Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1111850

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 # 8914
Name: H & C Oil Operating Inc.
Address 1: PO BOX 86
Address 2:
City: PLAINVILLE State: KS Zip: 67663 + 0086
Contact Person: Charles Ramsay
Phone: (785) 434-7434
CONTRACTOR: License # 33793
Name: H2 Drilling LLC
Wellsite Geologist: Marc Downing
Purchaser: Plains Marketing

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 #:

01/17/2013	01/26/2013	03/08/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-22077-00-00
Spot Description:
NW SE SW SE Sec. 36 Twp. 15 S. R. 28 ☐ East ☑ West
500 Feet from ☐ North / ☑ South Line of Section
1750 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Gove
Lease Name: Bentley Well #: 36-2
Field Name:
Producing Formation: Lansing
Elevation: Ground: 2510 Kelly Bushing: 2521
Total Vertical Depth: 4400 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 266 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2580 Feet
If Alternate II completion, cement circulated from: 2580
feet depth to: 0 w/ 380 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 3000 ppm Fluid volume: 40 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 03/25/2013
☑ **Confidential Release Date:** 03/25/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 03/25/2013

1111850

Operator Name: H & C Oil Operating Inc. Lease Name: Bentley Well #: 36-2

Sec. 36 Twp. 15 S. R. 28 ☐ East ☑ West County: Gove

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12.25	8.625	23	266	common	185	3%cc, 2%gel
production	7.875	5.5	14	4394	common	165	10% salt, 5% gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☑ Protect Casing ☐ Plug Back TD ☑ Plug Off Zone	0-2580	QMDC	380	1/4#floseal per sack
	3912-3916	common	250	2%cc

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 *(Amount and Kind of Material Used)*	Depth
4	4210-4213	250 gal 15%MCA	4213
	4195	CIBP	4195
4	4038-4042	2000 gal 15% MCA	4042
4	3912-3916	250 gal 15%MCA	3916
6	3911.5-3912.5	500 gal 15% MCA	3912.5

TUBING RECORD: Size: 2.8750 Set At: 4185 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/13/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20		40		36

DISPOSITION OF GAS:

☐ Vented ☐ Sold ☐ Used on Lease

(If vented, Submit ACO-18.)

METHOD OF COMPLETION:

☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

☐ Other *(Specify)*

PRODUCTION INTERVAL: 3911.5-4042

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Bentley 36-2
Doc ID	1111850

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Bentley 36-2
Doc ID	1111850

Tops

Name	Top	Datum
Top Anhydrite	1948	+573
Base Anhydrite	1982	+539
Heebner	3706	-1185
Lansing	3742	-1221
Stark	3996	-1475
BKC	4061	-1540
Marmaton	4084	-1563
Fort Scott	4247	-1726
Cherokee	4272	-1751
Mississippi	4344	-1823
Warsaw	4349	-1828

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

Kansas
Corporation Commission

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

March 06, 2013

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

Re: ACO1
API 15-063-22077-00-00
Bentley 36-2
SE/4 Sec.36-15S-28W
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

Marc Downing
Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY H&C Oil Operating, Inc.

WELL Bentley #34-2
FIELD Wildcat
LOCATION 500' FSL & 1750' FEL
SEC. 34 TWP. 15s RGE. 28w
COUNTY Gove
STATE Kansas

15s 28w — 34

PRODUCTION LKC

ELEVATION KB 2521
DF
GL 2510
Drilling Measured From: KB

Samples Saved From 3550 To: TD
Drilling Time From 3700 To: TD
Samples Examined From: 3700 To: TD
Geological Supervision From 3550 To Total Depth
Wellsite Geologist Marc Downing
Electrical Surveys Pioneer
CNL/CDL
DIL
MEL

OPERATOR H&C Oil Operating, Inc.
CONTRACTOR HZ Rig #2
COMM: 1-18-13 COMP: 1-26-13

