



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1159376
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
-----------------------------------	-----------------	---

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: _____



1159376

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Griffith Unit 2-1
Doc ID	1159376

All Electric Logs Run

Microresistivity log
Dual induction log
Dual compensated porosity log
Sonic cement bond log

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Griffith Unit 2-1
Doc ID	1159376

Tops

Name	Top	Datum
Top Anhydrite	1739	+408
Base Anhydrite	1770	+377
Topeka	3126	-979
Heebner	3331	-1184
Toronto	3352	-1205
LKC	3368	-1221
BKC	3566	-1419
Marmaton	3646	-1499
Arbuckle	3718	-1571

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Griffith Unit 2-1
Doc ID	1159376

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3718-3720'		
	3715	CIBP	3715
4	3701-3703'	300 Gal. 15%	3703
	3680	CIBP	3680'
4	3546-3550'	2000 gal NE	3550'
4	3528-3530'		
4	3518-3520'		
4	3497-3499'		
4	3368-3374'	2000 gal.	3374'

QUALITY OILWELL CEMENTING, INC.

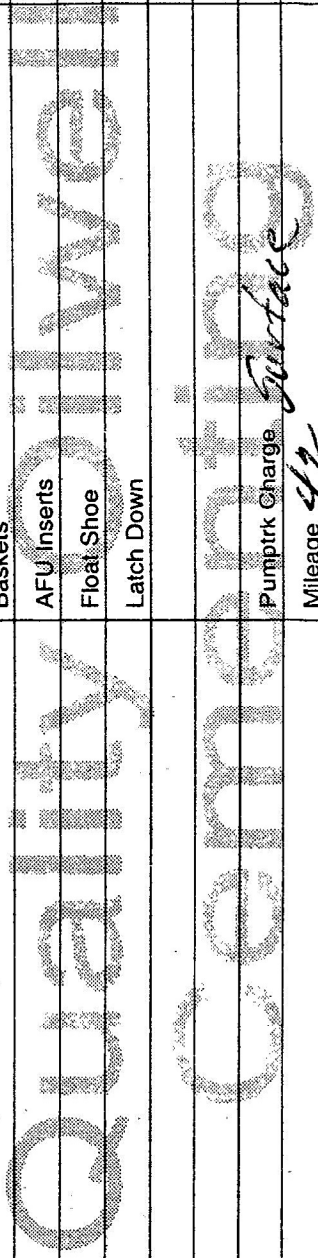
Federal Tax I.D.# 20-2886107

No. 7442

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

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

Date	8-10-13	Sec.	2	Twp.	8	Range	22	County	Graham	State	KS	On Location	Finish
Location												Bang 18 & 24 W to 329 1/4 N, ENZ	
Lease												Griffith Unit	
Contractor												Discovery 1	
Type Job												Surface	
Hole Size												12 1/4	
Csg.												8 5/8	
Tbg. Size													
Tool													
Cement Left in Csg.												20	
Meas Line												Displace 13661	
EQUIPMENT													
Pumptrk 5		No.		Cementer		Helper		Math					
Bulktrk 12		No.		Driver		Chad							
Bulktrk PM		No.		Driver		Travis							
JOB SERVICES & REMARKS													
Remarks: cement did circulate													
Rat Hole													
Mouse Hole													
Centralizers													
Baskets													
DN or Port Collar													
Sand													
Handling 158													
Mileage													
FLOAT EQUIPMENT													
Guide Shoe													
Centralizer													
Baskets													
AFU Inserts													
Float Shoe													
Latch Down													
Pumptrk Charge													
Surface													
Mileage													
42													
												Tax	
												Discount	
												Total Charge	



X Signature *Cliff McFarland*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 7289

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

Date	8-16-13	Sec.	2	Twp.	8	Range	22	County	Crawford	State	KS	On Location		Finish	11:30 PM		
Lease	Griffith Unit																
Well No.	2-1																
Contractor	Discover #1																
Type Job	Bottom Stage																
Hole Size	7 7/8																
Csg.	5 1/2																
Tbg. Size																	
Tool																	
Cement Left in Csg.	22.19'																
Shoe Joint	22.19'																
Displace	9 1/2																
EQUIPMENT																	
Pumptrk	15	No.	Cementer	Nick													
Bulktrk	1	No.	Helper														
Bulktrk	PU	No.	Driver	Lonnie M.													
Bulktrk	PU	No.	Driver	Brett													
Bulktrk	PU	No.	Driver	Travis													
JOB SERVICES & REMARKS																	
Remarks:																	
Rat Hole																	
Mouse Hole																	
Centralizers	2, 5, 6, 7, 8, 9, 10, 12, 49, 55 & 65																
Baskets	2, 49, 56 & 66																
DN or Port Collar	Top of #49 @ 1751'																
Pipe on bottom																	
Broke circulation																	
Pumped 500 gal mud flush																	
10 bbl behind w/ Fresh H ₂ O																	
Mixed 180 Q-Pro-C, Washed Line																	
Displaced 91 1/2 bbl of cement																	
Washed line																	
5 1/2 FLOAT EQUIPMENT																	
Centralizer Turbos - 30																	
Baskets - 4																	
AFU Inserts																	
Float Shoe - 1 w/ ball																	
Latch Down - 1																	
DV Tool																	
Loaded @ 1500 lbs and held																	
Pumptrk Charge																	
Mileage																	
Tax																	
Discount																	
Total Charge																	

X Signature *Bob McFarland*

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

September 23, 2013

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

Re: ACO1
API 15-065-23965-00-00
Griffith Unit 2-1
SW/4 Sec.02-08S-22W
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



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

Griffith #2-1

2-8s-22w Graham,KS

Start Date: 2013.08.13 @ 12:32:00

End Date: 2013.08.13 @ 19:30:00

Job Ticket #: 50455 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 16:42:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50455 **DST#: 1**
Test Start: 2013.08.13 @ 12:32:00

GENERAL INFORMATION:

Formation: **LKC " A "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:24:15
Time Test Ended: 19:30:00
Interval: 3360.00 ft (KB) To 3388.00 ft (KB) (TVD)
Total Depth: 3388.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

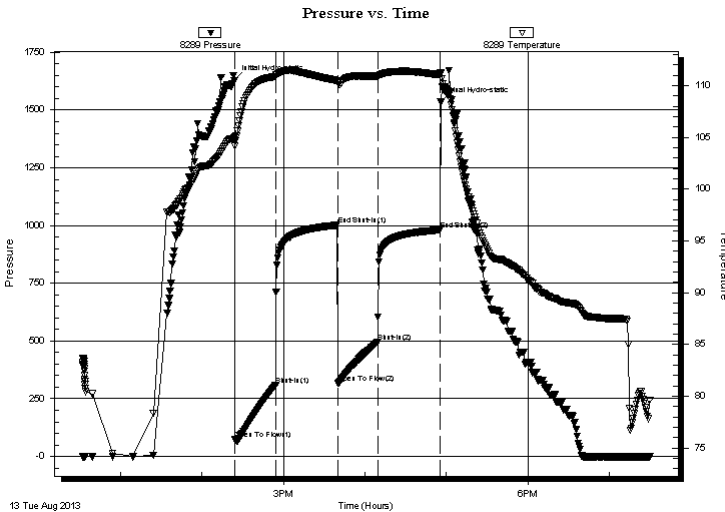
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 54
Reference Elevations: 2146.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 494.79 psig @ 3361.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.13 End Date: 2013.08.13 Last Calib.: 2013.08.13
Start Time: 12:32:02 End Time: 19:29:45 Time On Btm: 2013.08.13 @ 14:24:00
Time Off Btm: 2013.08.13 @ 16:55:45

