



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1122396
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: _____



1122396

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

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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	Herl 27-2
Doc ID	1122396

Tops

Name	Top	Datum
Top Anhydrite	1901	+491
Base Anhydrite	1942	+450
Heebner	3639	-1247
Lansing	3676	-1284
Stark	3899	-1507
BKC	3948	-1556
Pawnee	4090	-1698
Fort Scott	4154	-1762
Cherokee	4178	-1786
Miss/Warsaw	4244	-1852

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

March 06, 2013

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

Re: ACO1
API 15-063-22076-00-00
Herl 27-2
NE/4 Sec.27-13S-26W
Gove 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

GEOLOGIC REPORT LOG

COMPANY	Htc Oil Operations, Inc.
WELL HEAD #	27-2
FIELD	Wildecat
LOCATION	440 Fm + 470 FEL
SFC.	TWP. 13S RGE. 24W
COUNTY	Gove
STATE	Kansas
OPERATOR	Htc Oil Operations, Inc.
CONTRACTOR	HZ Drilling & Co. #2
COMM.	1-30-13
DATE	2-6-13
CASING RECORD	None
SURF.	48' @ 270
TOTAL DEPTH	4295'
FORMATION TOPS AND STRUCTURAL POSITION	

FORMATION	SAMPLE	ELECTRIC LOG	SURF. POSITION	STRUCTURAL POSITION
Top Anhydrite Base Anhydrite	1907 1948	1901 1992	491 488	FL FL
Hebeover	3424	3439	-1247	-1
Lansing	3413	3476	-1241	FL
Stark	3890	3899	-1551	FL
Palmer	3918	3918	-1554	FL
Fort Scott	4154	4154	-1698	FL
Cheerokee Sh	4182	4178	-1780	FL
Miss/Lansaw	4243	4244	-1852	FL

REFERENCE WELL FOR STRUCTURE Cities Service Co. Sec. 21-18S-24W
 Turner A #1 HAS MATERIAL OF NE-SE-NW

DRILL STEM TESTS

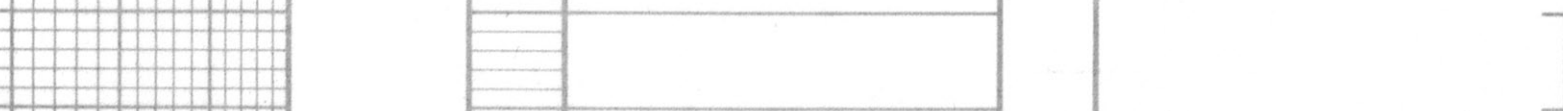
No.	Interval	IP/TIME	ISP/TIME	FFP/TIME	HR/FT	RECOVERY
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REMARKS AND RECOMMENDATIONS: Due to structural position, DST recovery & log evaluation, it was decided to plug & abandon the well.