CASING RECORD

SURF: 8⅝" @ 266' PROD: 5½" @ 4397'
TOTAL DEPTH DRILLERS: 4400'
TOTAL DEPTH LOG: 4398'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1950	1948	+573	+11
Base Anhydrite	1986	1982	+539	+10
HEEBNER	3712	3706	-1185	-4
Lansing	3750	3742	-1221	+5
Stark	[redacted] 4001	3996	-1475	-8
BKC	4065	4061	-1540	-9
Marmaton	4090	4084	-1563	-9
Fort Scott	4252	4247	-1726	-10
CHEROKEE SH.	4274	4272	-1751	-9
Miss / Spergen	4347	4344	-1823	+22
Warsaw	4352	4349	-1828	+26

REFERENCE WELL FOR STRUCTURE H&C Oil Operating, Inc
Bentley #34-1 330' FNL & 1850' FEL Sec. 34-15s-28w

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	BHP/BHP	RECOVERY

REMARKS AND RECOMMENDATIONS Due to structural position, DST recovery, & log evaluation, it was decided to set 5½" production casing for completion.

Perforate:

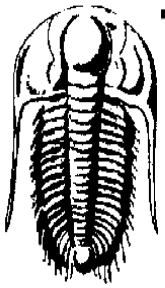
LKC "L" : 4039-41 (DST #3)
"H" : 3912-16 (DST #2)
"G" : 3898-3900 (Before Abandonment)
"K" : 4009-16 (" ")

Marc Downing

LEGEND

Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Ool.Lime, Chert, Dolomite

DRILLING TIME IN MINUTES PER FOOT — Rate of Penetration Decreases | DEPTH | LITHOLOGY | SAMPLE DESCRIPTIONS | OIL SHOWS | REMARKS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Bentley #36-2

36-15s-28w Gove,KS

Start Date: 2013.01.22 @ 14:56:00
End Date: 2013.01.22 @ 23:31:10
Job Ticket #: 49991 DST #: 1

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

Printed: 2013.01.31 @ 08:12:05

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49991 **DST#: 1**

Test Start: 2013.01.22 @ 14:56:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:55:40
Time Test Ended: 23:31:10

Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 58

Interval: 3822.00 ft (KB) To 3854.00 ft (KB) (TVD)
Total Depth: 3854.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

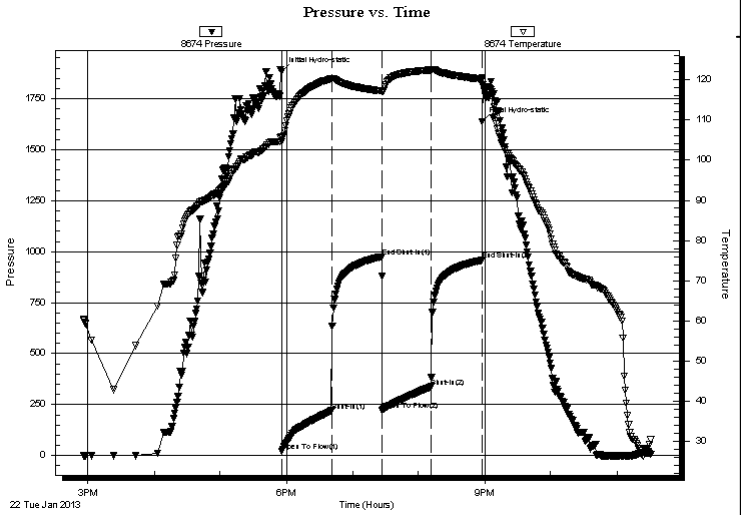
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 336.95 psig @ 3823.00 ft (KB)
Start Date: 2013.01.22 End Date: 2013.01.22
Start Time: 14:56:00 End Time: 23:31:10

Capacity: 8000.00 psig
Last Calib.: 2013.01.22
Time On Btm: 2013.01.22 @ 17:55:25
Time Off Btm: 2013.01.22 @ 20:57:39