TEST COMMENT: 30-IFP- BOB in 1 min. 10 sec.
45-ISIP- BOB in 9 min. 30 sec.
30-FFP- BOB in 2 min.
45-FSIP- Surface Blow Building to 4" in 16 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.18	105.05	Initial Hydro-static
1	73.38	104.15	Open To Flow (1)
30	307.49	110.86	Shut-In(1)
76	1001.72	110.49	End Shut-In(1)
77	315.97	110.23	Open To Flow (2)
106	494.79	110.90	Shut-In(2)
152	981.44	111.02	End Shut-In(2)
152	1536.45	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCO 20% m 80% o	0.88
1340.00	GCO 15% g 85% o	18.80
0.00	945' 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
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50455 **DST#: 1**
Test Start: 2013.08.13 @ 12:32:00

Tool Information

Drill Pipe:	Length: 3343.00 ft	Diameter: 3.80 inches	Volume: 46.89 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	58000.00 lb
			<u>Total Volume: 46.89 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3360.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3340.00	
Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Packer	5.00			3355.00	21.00 Bottom Of Top Packer
Packer	5.00			3360.00	
Stubb	1.00			3361.00	
Recorder	0.00	8789	Inside	3361.00	
Recorder	0.00	8289	Outside	3361.00	
Perforations	24.00			3385.00	
Bullnose	3.00			3388.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50455 **DST#: 1**
Test Start: 2013.08.13 @ 12:32:00

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: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.94 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 400.00 ppm		
Filter Cake: 1.50 inches		

Recovery Information

Recovery Table

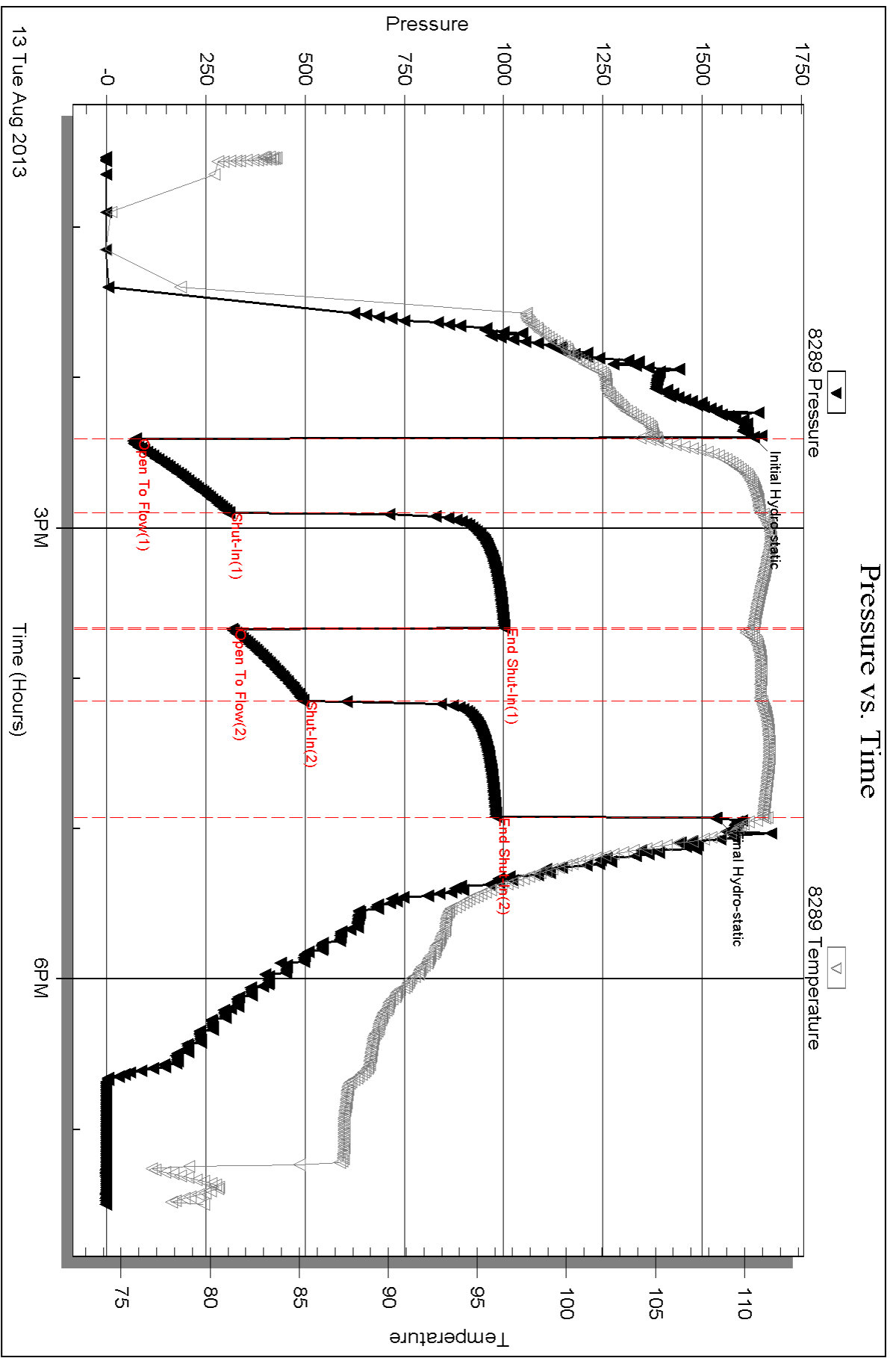
Length ft	Description	Volume bbl
63.00	MCO 20% _m 80% _o	0.884
1340.00	GCO 15% _g 85% _o	18.797
0.00	945' GIP	0.000

Total Length: 1403.00 ft Total Volume: 19.681 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