LEGEND



DRILLING TIME IN MINUTES PER FOOT



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
3500	SS			
3600	SS			
3636(1244)	Sh: Black Carb	LS: tan, med xln, dns.		
	Sh: gry ul brn			
	LS: wht, fm vfm xln, No visx, NS. Rx tang siltly foss			
3673(1231)	Lansing	LS: wht, aol. porp. Trng gd int aol & ul scat lg foss. All NS.		
	Sh: gry-dk gry			
3700	SS	LS: wht, vfm xln, porp & dns, All NS.		
	Sh: gry			
	LS: wht, aol. gd int aol & ul dead blk asphaltic str. NSFA, NS Od.			
	LS: wht, aol. scat gd aol, rare asphaltic str, NSFA, NS Od, Mostly barren.			
	LS: wht, tang fm. med xln, porp & dns			
	Sh: gry			
	LS: wht, fm. med xln, porp & dns. scat lg foss, NS			
	Sh: gry			
	LS: wht, fm. med xln, siltly, some fr. int xln, ul org shp cnts, NS			
	LS: wht, fr. aol. silt, ul scat gd - fr. aol. & Tat barren, No Od.			
	LS: wht, fm xln, mostly porp & dns. Scat subxln-chlky rx ul org cnts. All NS.			
3800	SS			
	Sh: Black Carb			
	Sh: gry			
	LS: wht, fm xln, some. Scat pr. fr. int xln, mostly tite & dns, All NS			
	Sh: gry			
	Sh: dk gry - gry			
	LS: wht - tan, fm some xln, fr. int xln, mostly tite ul porp. Trng chlky - wht. Friable, NS, No Od.			
	Sh: gry			
	LS: wht, med xln, foss. fr. vng & int xln, Friable, fr. str. ul gd scat, gd SFA when broken, 14 Od.			
3900	SS			
	Sh: Black Carb			
	LS: wht, med xln, Much AIA, foss, siltly delam, siltly sub xln, fr. int xln, fr. str. & scat, gd SFA when broken, 14 Od.			
	Sh: gry			
	LS: wht, med xln, foss. pr. int xln, & tite, subxln in prt. pr. brn sh ul SFA when broken, v. int Od. Trng tan-brn, vfm xln & v. dns. Scat dead blk str, NSFA, No Od.			
	Sh: gry			
	LS: wht, fm xln, porp, dns. Scat aol			
	Sh: gry - lt gry			
	Sh: gry - lt gry			
	LS: wht, med xln, aol. porp & dns, scat subxln rx, All NS			
4000	SS			
	Sh: gry - lt gry, gummy in prt.			
	LS: wht - tan, tot aol. tang subxln - chlky, NS.			
	LS: AIA ul front org shp cnts.			
	Sh: gry			
	LS: wht - tan, fm. med xln. Mostly porp, sub xln in prt.			
	LS: AIA, tang dns & tite.			
4100	SS			
	Sh: Black Carb			
	LS: tan, fm xln. Scat - fr amt wht subxln - chlky rx. Mostly dns ul Na visx, NS.			
	LS: tan. brn. some gry.			
	fm. vfm xln, No visx, dns.			
	LS: Mostly AIA ul fr amt dk gry - blk Sh, tang about Sh			
	Sh: Black Carb			
	LS: tan, med xln. smt foss ul pr. fr. app, tite, 3-4 rx ul fr. scat & SFA, fr. - 14 Od.			
	LS: wht, fm. med xln. Subxln, porp. Scat sub-med foss, All NS.			
4200	SS			
	Sh: Black Carb			
	LS: tan - wht, med xln, porp, NS. Scat subxln rx			
	LS: Mostly AIA, porp			
	Sh: dk gry - blk			
	LS: wht - tan, fm. med xln, sub xln in prt, NS			
	Sh: gry ul lt gry			
	Dol: wht, med succ xln, foss. gd vng & int xln, Totally barren, NS Od.			
	Dol: Mostly AIA, wht, succ xln, fr. amt foss. gd vng, tang porp & dns. All NS.			
	Dol: wht, med succ xln, scat foss. gd vng, scat wht cnts, All NS, chlky in prt.			
	Dol: AIA ul fr amt wht cnts, scat barren SS.			
4300	SS			

Vis: 6.8 Lt: 9.2
 DST #1
 3885 - 3915
 30-30 - 30-30
 I.F. - 1/4" blow
 F.F. - Dead
 I.F.F. 17-32
 FFP: 35-46
 SZP: 1115-952
 HP: 1846-1821
 Rec: 35' HOCM 45%
 30' HOCM 10%
 BHT: 119"

4290(1898) LTD: 4289(1897)



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsay

Herl #27-2

27-13s-26w Gove,KS

Start Date: 2013.02.04 @ 12:15:50

End Date: 2013.02.04 @ 19:02:44

Job Ticket #: 51645 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.07 @ 10:09:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

27-13s-26w Gove,KS

Herl #27-2

Job Ticket: 51645

DST#: 1

Test Start: 2013.02.04 @ 12:15:50

GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:30

Time Test Ended: 19:02:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3885.00 ft (KB) To 3915.00 ft (KB) (TVD)

Total Depth: 3915.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2392.00 ft (KB)

2381.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 46.59 psig @ 3886.00 ft (KB)