TEST COMMENT: IF- Surface Blow Built to BOB in 12 3/4 min
ISI- No Blow
FF- Weak Surface Built to 4"
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.47	105.73	Initial Hydro-static
1	21.34	104.67	Open To Flow (1)
46	219.36	120.29	Shut-In(1)
91	974.57	117.23	End Shut-In(1)
92	223.48	117.08	Open To Flow (2)
136	336.95	122.47	Shut-In(2)
182	957.53	120.15	End Shut-In(2)
183	1637.67	120.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 20%m 80%w w ith Skim of Oil on	1.21
372.00	MCW 8%m 92%w	5.22
89.00	MCW 32%m 68%w	1.25

Gas Rates

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

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49991 **DST#: 1**

Test Start: 2013.01.22 @ 14:56:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:55:40
Time Test Ended: 23:31:10

Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 58

Interval: 3822.00 ft (KB) To 3854.00 ft (KB) (TVD)
Total Depth: 3854.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

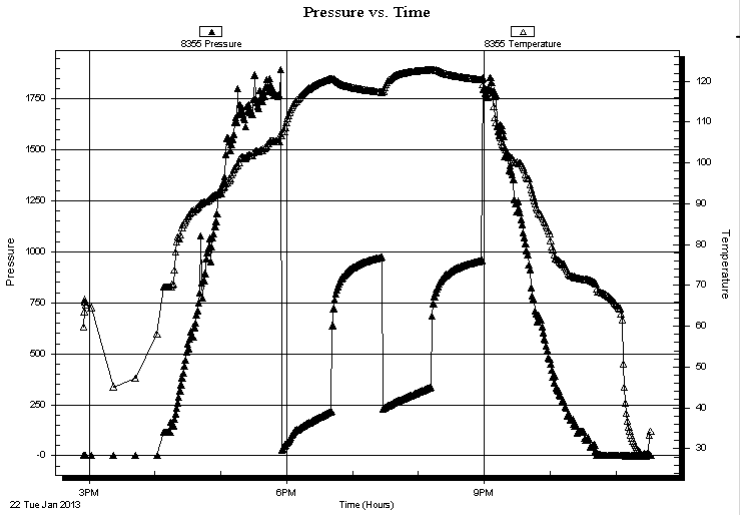
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8355 **Outside**

Press@RunDepth: psig @ 3823.00 ft (KB)
Start Date: 2013.01.22 End Date: 2013.01.22
Start Time: 14:55:00 End Time: 23:31:55

Capacity: 8000.00 psig
Last Calib.: 2013.01.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to BOB in 12 3/4 min
ISI- No Blow
FF- Weak Surface Built to 4"
FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 20%m 80%w w ith Skim of Oil on	1.21
372.00	MCW 8%m 92%w	5.22
89.00	MCW 32%m 68%w	1.25

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49991 **DST#: 1**

Test Start: 2013.01.22 @ 14:56:00

Tool Information

Drill Pipe:	Length:	3583.00 ft	Diameter:	3.80	inches	Volume:	50.26	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	237.00 ft	Diameter:	2.25	inches	Volume:	1.17	bbl	
						Total Volume:	51.43	bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	3822.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	32.00 ft
Tool Length:	52.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		1500.00 lb
Weight set on Packer:		24000.00 lb
Weight to Pull Loose:		4000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	66000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3803.00		
Shut In Tool	5.00			3808.00		
Hydraulic tool	5.00			3813.00		
Packer	5.00			3818.00	20.00	Bottom Of Top Packer
Packer	4.00			3822.00		
Stubb	1.00			3823.00		
Recorder	0.00	8355	Outside	3823.00		
Recorder	0.00	8674	Inside	3823.00		
Perforations	28.00			3851.00		
Bullnose	3.00			3854.00	32.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49991 **DST#: 1**

Test Start: 2013.01.22 @ 14:56:00

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:	95000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.90 in³	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
240.00	MCW 20%m 80%w w ith Skim of Oil on to	1.208
372.00	MCW 8%m 92%w	5.218
89.00	MCW 32%m 68%w	1.248