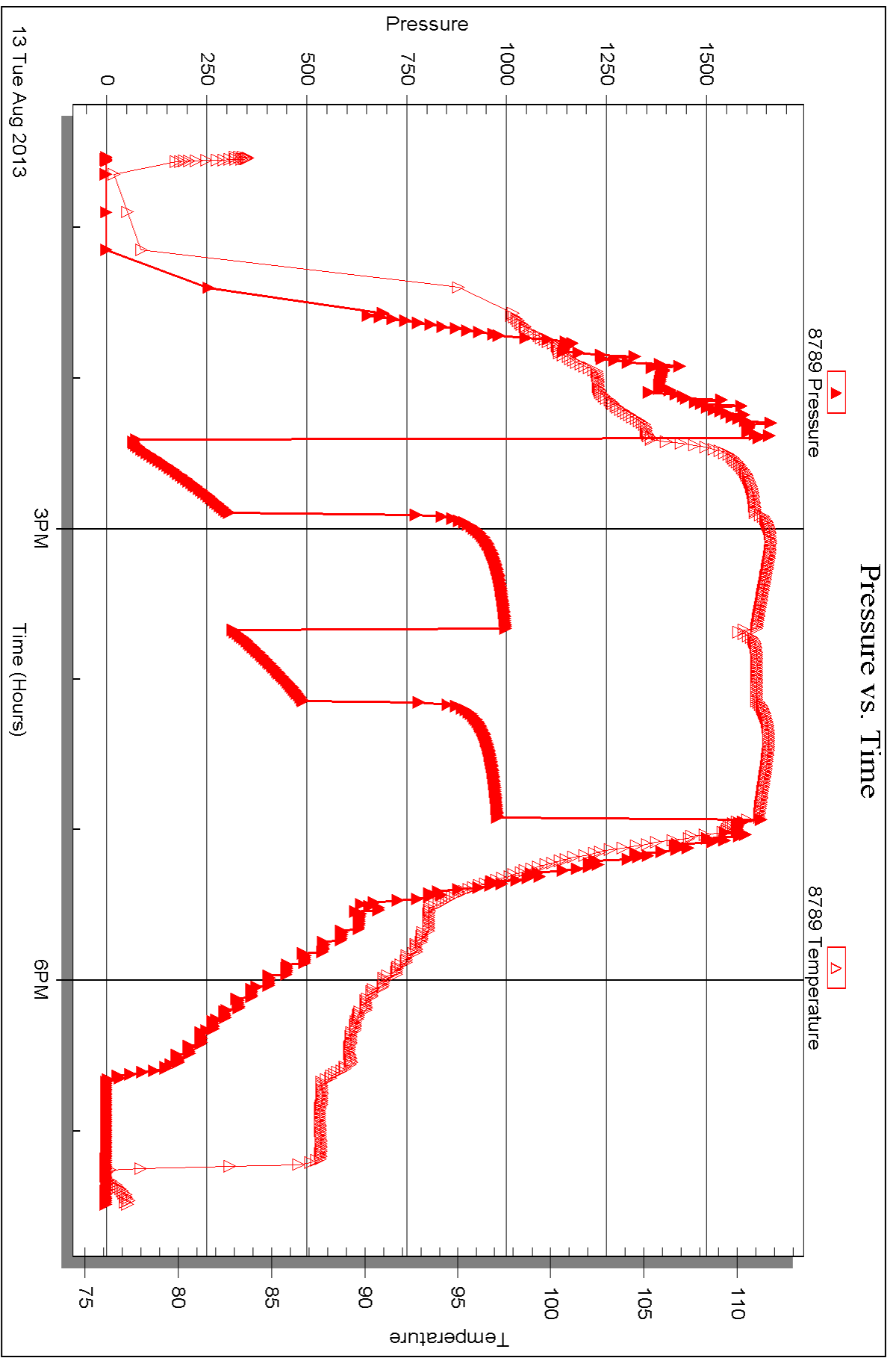
Serial #: 8789

Inside

H&C Oil Operating Inc

Griffith #2-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50455

Printed: 2013.08.16 @ 16:42:07



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

Griffith #2-1

2-8s-22w Graham,KS

Start Date: 2013.08.14 @ 02:10:00

End Date: 2013.08.14 @ 09:04:00

Job Ticket #: 50456 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 16:41:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50456 **DST#: 2**
Test Start: 2013.08.14 @ 02:10:00

GENERAL INFORMATION:

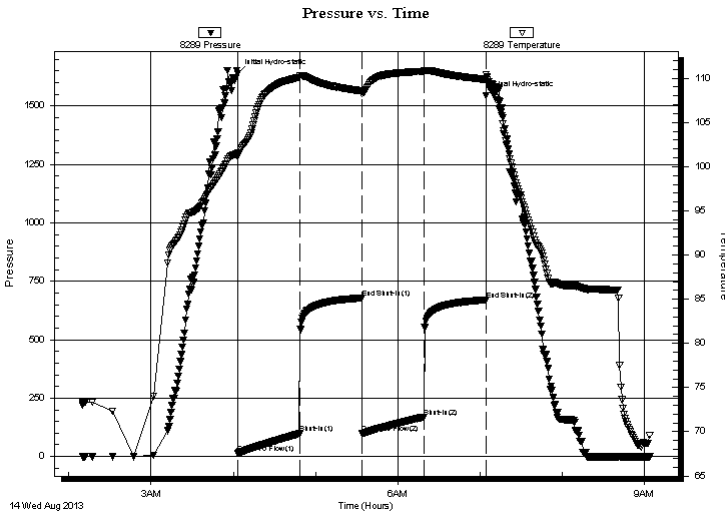
Formation: **LKC " C "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:03:30
Time Test Ended: 09:04:00
Interval: **3388.00 ft (KB) To 3412.00 ft (KB) (TVD)**
Total Depth: 3412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 54
Reference Elevations: 2146.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 169.27 psig @ 3389.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.14 End Date: 2013.08.14 Last Calib.: 2013.08.14
Start Time: 02:10:02 End Time: 09:04:00 Time On Btm: 2013.08.14 @ 04:03:15
Time Off Btm: 2013.08.14 @ 07:04:45

TEST COMMENT: 45-IFP- BOB in 18 min.
45-ISIP- No Blow
45-FFP- BOB in 25 min.
45-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.30	101.56	Initial Hydro-static
1	14.14	101.10	Open To Flow (1)
45	97.35	110.10	Shut-In(1)
91	678.83	108.56	End Shut-In(1)
91	97.82	108.27	Open To Flow (2)
136	169.27	110.76	Shut-In(2)
182	670.72	109.86	End Shut-In(2)
182	1545.74	110.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW 5% m 95% w	4.42
13.00	MCW 40% m 60% w	0.18
2.00	CO 100%	0.03

* 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
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50456 **DST#: 2**
Test Start: 2013.08.14 @ 02:10:00

Tool Information

Drill Pipe:	Length: 3375.00 ft	Diameter: 3.80 inches	Volume: 47.34 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	46000.00 lb
			<u>Total Volume: 47.34 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3388.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			3368.00	
Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Packer	5.00			3383.00	21.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Recorder	0.00	8789	Inside	3389.00	
Recorder	0.00	8289	Outside	3389.00	
Perforations	20.00			3409.00	
Bullnose	3.00			3412.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50456 **DST#: 2**
Test Start: 2013.08.14 @ 02:10:00

