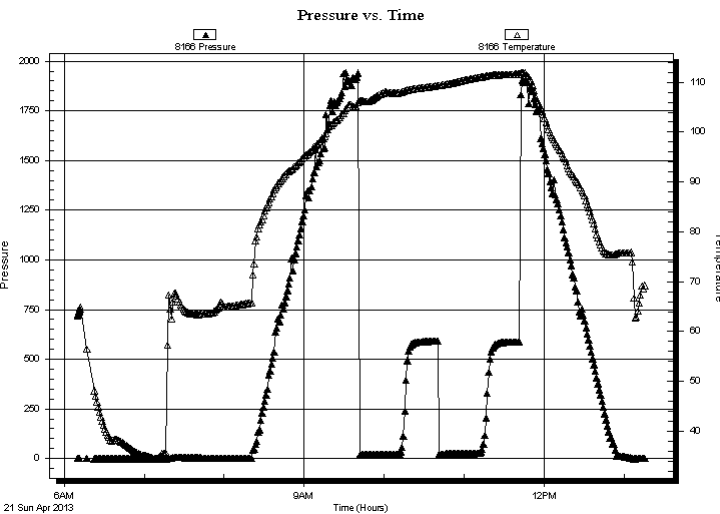
Start Time: 06:10:05

End Time: 13:15:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-1" blow
ISI-No blow
FF-Weak surface blow
FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil spotted mud	0.28

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50284

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.21 @ 06:10:00

Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3881.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3861.00	
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Packer	5.00			3876.00	21.00 Bottom Of Top Packer
Packer	5.00			3881.00	
Stubb	1.00			3882.00	
Recorder	0.00	6753	Inside	3882.00	
Recorder	0.00	8166	Outside	3882.00	
Perforations	26.00			3908.00	
Bullnose	3.00			3911.00	30.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50284

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.21 @ 06:10:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Oil spotted mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