Start Date: 2013.02.04

End Date: 2013.02.04

Start Time: 12:15:50

End Time: 19:02:44

Capacity: 8000.00 psig

Last Calib.: 2013.02.04

Time On Btm: 2013.02.04 @ 14:54:15

Time Off Btm: 2013.02.04 @ 17:00:59

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" bl

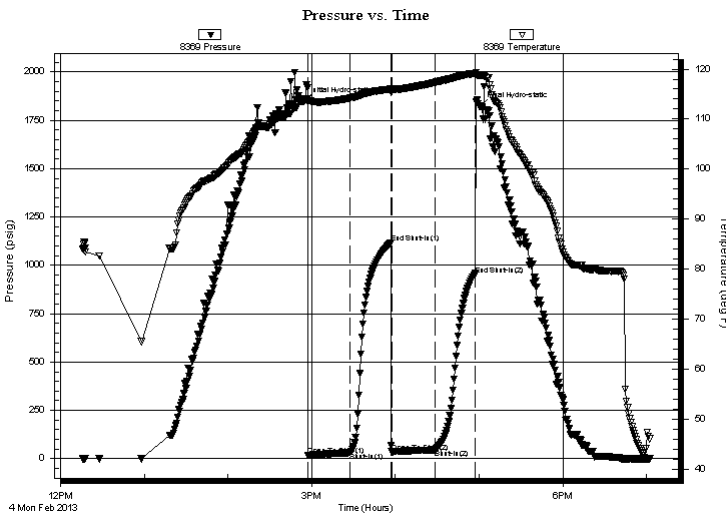
30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.54	113.91	Initial Hydro-static
4	17.66	113.54	Open To Flow (1)
34	32.31	114.21	Shut-In(1)
63	1115.67	116.02	End Shut-In(1)
63	35.50	115.76	Open To Flow (2)
94	46.59	117.33	Shut-In(2)
123	952.43	119.12	End Shut-In(2)
127	1821.14	118.66	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 10%O90%M	0.15
35.00	VHOCM 45%O55%M	0.17

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: Charles Ramsay

27-13s-26w Gove,KS
Herl #27-2
Job Ticket: 51645 **DST#: 1**
Test Start: 2013.02.04 @ 12:15:50

Tool Information

Drill Pipe:	Length: 3637.00 ft	Diameter: 3.80 inches	Volume: 51.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 52.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3885.00 ft			Final 66000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Packer	5.00			3880.00	21.00 Bottom Of Top Packer
Packer	5.00			3885.00	
Stubb	1.00			3886.00	
Recorder	0.00	8369	Inside	3886.00	
Recorder	0.00	8700	Outside	3886.00	
Perforations	26.00			3912.00	
Bullnose	3.00			3915.00	30.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

27-13s-26w Gove,KS
Herl #27-2
Job Ticket: 51645 **DST#: 1**
Test Start: 2013.02.04 @ 12:15:50