Mud and Cushion Information

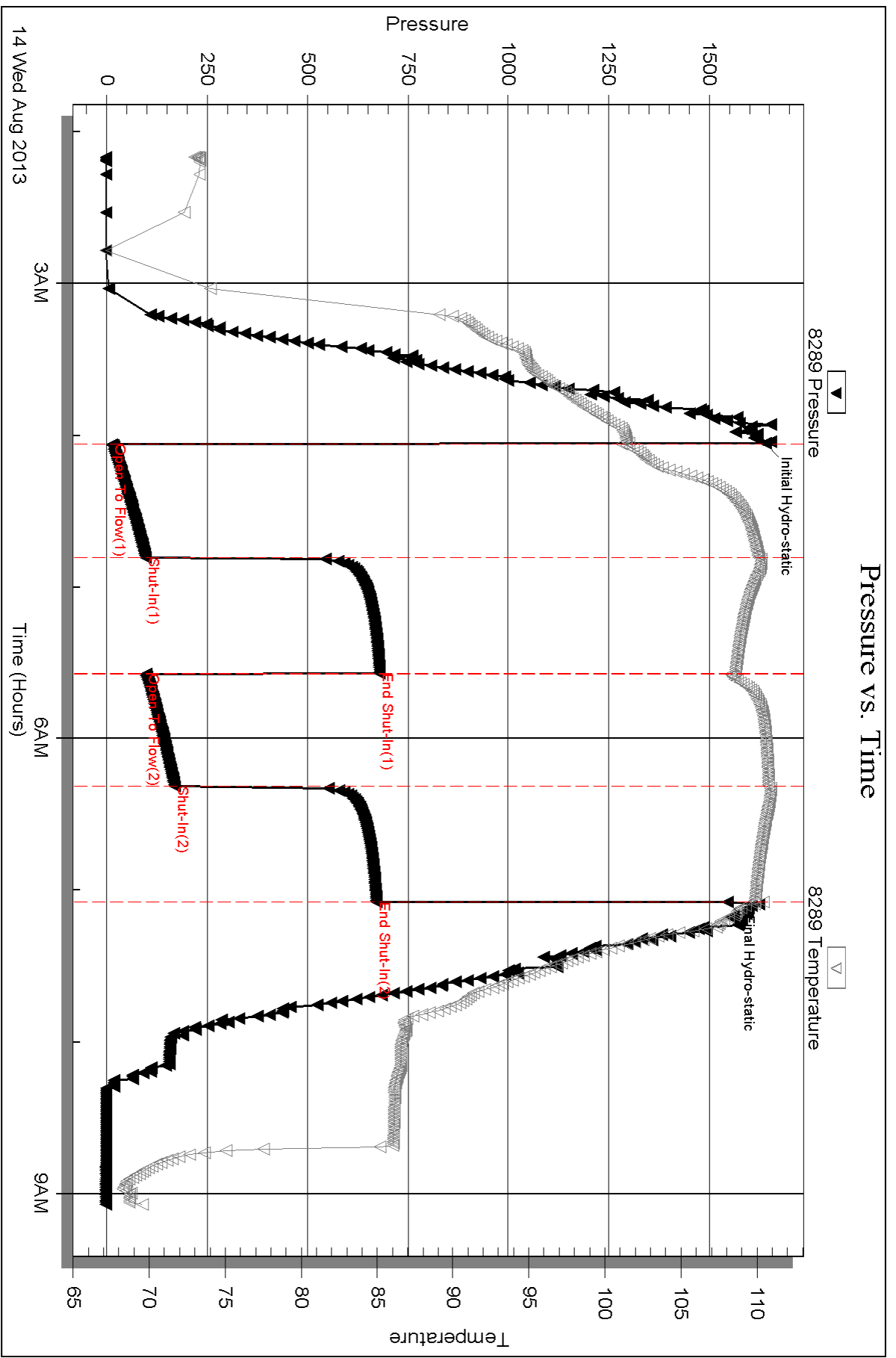
Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 92000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.93 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 400.00 ppm		
Filter Cake: 1.50 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MCW 5%m 95%w	4.419
13.00	MCW 40%m 60%w	0.182
2.00	CO 100%	0.028

Total Length: 330.00 ft Total Volume: 4.629 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .100 @ 62



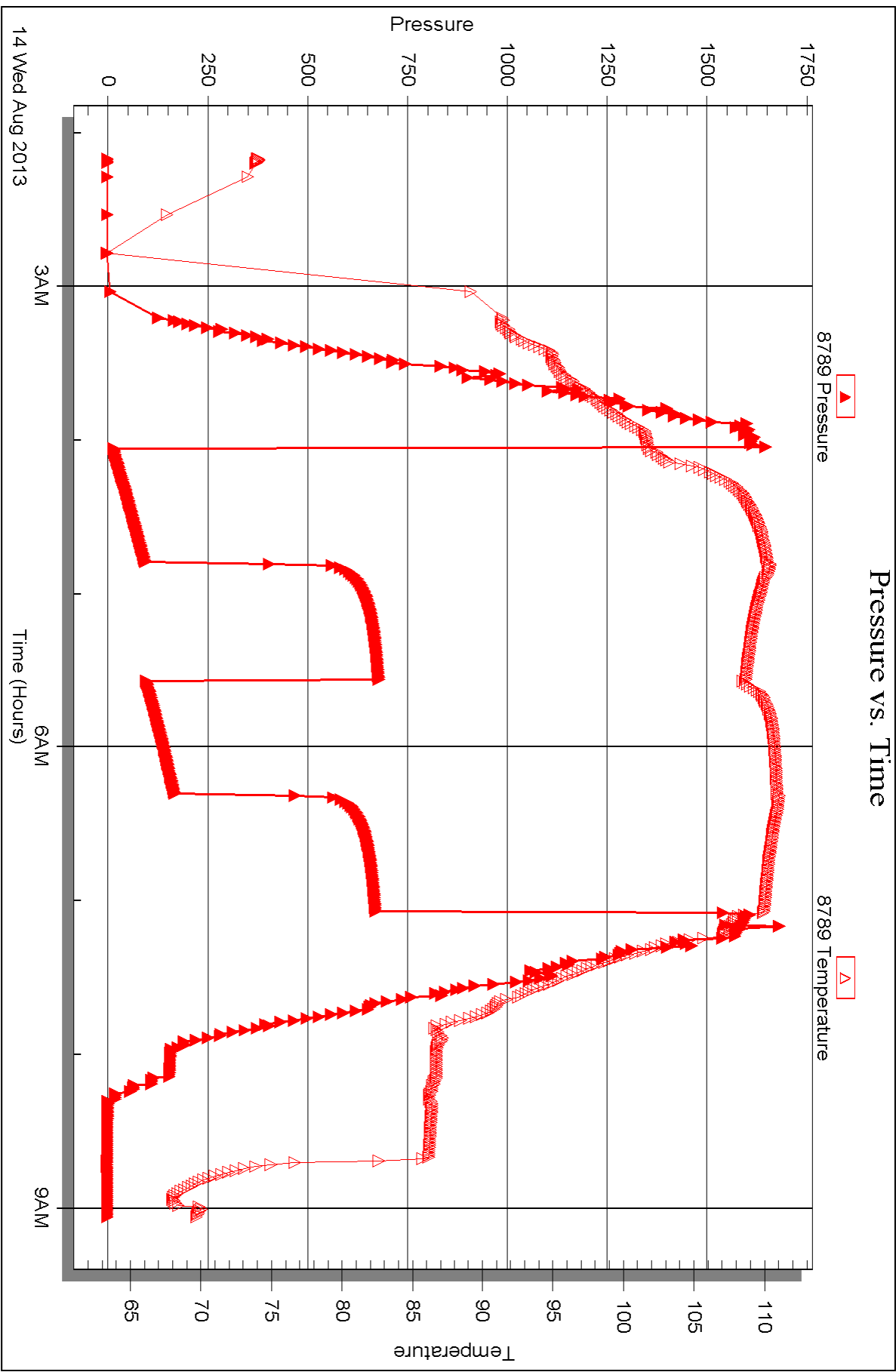
Serial #: 8789

Inside

H&C Oil Operating Inc

Griffith #2-1

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

Griffith #2-1

2-8s-22w Graham,KS

Start Date: 2013.08.14 @ 15:00:00

End Date: 2013.08.14 @ 22:25:00

Job Ticket #: 50457 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 16:40:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50457 **DST#: 3**
Test Start: 2013.08.14 @ 15:00:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:17:00
Time Test Ended: 22:25:00
Interval: **3425.00 ft (KB) To 3450.00 ft (KB) (TVD)**
Total Depth: 3450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2146.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 54