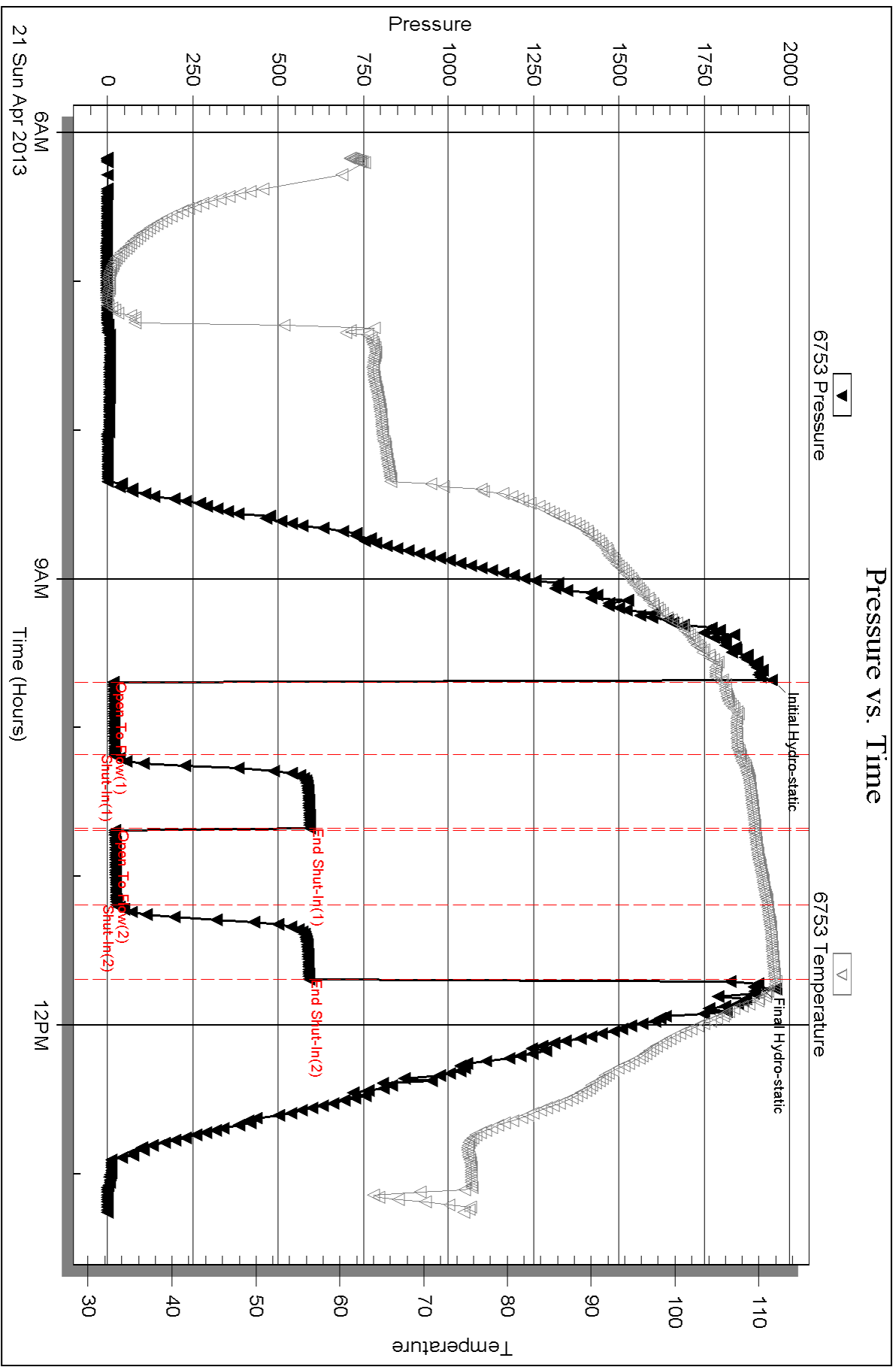
Num Gas Bombs: 0

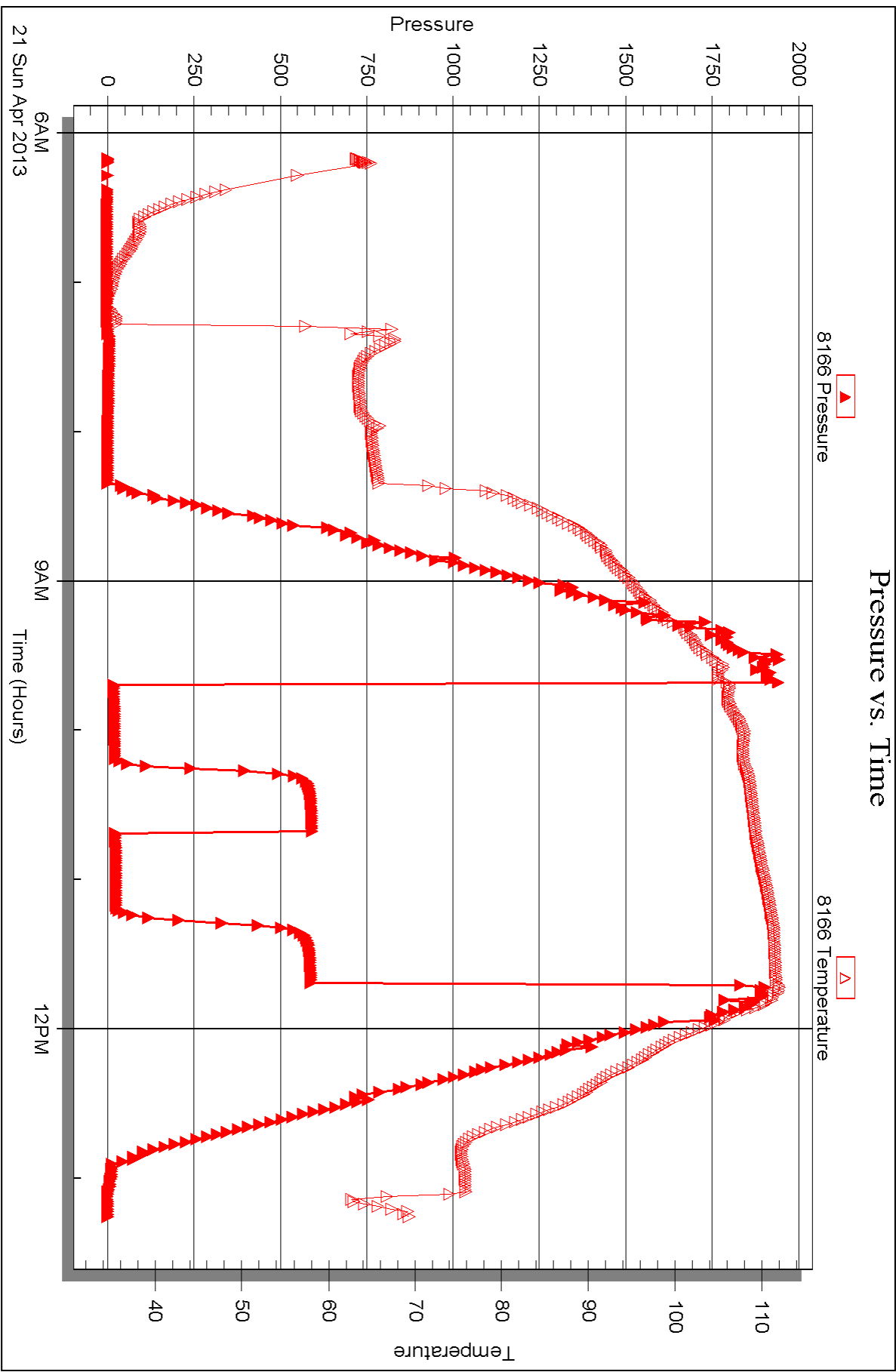
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

McGrath Unit W #36-1

36-9s-25w Graham,KS

Start Date: 2013.04.22 @ 14:50:00

End Date: 2013.04.22 @ 21:44:00

Job Ticket #: 50285 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.26 @ 15:31:26

H&C Oil Operating Inc.