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

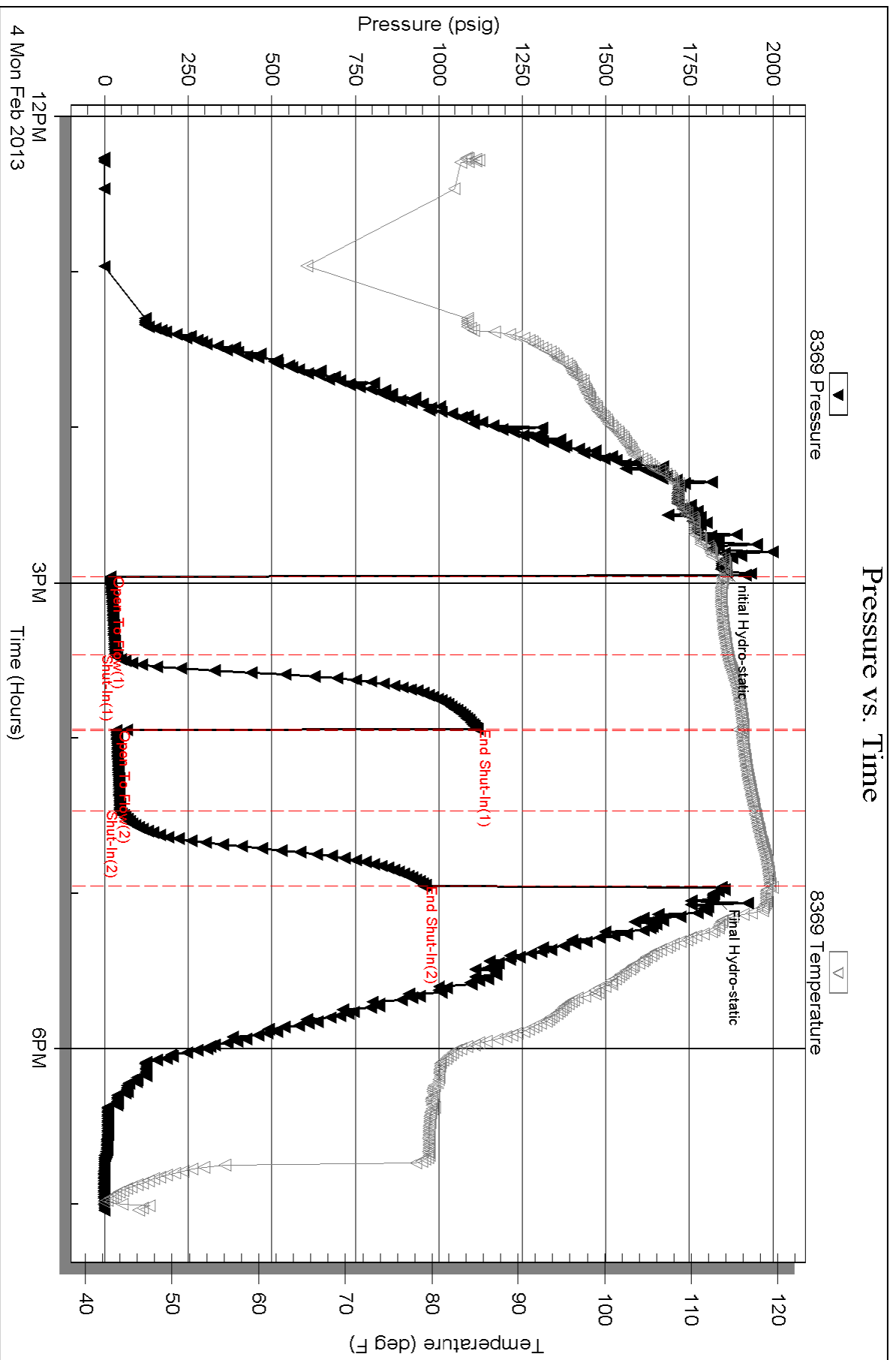
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 10%O90%M	0.148
35.00	VHOCM 45%O55%M	0.172