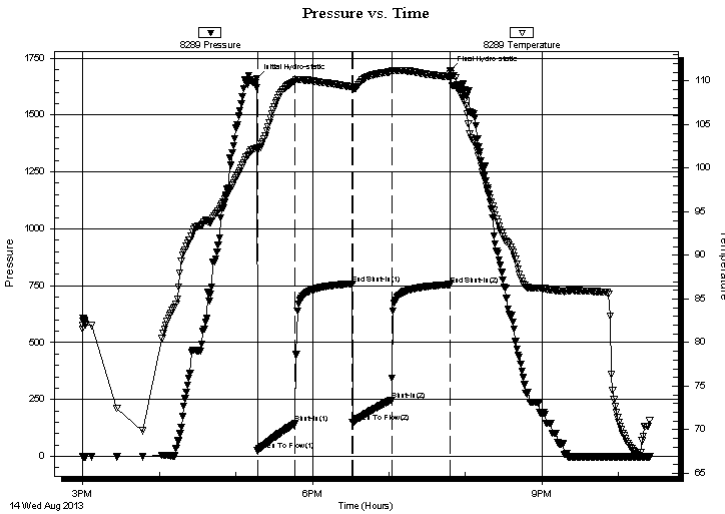
Serial #: 8289

Outside

Press @ Run Depth: 248.01 psig @ 3426.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.14 End Date: 2013.08.14 Last Calib.: 2013.08.14
Start Time: 15:00:02 End Time: 22:25:00 Time On Btm: 2013.08.14 @ 17:16:30
Time Off Btm: 2013.08.14 @ 19:48:15

TEST COMMENT: 30-IFP- BOB in 6 min.
45-ISIP- Surface Blow Building to 3 1/4"
30-FFP- BOB in 8 1/2 min.
45-FSIP- Surface Blow to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.64	102.35	Initial Hydro-static
1	25.07	102.00	Open To Flow (1)
30	143.77	109.99	Shut-In(1)
75	758.94	109.36	End Shut-In(1)
75	149.43	109.05	Open To Flow (2)
106	248.01	111.07	Shut-In(2)
152	755.14	110.49	End Shut-In(2)
152	1695.91	110.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW 10%o 90%w Show of Oil	4.42
95.00	OWCM 15%o 15%w 70%m	1.33
110.00	CO 100%	1.54
0.00	235' 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

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 A T T N : Marc Dow ning

2-8s-22w Graham,KS
Griffith #2-1
 Job Ticket: 50457 **DST#: 3**
 Test Start: 2013.08.14 @ 15:00:00

Tool Information

Drill Pipe:	Length: 3438.00 ft	Diameter: 3.80 inches	Volume: 48.23 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	48000.00 lb
			<u>Total Volume: 48.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3425.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			3405.00	
Shut In Tool	5.00			3410.00	
Hydraulic tool	5.00			3415.00	
Packer	5.00			3420.00	21.00 Bottom Of Top Packer
Packer	5.00			3425.00	
Stubb	1.00			3426.00	
Recorder	0.00	8789	Inside	3426.00	
Recorder	0.00	8289	Outside	3426.00	
Perforations	21.00			3447.00	
Bullnose	3.00			3450.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50457 **DST#: 3**
Test Start: 2013.08.14 @ 15:00:00

Mud and Cushion Information

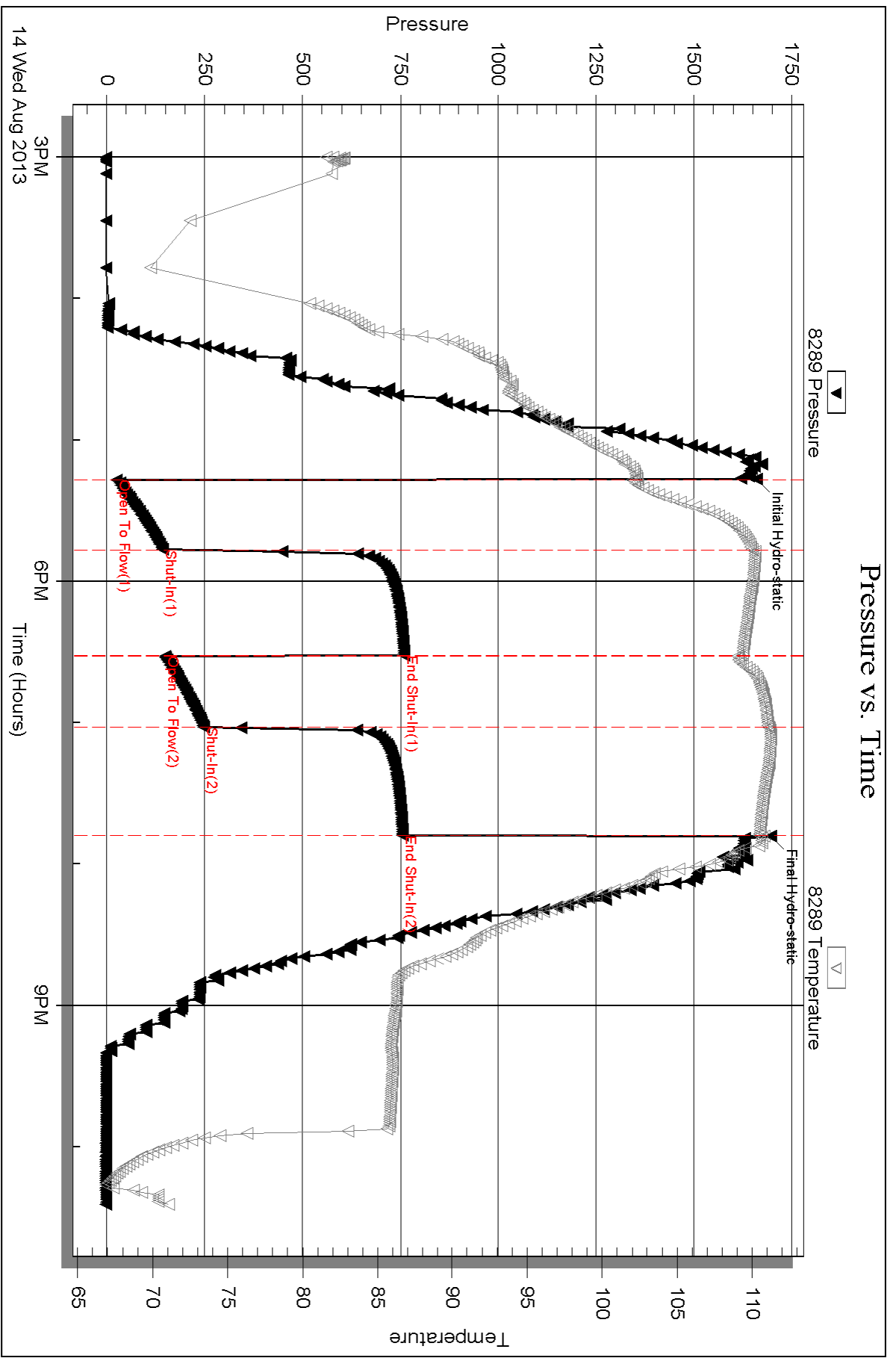
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 76000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 500.00 ppm		
Filter Cake: 1.50 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MCW 10%m 90%w Show of Oil	4.419
95.00	OWCM 15%o 15%w 70%m	1.333
110.00	CO 100%	1.543
0.00	235' GIP	0.000

Total Length: 520.00 ft Total Volume: 7.295 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .113 @ 66