36-9s-25w Graham,KS

McGrath Unit W #36-1

DST # 3

KC"H-I"

2013.04.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

ATTN: Marc Downing

Job Ticket: 50285

DST#: 3

Test Start: 2013.04.22 @ 14:50:00

GENERAL INFORMATION:

Formation: **KC"H-I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:42:00

Time Test Ended: 21:44:00

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3940.00 ft (KB) To 4014.00 ft (KB) (TVD)

Reference Elevations: 2502.00 ft (KB)

Total Depth: 4104.00 ft (KB) (TVD)

2497.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 39.30 psig @ 4010.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.22

End Date:

2013.04.22

Last Calib.:

2013.04.22

Start Time: 14:50:05

End Time:

21:43:59

Time On Btm:

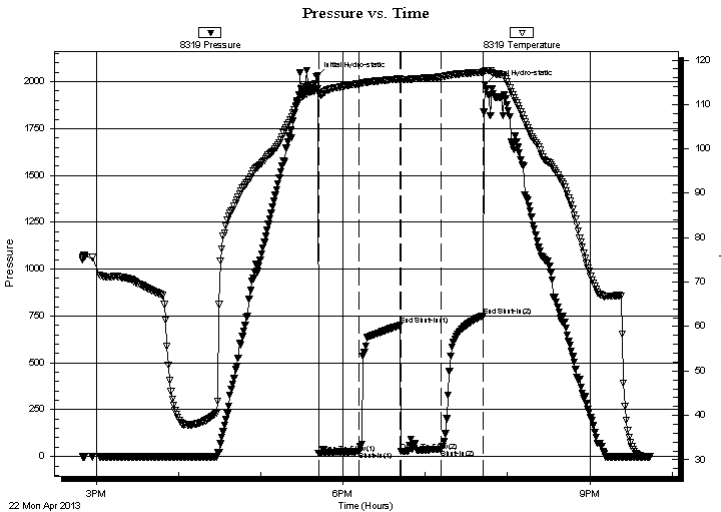
2013.04.22 @ 17:41:00

Time Off Btm:

2013.04.22 @ 19:43:30

TEST COMMENT: IF-1.25in blow
ISI-No blow
FF-1/8in blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.03	113.47	Initial Hydro-static
1	16.12	112.65	Open To Flow (1)
31	26.04	114.63	Shut-In(1)
61	700.15	115.72	End Shut-In(1)
62	27.74	115.58	Open To Flow (2)
91	39.30	116.24	Shut-In(2)
121	750.92	117.25	End Shut-In(2)
123	1984.86	117.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud	0.63

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

ATTN: Marc Downing

Job Ticket: 50285 **DST#: 3**

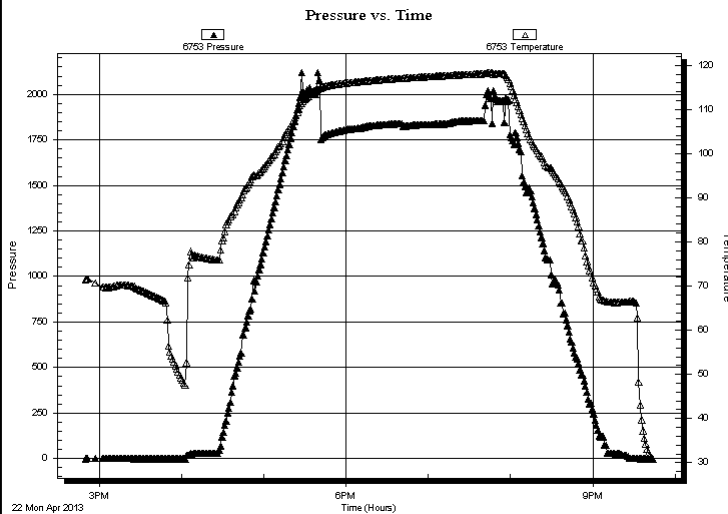
Test Start: 2013.04.22 @ 14:50:00

GENERAL INFORMATION:

Formation: **KC"H-I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:42:00
 Time Test Ended: 21:44:00
 Interval: **3940.00 ft (KB) To 4014.00 ft (KB) (TVD)**
 Total Depth: 4104.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2502.00 ft (KB)
 2497.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 Below (Straddle)
 Press@RunDepth: psig @ 4019.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.22 End Date: 2013.04.22 Last Calib.: 2013.04.22
 Start Time: 14:50:05 End Time: 21:43:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-1.25in blow
 IS- No blow
 FF-1/8in blow
 FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50285