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

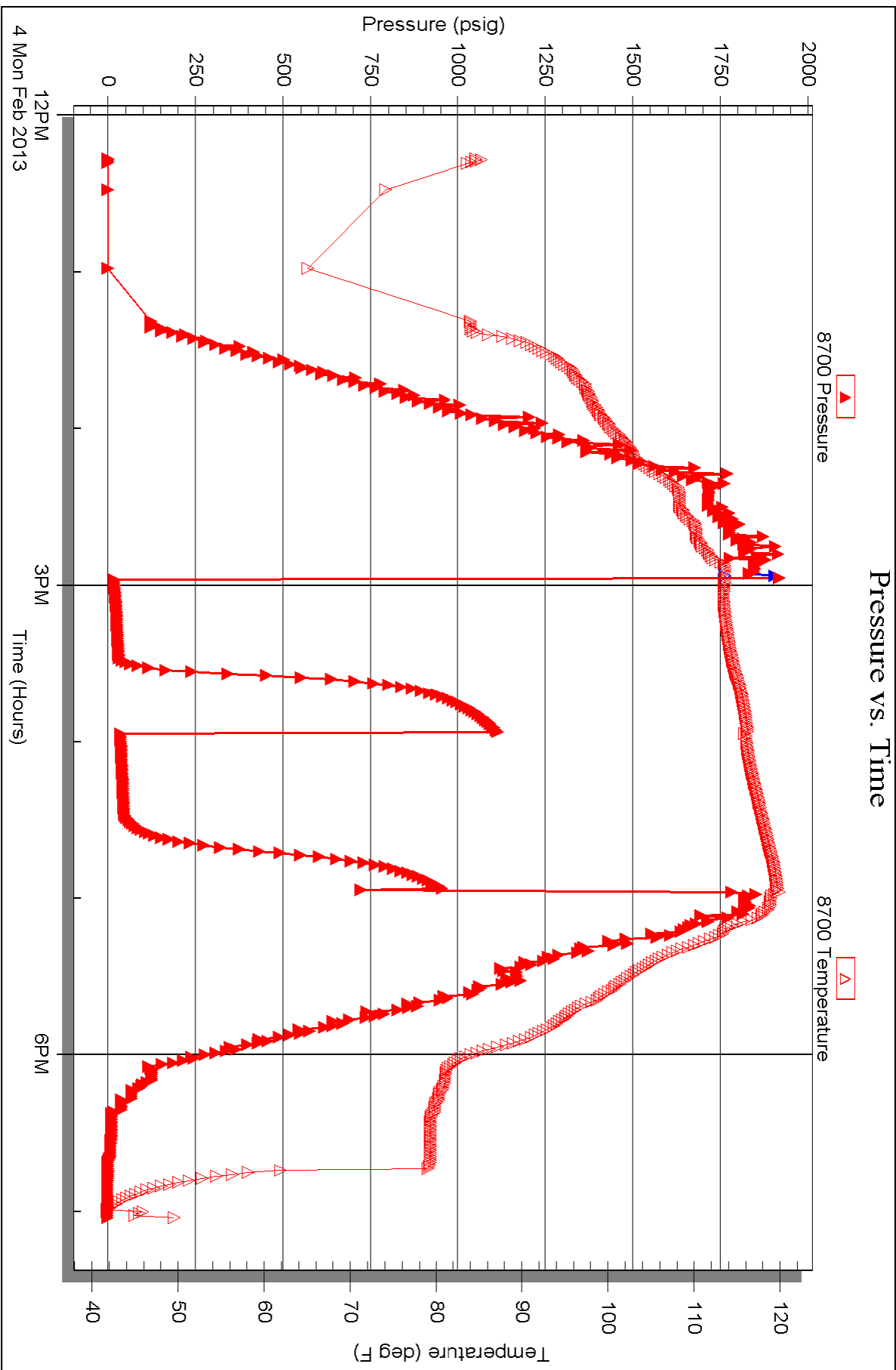


Serial #: 8700

Outside H&C Oil Operating Inc

Her1 #27-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51645

Printed: 2013.02.07 @ 10:09:18



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51645

Well Name & No. Herl # 27-2 Test No. 1 Date 2-4-13
 Company H+C OIL OPERATING, Inc Elevation 2392 KB 2381 GL
 Address PO Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig H2 drlg rig 2
 Location: Sec. 27 Twp. 13^s Rge. 26^w Co. Gove State Ks

Interval Tested 3885-3915 Zone Tested LKC J-K
 Anchor Length 30 Drill Pipe Run 3637 Mud Wt. 9.2
 Top Packer Depth 3880 Drill Collars Run 240 Vis 6.8
 Bottom Packer Depth 3885 Wt. Pipe Run - WL 8.8
 Total Depth 3915 Chlorides 2000 ppm System LCM 1 1/2 #

Blow Description IFP - WEAK Blow thru-out 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>VHOCM</u>	<u>45</u>		<u>55</u>	
<u>30</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 119 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1846 Test 1150 T-On Location 1045
 (B) First Initial Flow 17 Jars - T-Started 1215
 (C) First Final Flow 32 Safety Joint - T-Open 1455
 (D) Initial Shut-In 1115 Circ Sub - T-Pulled 1655
 (E) Second Initial Flow 35 Hourly Standby - T-Out 1902

(F) Second Final Flow 46 Mileage ~~122 RT~~ 88rt 136.40 Comments Motel - 2 days
 (G) Final Shut-In 952 Sampler - Released 8am 2-6-13
 (H) Final Hydrostatic 1821 Straddle - Ruined Shale Packer -

Initial Open 30 Shale Packer - Ruined Packer -
 Initial Shut-In 30 Extra Packer - Extra Copies -
 Final Flow 30 Extra Recorder - Sub Total 800
 Final Shut-In 30 Day Standby 1d 13h Total 2086.40
 Accessibility - MP/DST Disc't -
 Sub Total 1286.40

Approved By _____ Our Representative RAY SCHWAGER *Thank you*

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