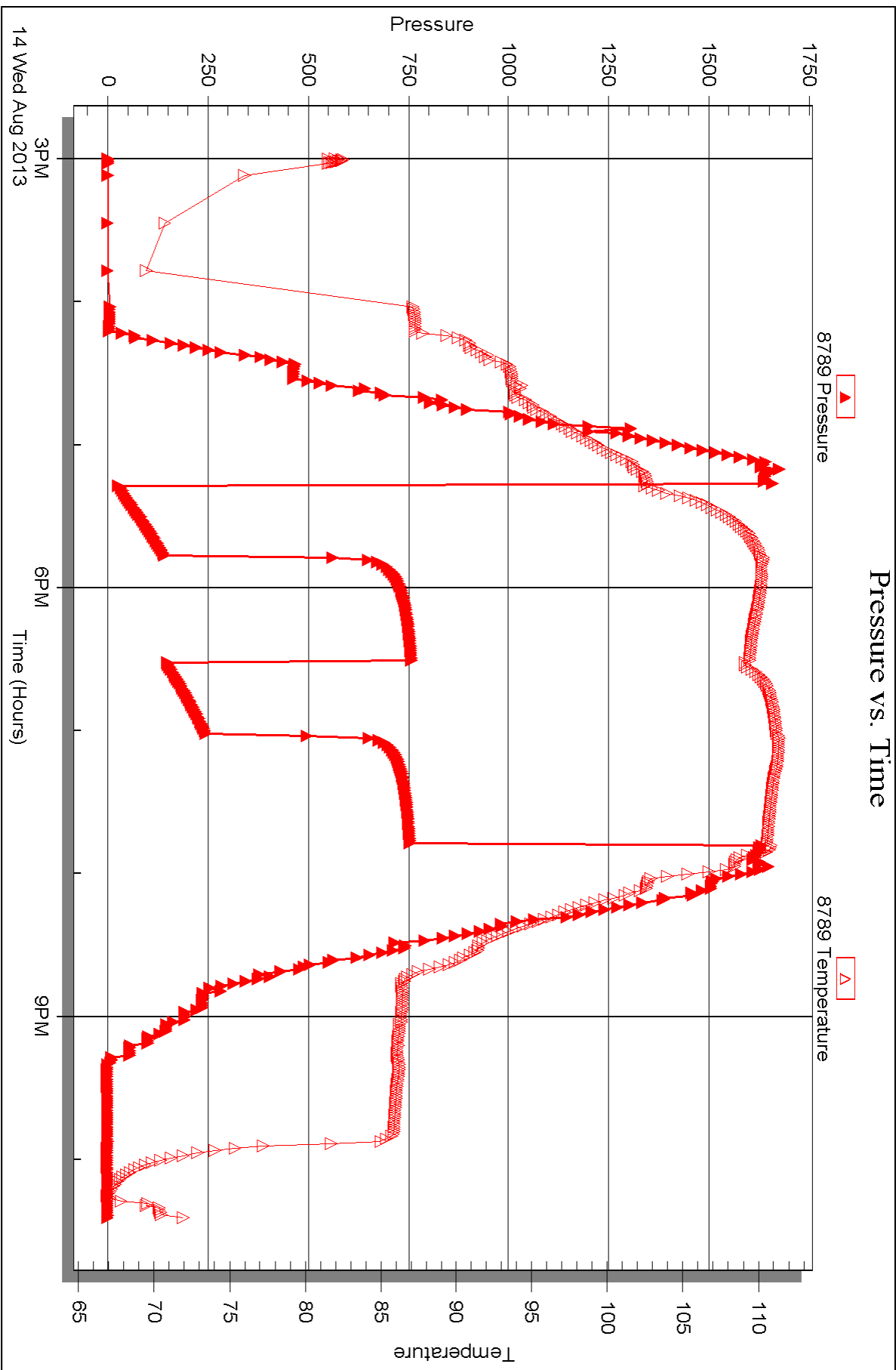
Serial #: 8789

Inside

H&C Oil Operating Inc

Griffith #2-1

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

Griffith #2-1

2-8s-22w Graham,KS

Start Date: 2013.08.15 @ 10:07:00

End Date: 2013.08.15 @ 17:05:00

Job Ticket #: 50458 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 16:36:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
 Job Ticket: 50458 **DST#: 4**
 Test Start: 2013.08.15 @ 10:07:00

GENERAL INFORMATION:

Formation: **LKC " H - K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:32:15
 Time Test Ended: 17:05:00
Interval: 3475.00 ft (KB) To 3552.00 ft (KB) (TVD)
 Total Depth: 3552.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2146.00 ft (KB)
 2139.00 ft (CF)
 KB to GR/CF: 7.00 ft

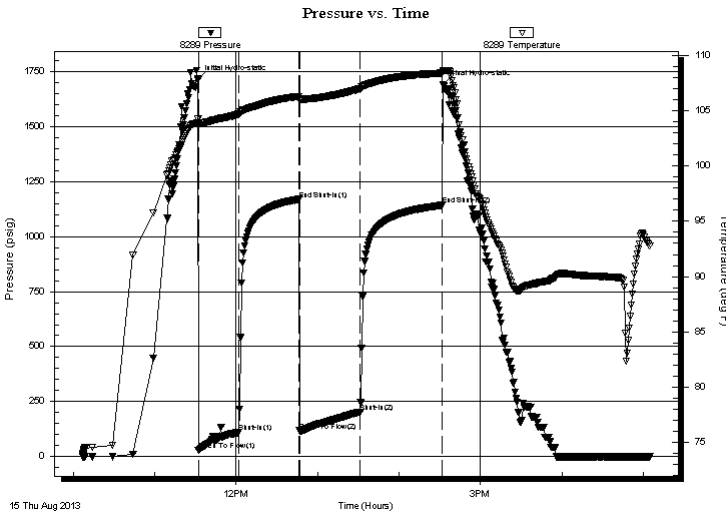
Serial #: 8289

Outside

Press @ Run Depth: 201.86 psig @ 3484.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.15 End Date: 2013.08.15 Last Calib.: 2013.08.15
 Start Time: 10:07:02 End Time: 17:05:00 Time On Btm: 2013.08.15 @ 11:32:00
 Time Off Btm: 2013.08.15 @ 14:32:30

TEST COMMENT: 30-IFP- BOB in 9 min.
 45-ISIP- Surface Blow Building to 1 1/4" in 5 min.
 45-FFP-BOB in 7 min.
 60-FSIP- Surface Blow Building to 5 1/2" in 25 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.49	104.30	Initial Hydro-static
1	27.77	103.65	Open To Flow (1)
30	109.63	104.67	Shut-In(1)
75	1170.10	106.28	End Shut-In(1)
75	116.36	105.89	Open To Flow (2)
120	201.86	106.98	Shut-In(2)
180	1143.32	108.39	End Shut-In(2)
181	1691.00	108.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM 10%g 10%o 80%m	0.88
126.00	GMCO 10%g 40%m 50%o	1.77
126.00	GMCO 10%g 30%m 60%o	1.77
132.00	CO 100%	1.85
0.00	505' 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

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50458 **DST#: 4**
Test Start: 2013.08.15 @ 10:07:00

Tool Information

Drill Pipe:	Length: 3471.00 ft	Diameter: 3.80 inches	Volume: 48.69 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 48.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3475.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	98.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3455.00	
Shut In Tool	5.00			3460.00	
Hydraulic tool	5.00			3465.00	
Packer	5.00			3470.00	21.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Perforations	8.00			3484.00	
Recorder	0.00	8789	Inside	3484.00	
Recorder	0.00	8289	Outside	3484.00	
Change Over Sub	1.00			3485.00	
Blank Spacing	63.00			3548.00	
Change Over Sub	1.00			3549.00	
Bullnose	3.00			3552.00	77.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

2-8s-22w Graham,KS
Griffith #2-1
Job Ticket: 50458 **DST#: 4**
Test Start: 2013.08.15 @ 10:07:00