DST#: 3

ATTN: Marc Downing

Test Start: 2013.04.22 @ 14:50:00

Tool Information

Drill Pipe:	Length: 3934.00 ft	Diameter: 3.80 inches	Volume: 55.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 55.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3940.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	4014.00 ft				
Interval between Packers:	74.00 ft				
Tool Length:	186.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3921.00	
Shut In Tool	5.00			3926.00	
Hydraulic tool	5.00			3931.00	
Packer	4.00			3935.00	20.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Perforations	1.00			3942.00	
change Over Sub	1.00			3943.00	
Blank Spacing	61.00			4004.00	
change Over Sub	1.00			4005.00	
Perforations	5.00			4010.00	
Recorder	0.00	8319	Inside	4010.00	
Recorder	0.00	8166	Outside	4010.00	
Blank Off Sub	4.00			4014.00	74.00 Tool Interval
Packer	4.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	6753	Below	4019.00	
perforations	20.00			4039.00	
Change Over Sub	1.00			4040.00	
Blank Spacing	62.00			4102.00	
Change Over Sub	1.00			4103.00	
Bullnose	3.00			4106.00	92.00 Bottom Packers & Anchor
Total Tool Length:	186.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

McGrath Unit W #36-1

Job Ticket: 50285

DST#: 3

ATTN: Marc Downing

Test Start: 2013.04.22 @ 14:50:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

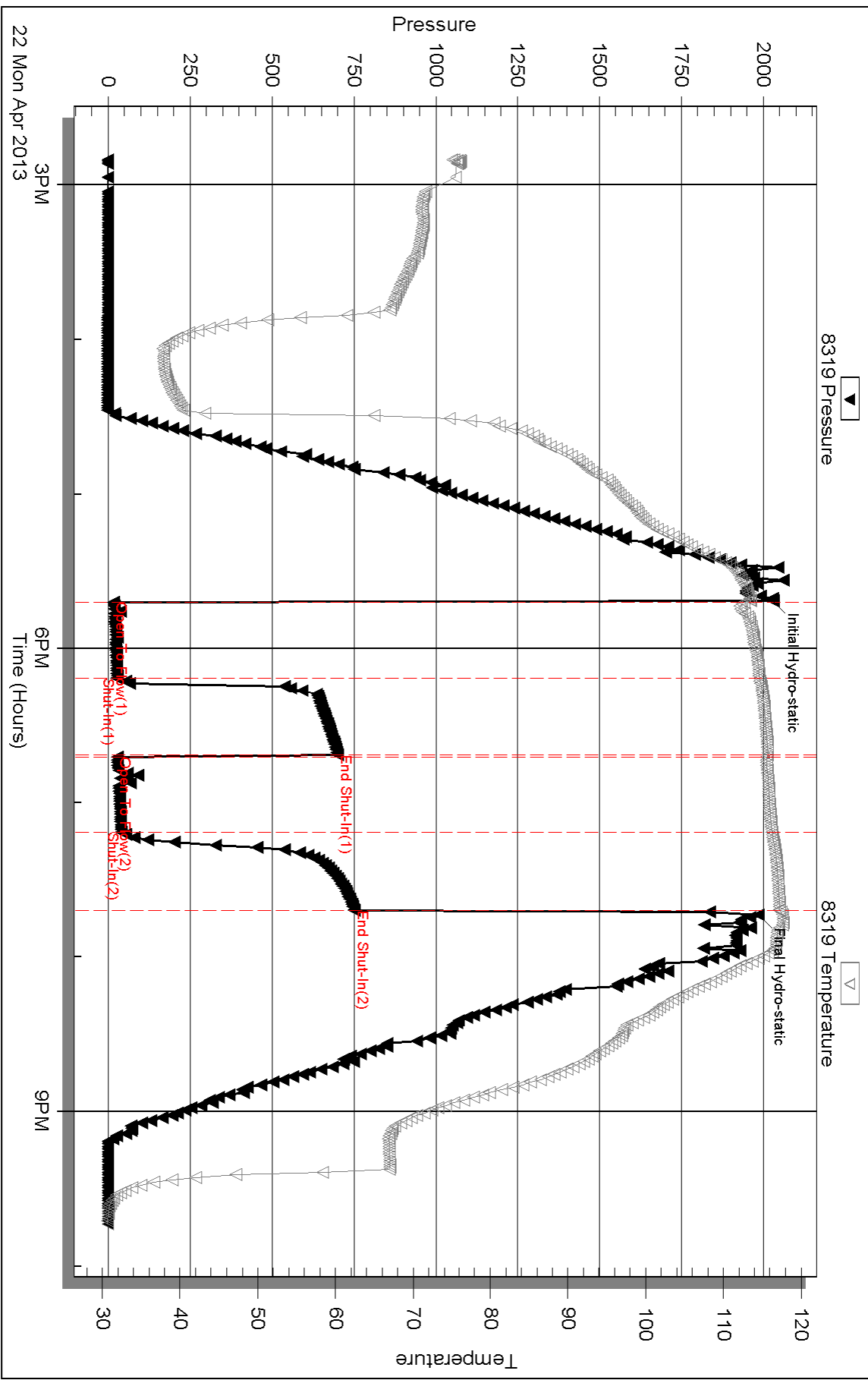
Serial #:

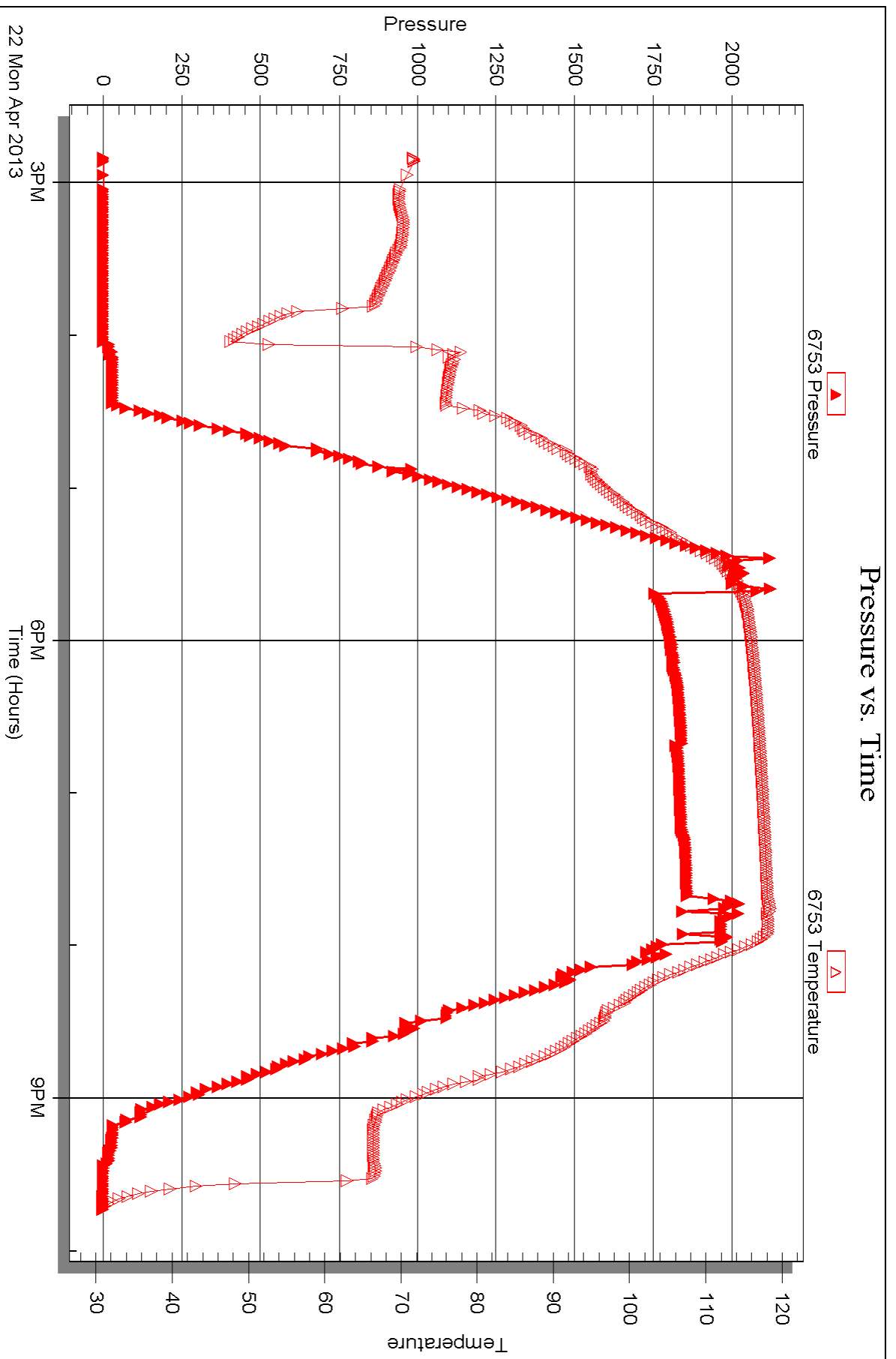
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



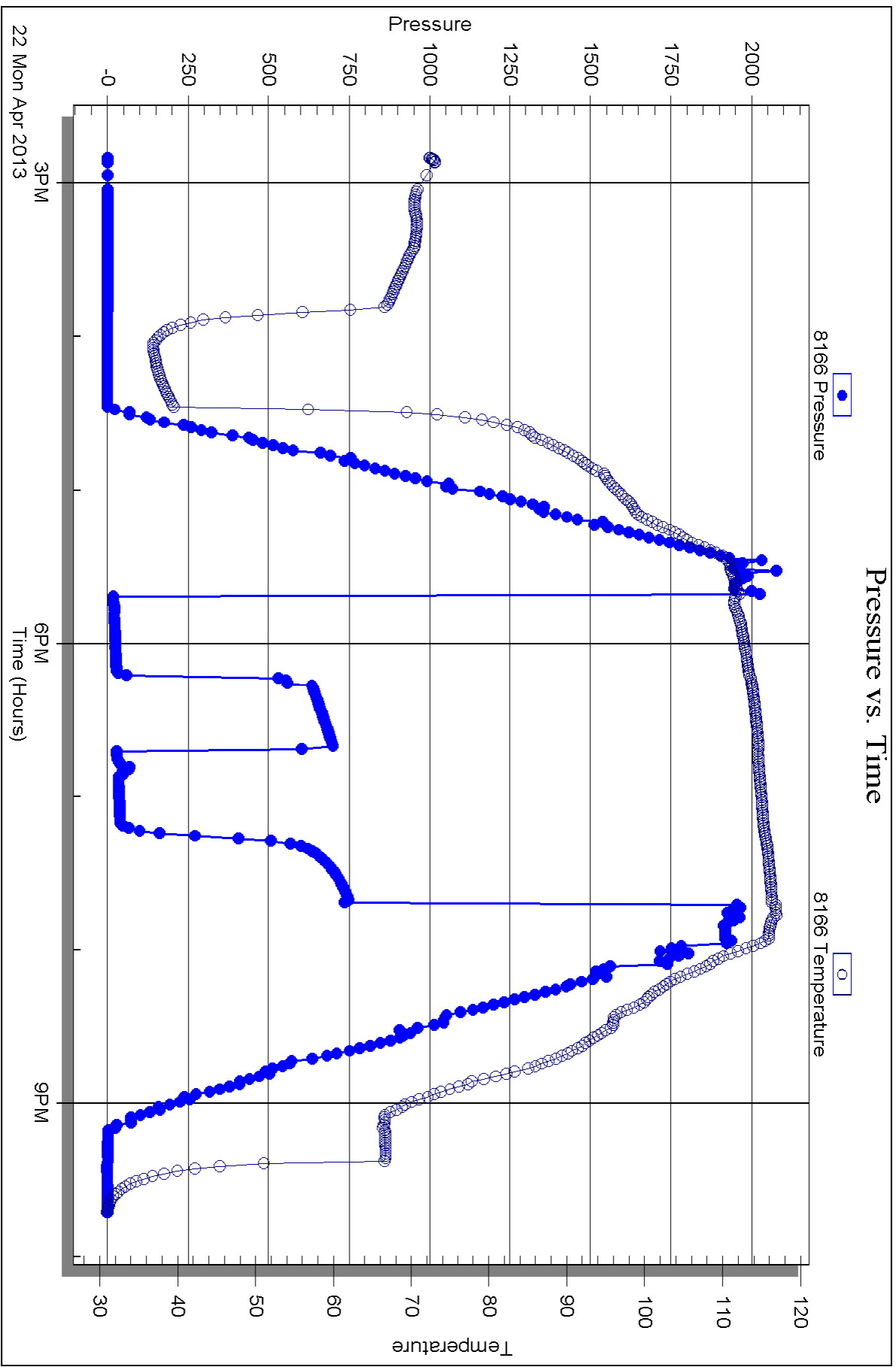


Serial #: 8166

Outside H&C Oil Operating Inc.

McGrath Unit W#36-1

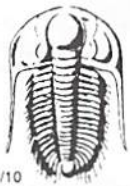
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50285

Printed: 2013.04.26 @ 15:31:30



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50283

Well Name & No. McGrath Unit Well #36-1 Test No. 1 Date 4/20/13
 Company H&C Oil Operating Inc. Elevation 2502 KB 2497 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 36 Twp. 9s Rge. 25w Co. Graham State KS

Interval Tested 3835 - 3880 Zone Tested KC" C, D"
 Anchor Length 45 Drill Pipe Run 3840 Mud Wt. 9.2
 Top Packer Depth 3830 Drill Collars Run — Vis 60
 Bottom Packer Depth 3835 Wt. Pipe Run — WL 6.8
 Total Depth 3880 Chlorides 1,400 ppm System LCM 2

Blow Description IF - BOB in 32min
ISF - weak surface bb
FF - 6in blow
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>SGOCM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
<u>125</u>	<u>60</u>	<u>30</u>	<u>70</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>60ft GFP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

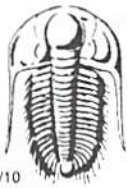
Rec Total 185 BHT 112 Gravity 28 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 1,937 Test 1150 T-On Location 11:00
 (B) First Initial Flow 23 Jars T-Started 13:15
 (C) First Final Flow 65 Safety Joint T-Open 16:15
 (D) Initial Shut-In 251 Circ Sub T-Pulled 19:15
 (E) Second Initial Flow 20 Hourly Standby T-Out 21:20
 (F) Second Final Flow 93 Mileage 127ft 196.85 Comments
 (G) Final Shut-In 217 Sampler
 (H) Final Hydrostatic 1,885 Straddle Ruined Shale Packer