Mud and Cushion Information

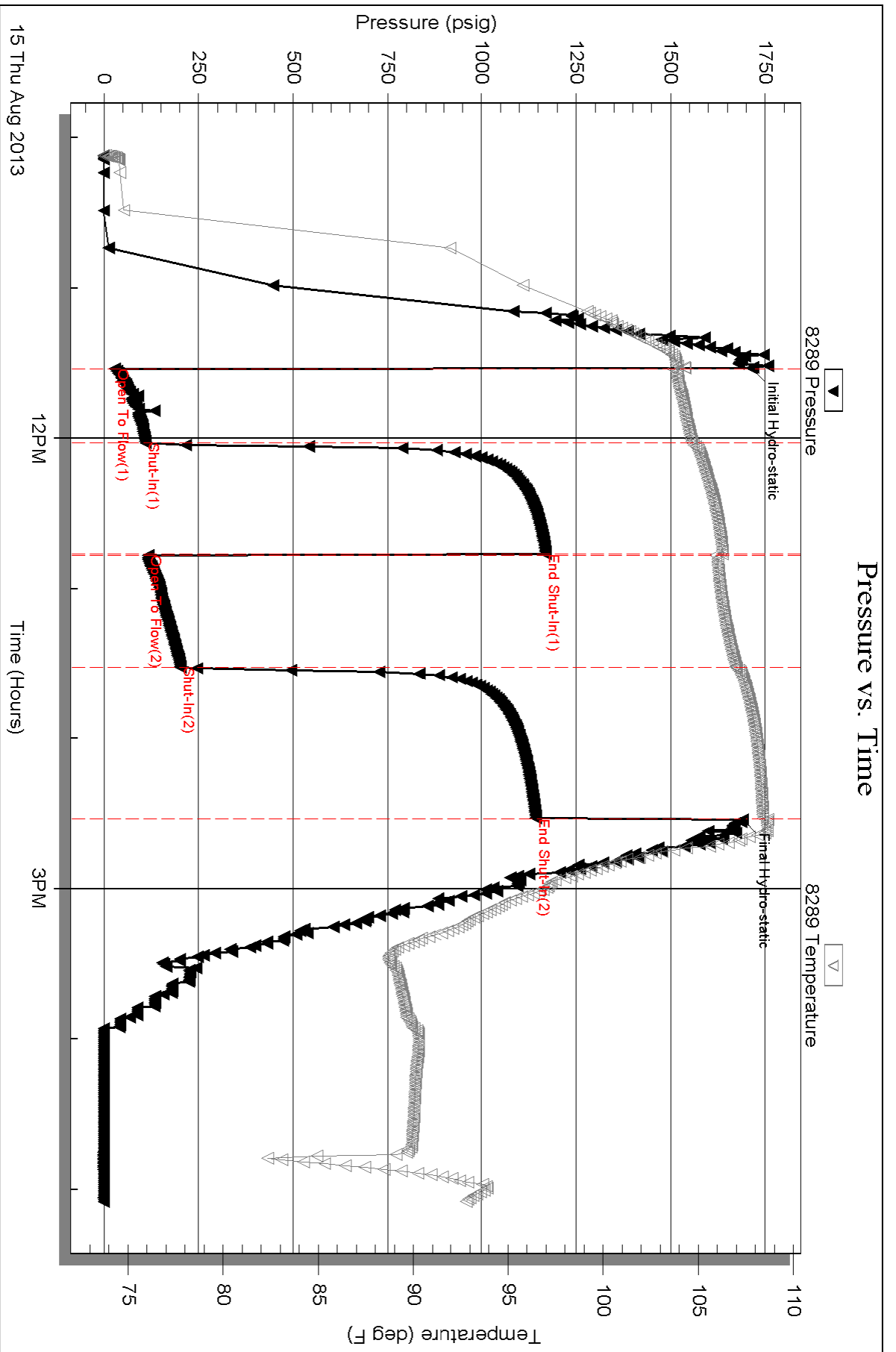
Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: 1.50 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GOCM 10%g 10%o 80%m	0.884
126.00	GMCO 10%g 40%m 50%o	1.767
126.00	GMCO 10%g 30%m 60%o	1.767
132.00	CO 100%	1.852
0.00	505' GIP	0.000

Total Length: 447.00 ft Total Volume: 6.270 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



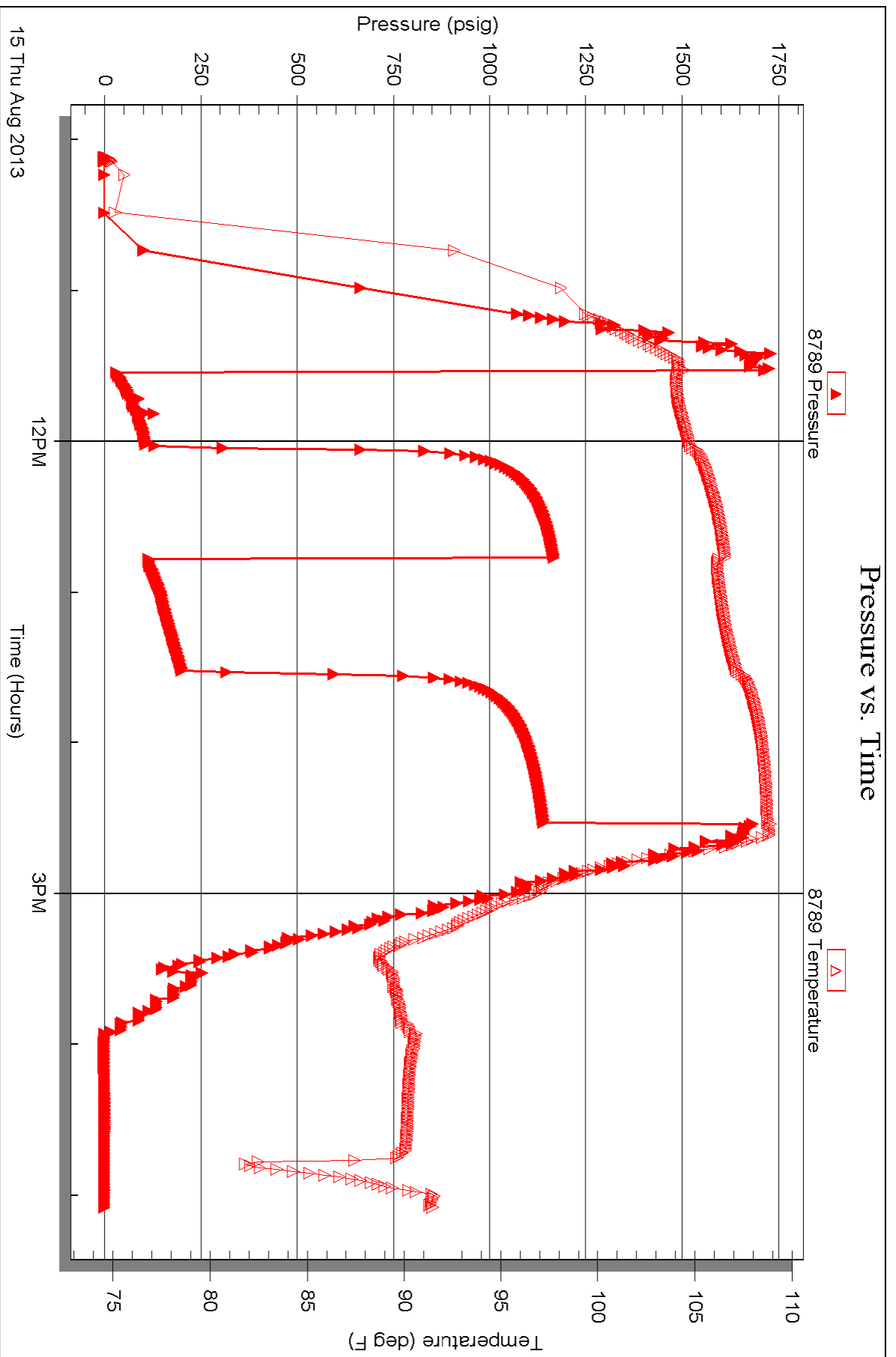
Serial #: 8789

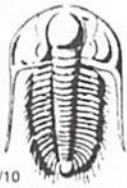
Inside

H&C Oil Operating Inc

Griffith #2-1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50455

Well Name & No. Driffith Unit 2-1 Test No. 1 Date 8-13-13
 Company H&C Oil Operating Inc. Elevation 2146 KB 2139 GL
 Address P.O. Box 86 Plainville KS. 67663-0086
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 2 Twp. 85N Rge. 22W Co. Graham State KS