Initial Open 45 Shale Packer Ruined Packer
 Initial Shut-In 45 Extra Packer Extra Copies
 Final Flow 45 Extra Recorder Sub Total 0
 Final Shut-In 45 Day Standby Total 1346.85
 Accessibility MP/DST Disc't
 Sub Total 1346.85

Approved By _____ Our Representative Burt Dahn

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. 50284

4/10

Well Name & No. McGrath Unit well #36-1 Test No. 2 Date 4/21/13
 Company H&C Oil Operating Inc. Elevation 2502 KB 2497 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 36 Twp. 9s Rge. 25w Co. Graham State KS

Interval Tested 3881 - 3911 Zone Tested KC⁴F¹¹
 Anchor Length 30 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3876 Drill Collars Run — Vis _____
 Bottom Packer Depth 3881 Wt. Pipe Run — WL _____
 Total Depth 3911 Chlorides _____ ppm System LCM _____

Blow Description IF - lin blow
7SI - No blow
FF - weak surface blow
FSE - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil spotted Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

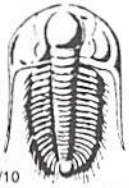
Rec Total 20 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,948 Test 1150 T-On Location 5:20
 (B) First Initial Flow 17 Jars T-Started 6:10
 (C) First Final Flow 21 Safety Joint T-Open 9:33
 (D) Initial Shut-In 593 Circ Sub T-Pulled 11:33
 (E) Second Initial Flow 22 Hourly Standby T-Out 13:05
 (F) Second Final Flow 25 Mileage 127.7 196.85 Comments _____
 (G) Final Shut-In 590 Sampler _____
 (H) Final Hydrostatic 1,907 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 30 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1346.85
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1346.85

Approved By _____ Our Representative Burt Down

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. 50285

Well Name & No. McGrath Unit Well #36-1 Test No. 3 Date 4/22/13
 Company H&C O.I. Operating Inc. Elevation 2502 KB 2497 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 36 Twp. 9s Rge. 25w Co. Graham State KS

Interval Tested 3940-4014 Zone Tested KC "H-I"
 Anchor Length 74 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3935, 3940 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3014 Wt. Pipe Run _____ WL _____
 Total Depth 4104 Chlorides _____ ppm System LCM _____

Blow Description FF - 1 1/4 in blow
FSI - No blow
FP - 1/8 in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,025 Test 1250 T-On Location 13:10
 (B) First Initial Flow 16 Jars _____ T-Started 14:50
 (C) First Final Flow 26 Safety Joint _____ T-Open 17:40
 (D) Initial Shut-In 700 Circ Sub _____ T-Pulled 19:40
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 21:45
 (F) Second Final Flow 39 Mileage 127rt 196.85 Comments _____
 (G) Final Shut-In 751 Sampler _____
 (H) Final Hydrostatic 1485 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 2046.85
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2046.85

Approved By _____ Our Representative Ben Dow

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.

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

June 19, 2013

Charles Ramsay
H & C Oil Operating Inc.
PO BOX 86
PLAINVILLE, KS 67663-0086

Re: ACO1
API 15-065-23918-00-00
McGrath Unit 36-1
S/2 Sec.36-09S-25W
Graham 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,
Charles Ramsay

QUALITY CILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107 Home Office P.O. Box 32 Russell, KS 67665 No. 68

5-483-2025
24-1041

22-13	Sec.	Twp.	Range	County	State	On Location	F
GRAHAM	GRAHAM	KANSAS					4:00
Well No. #36-1				Location WAKESNEY N to Red Mine S			
Owner H & C OIL							
To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and for a cementer and helper to assist owner or contractor to do work at							
T.D.	Charge To	H & C OIL					
Depth	Street						
Depth	City	PLAINVILLE	State	KS,			
Depth	The above was done to satisfaction and supervision of owner agent or						
Shoe Joint	Depth	2,173'	Cement Amount Ordered 400 QMDC - 1/4# FLS				
Displace	Used 155 lbs.						
EQUIPMENT							
No.	Cementer	Common 150					
Helper	CISCO A.						
No.	Driver	POZ. MIX					
Driver	GEL.						
Driver	CALCIUM						
Driver	HULLS						
JOB SERVICES & REMARKS							
Salt							
Flowseal @ 50H							
Kol-Seal							
Mud CLR 48							
CFL-117 or CD110 CAF 38							
Sand 2							
Handling 400							
Mileage							
FLOAT EQUIPMENT							
Guide Shoe							
Centralizer							
Baskets							
AFU Inserts							
Float Shoe							
Latch Down							
Pumptrk Charge							
Mileage 47 part collar							
Tax							
Discount							
Total Charge							

2,173'
@ 2,792'
@ 2,240'
TOOL PUMP TO 1,500 LBS - HELD
STOOL PUMPED 80 BOLS OF MUD
MUD WITH 150 SKS OF QMDC
TOOL TESTED TO 1,000 HELD
MUD SAND LET FALL 1 hr.
D MUD.
JOINTS WASHED OUT - RAN
WASHED SAND OUT.
THANK YOU!
Bob Alanta

QUALITY CILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

67

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

No.