Interval Tested 3360-3388 Zone Tested LKC "A"
 Anchor Length 28 Drill Pipe Run 3343 Mud Wt. 9.0
 Top Packer Depth 3355 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3360 Wt. Pipe Run 0 WL 8
 Total Depth 3388 Chlorides 400 ppm System LCM 1.5

Blow Description IFF-BOB in 1min 10sec.
ISIP-BOB in 2min 30sec.
FFP-BOB in 2min
FSIP-Surface Building to 4in. in 16min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>mco</u>	<u>80</u>		<u>20</u>	
<u>1370</u>	<u>SARRY CO</u>	<u>15</u>	<u>85</u>		
	<u>0945 SIP</u>				

Rec Total 1403. BHT 111 Gravity 36 API RW _____ @ _____ ° F Chlorides _____ ppm

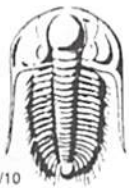
(A) Initial Hydrostatic <u>1630</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:30</u>
(B) First Initial Flow <u>73</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:32</u>
(C) First Final Flow <u>307</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>14:25</u>
(D) Initial Shut-In <u>1001</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>16:55</u>
(E) Second Initial Flow <u>315</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:30</u>
(F) Second Final Flow <u>494</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u> 176.70	Comments _____
(G) Final Shut-In <u>981</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1536</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Sub Total 1376.70
 Total 7856395864
 MP/DST Disc _____

Approved By _____ Our Representative [Signature]

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. 50456

Well Name & No. Griffith Unit #2-1 Test No. 2 Date 8-14-13
 Company H & C Oil Operating Inc. Elevation 2146 KB 2139 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 2 Twp. 8S Rge. 22W Co. Araham State KS

Interval Tested 3388-3412 Zone Tested LRC "C"
 Anchor Length 24 Drill Pipe Run 3375 Mud Wt. 9.0
 Top Packer Depth 3383 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3388 Wt. Pipe Run 0 WL 8.0
 Total Depth 3412 Chlorides 400 ppm System LCM 1.5

Blow Description IFP- BOB in 18min
ISIP- No Blow
FEP- BOB in 25min
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
<u>13</u>	<u>mcw</u>		<u>60</u>	<u>40</u>	
<u>2</u>	<u>CO</u>	<u>100</u>			

Rec Total 330 BHT 110 Gravity 29 API RW .100 @ 62 ° F Chlorides 92000 ppm

(A) Initial Hydrostatic 1639 Test 1150 T-On Location 01:52
 (B) First Initial Flow 14 Jars _____ T-Started 02:10
 (C) First Final Flow 97 Safety Joint _____ T-Open 04:04
 (D) Initial Shut-In 678 Circ Sub _____ T-Pulled 07:04
 (E) Second Initial Flow 97 Hourly Standby _____ T-Out 09:04
 (F) Second Final Flow 169 Mileage 176.70 Comments _____
 (G) Final Shut-In 670 Sampler _____
 (H) Final Hydrostatic 1545 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1326.70
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1326.70

Approved By _____ Our Representative [Signature]
 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. 50457

Well Name & No. Driffith Unit #2-1 Test No. 2 Date 8-14-13
 Company H+C Oil Operating Inc. Elevation 2146 KB 2139 GL
 Address P.O. Box 86 Plainville KS. 67663-0086
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 2 Twp. 8 S 22 W Co. Graham State KS

Interval Tested 3425-3450 Zone Tested LKC "E&F"
 Anchor Length 25 Drill Pipe Run 3438 Mud Wt. 9
 Top Packer Depth 3420 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3425 Wt. Pipe Run 0 WL 7.6
 Total Depth 3450 Chlorides 500 ppm System LCM 1.5

Blow Description IFP - BOB in 6min.
ISIP - Surface Blow Building to 3 1/4 in. in 32min.
FFP - BOB in 8 1/2min
FSIP - Surface Blow Building to 4 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Feet of MCW show of Oil</u>			<u>90</u>	<u>10</u>
<u>95</u>	<u>Feet of OWCM</u>	<u>15</u>	<u>15</u>	<u>70</u>	
<u>110</u>	<u>Feet of CO</u>	<u>100</u>			
	<u>Feet of 235 AIP</u>				

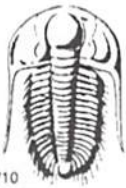
Rec Total 520 BHT 110 Gravity 33 API RW .112 @ 66 °F Chlorides 76000 ppm

(A) Initial Hydrostatic 1659 Test 1150 T-On Location 14:57
 (B) First Initial Flow 25 Jars T-Started 15:00
 (C) First Final Flow 143 Safety Joint T-Open 17:17
 (D) Initial Shut-In 758 Circ Sub T-Pulled 19:47
 (E) Second Initial Flow 149 Hourly Standby T-Out 22:25
 (F) Second Final Flow 248 Mileage 176.70 Comments _____
 (G) Final Shut-In 755 Sampler _____
 (H) Final Hydrostatic 1695 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1326.70
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1326.70

Approved By _____ Our Representative [Signature]

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. 50458

Well Name & No. Driffith Unit #2-1 Test No. 4 Date 8-15-13
 Company H+C Oil Operating Inc. Elevation 2146 KB 2139 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. MARC DOWNING Rig Discovery #1
 Location: Sec. 2 Twp. 8⁵⁰ Rge. 22W Co. Graham State KS

Interval Tested 3475-3552 Zone Tested LKC "H-K"
 Anchor Length 77 Drill Pipe Run 3471 Mud Wt. 9.3
 Top Packer Depth 3470 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3475 Wt. Pipe Run 0 WL 7.6
 Total Depth 3552 Chlorides 800 ppm System LCM 1.5

Blow Description IFP - BOB in 9min.
ISIP - Surface Blow Building to 1 1/4 in. in 5min.
FFP - BOB in 7min
FSIP - Surface Blow Building to 5 1/2 in in 25min

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>20cm</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>126</u>	<u>2mco</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>126</u>	<u>2mco</u>	<u>10</u>	<u>60</u>	<u>30</u>	
<u>132</u>	<u>CO</u>		<u>100</u>		
<u>505</u>	<u>SIP</u>				

Rec Total 447 BHT 108 Gravity 30 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1714 Test 1150 T-On Location 09:40
 (B) First Initial Flow 27 Jars _____ T-Started 10:07
 (C) First Final Flow 109 Safety Joint _____ T-Open 11:32
 (D) Initial Shut-In 1170 Circ Sub _____ T-Pulled 14:32
 (E) Second Initial Flow 116 Hourly Standby _____ T-Out 17:05

(F) Second Final Flow 201 Mileage 353.40 Comments _____
 (G) Final Shut-In 1143 Sampler _____ loaded 8/16 14:00
 (H) Final Hydrostatic 1691 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 1503.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1503.40

Approved By _____ Our Representative [Signature]

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.