5-483-2025

3324-1041

3-13	36 9	25	Cochran	KS	On Location	8' in
Cmth Unit		Well No. 36-1		Owner		
American Eagle #3				To Quality Oilwell Cementing, Inc.		
Production String				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work at		
738	T.D. 4100	Charge To		H&C		
42	Depth 4102	Street		State		
Collar	Depth 2173	City		The above was done to satisfaction and supervision of owner agent or		
Joint in Csg. 22.23	Shoe Joint 22.23	Cement Amount Ordered		210 Proc 10% bet +		
Displace		Common		5% Libonye 14#770 Seegal med clear		
EQUIPMENT		Cement		210		
9 No. Cementer	Helper	Poz. Mix		Gel,		
No. Driver	Driver	Calcium		Hulls		
14 No. Driver	Driver	Salt		18		
JOB SERVICES & REMARKS		Flowseal		52#		
30SK		Kol-Seal		1050 #		
		Mud CLR 48		500 gal		
		CFL-117 or CD110 CAF88		Sand		
		Handling		238		
		Mileage		FLOAT EQUIPMENT		
		Guide Shoe		10 Turbo's		
		Baskets		5		
		Attachments		Port Collar		
		Float Shoe		1		
		Latch Down		1		
		Pumptrk Charge		407		
		Mileage		Tax		
				Discount		
				Total Charge		
Bob Plante						

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 66

5-483-2025
3324-1041

Sec. 15-13	Twp. 36 9	Range 25	County Lehigh	State KS	On Location																																																																																																																																																																								
Well No. 36-1			Location <i>Wakerny 2 Reel line 100 to 1000 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 at																																																																																																																																																																													
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<table border="1"> <tr> <th colspan="2">EQUIPMENT</th> <th colspan="4">JOB SERVICES & REMARKS</th> </tr> <tr> <td>No. 1</td> <td>Cement Helper <i>Lois</i></td> <td colspan="4" rowspan="4"><i>Displace 19 1/2 Bbl</i></td> </tr> <tr> <td>No. 2</td> <td>Driver <i>Brett</i></td> </tr> <tr> <td>No. 3</td> <td>Driver <i>Clayton</i></td> </tr> <tr> <td>No. 4</td> <td>Driver <i>Clayton</i></td> </tr> <tr> <td colspan="2">Collar</td> <td colspan="4"> <i>18 on bottom. Est Circulation</i> <i>25056 Displace.</i> <i>Cement Circulated!</i> </td> </tr> <tr> <td colspan="2">Common</td> <td colspan="4"><i>250</i></td> </tr> <tr> <td colspan="2">Poz. Mix</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Gel.</td> <td colspan="4"><i>5 9</i></td> </tr> <tr> <td colspan="2">Calcium</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Hulls</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Salt</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Flowseal</td> <td colspan="4"><i>125#</i></td> </tr> <tr> <td colspan="2">Kol-Seal</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Mud CLR 48</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">CFL-117 or CD110 CAF 38</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Sand</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Handling</td> <td colspan="4"><i>259 264</i></td> </tr> <tr> <td colspan="2">Mileage</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Guide Shoe</td> <td colspan="4">FLOAT EQUIPMENT</td> </tr> <tr> <td colspan="2">Centralizer</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Baskets</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">AFU Inserts</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Float Shoe</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Latch Down</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Pumptrk Charge</td> <td colspan="4"><i>Surface</i></td> </tr> <tr> <td colspan="2">Mileage</td> <td colspan="4"><i>47</i></td> </tr> <tr> <td colspan="2">Tax</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Discount</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Total Charge</td> <td colspan="4"></td> </tr> </table>						EQUIPMENT		JOB SERVICES & REMARKS				No. 1	Cement Helper <i>Lois</i>	<i>Displace 19 1/2 Bbl</i>				No. 2	Driver <i>Brett</i>	No. 3	Driver <i>Clayton</i>	No. 4	Driver <i>Clayton</i>	Collar		<i>18 on bottom. Est Circulation</i> <i>25056 Displace.</i> <i>Cement Circulated!</i>				Common		<i>250</i>				Poz. Mix						Gel.		<i>5 9</i>				Calcium						Hulls						Salt						Flowseal		<i>125#</i>				Kol-Seal						Mud CLR 48						CFL-117 or CD110 CAF 38						Sand						Handling		<i>259 264</i>				Mileage						Guide Shoe		FLOAT EQUIPMENT				Centralizer						Baskets						AFU Inserts						Float Shoe						Latch Down						Pumptrk Charge		<i>Surface</i>				Mileage		<i>47</i>				Tax						Discount						Total Charge					
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