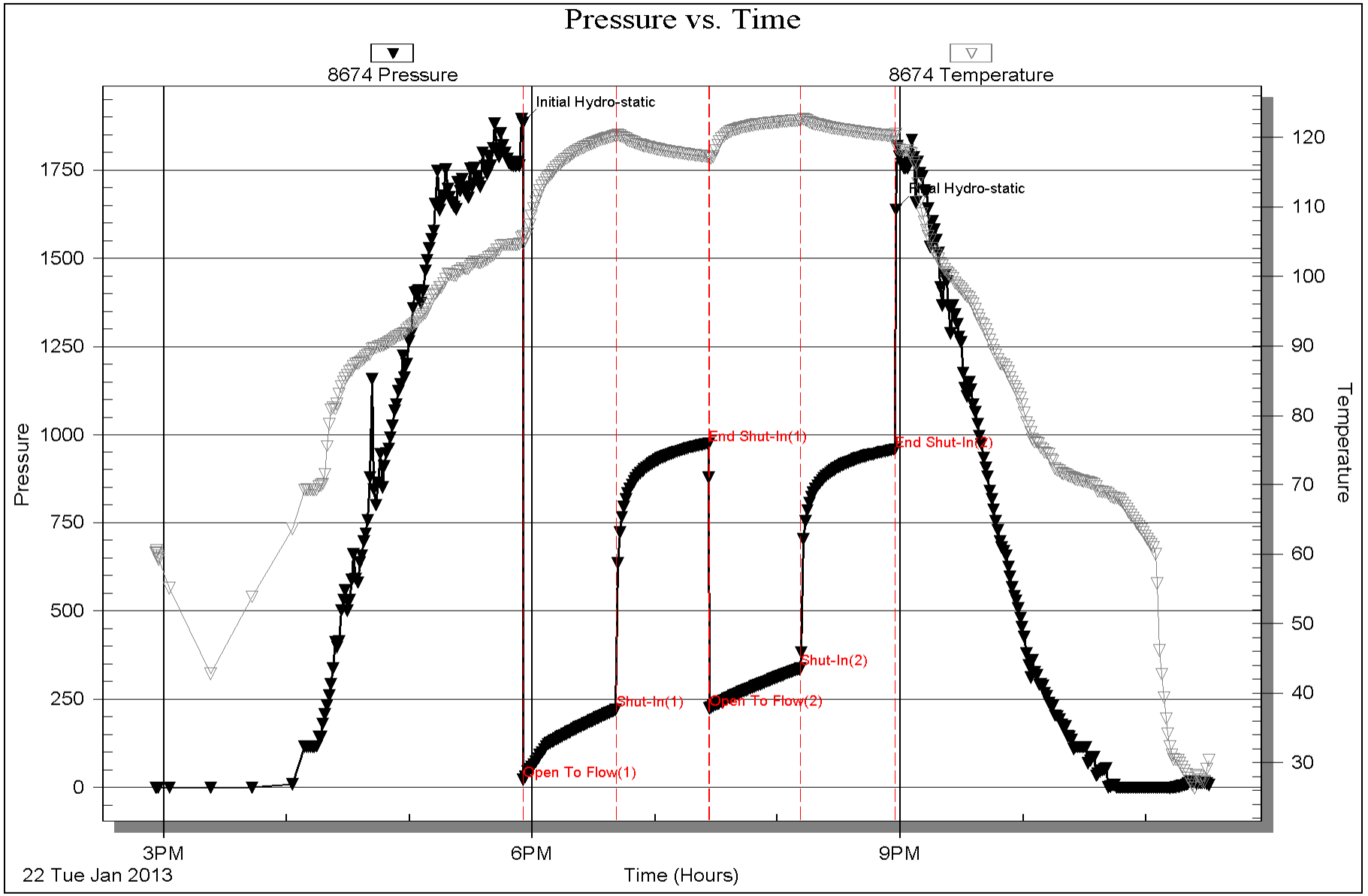
Total Length: 701.00 ft Total Volume: 7.674 bbl

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

Laboratory Name: Laboratory Location:

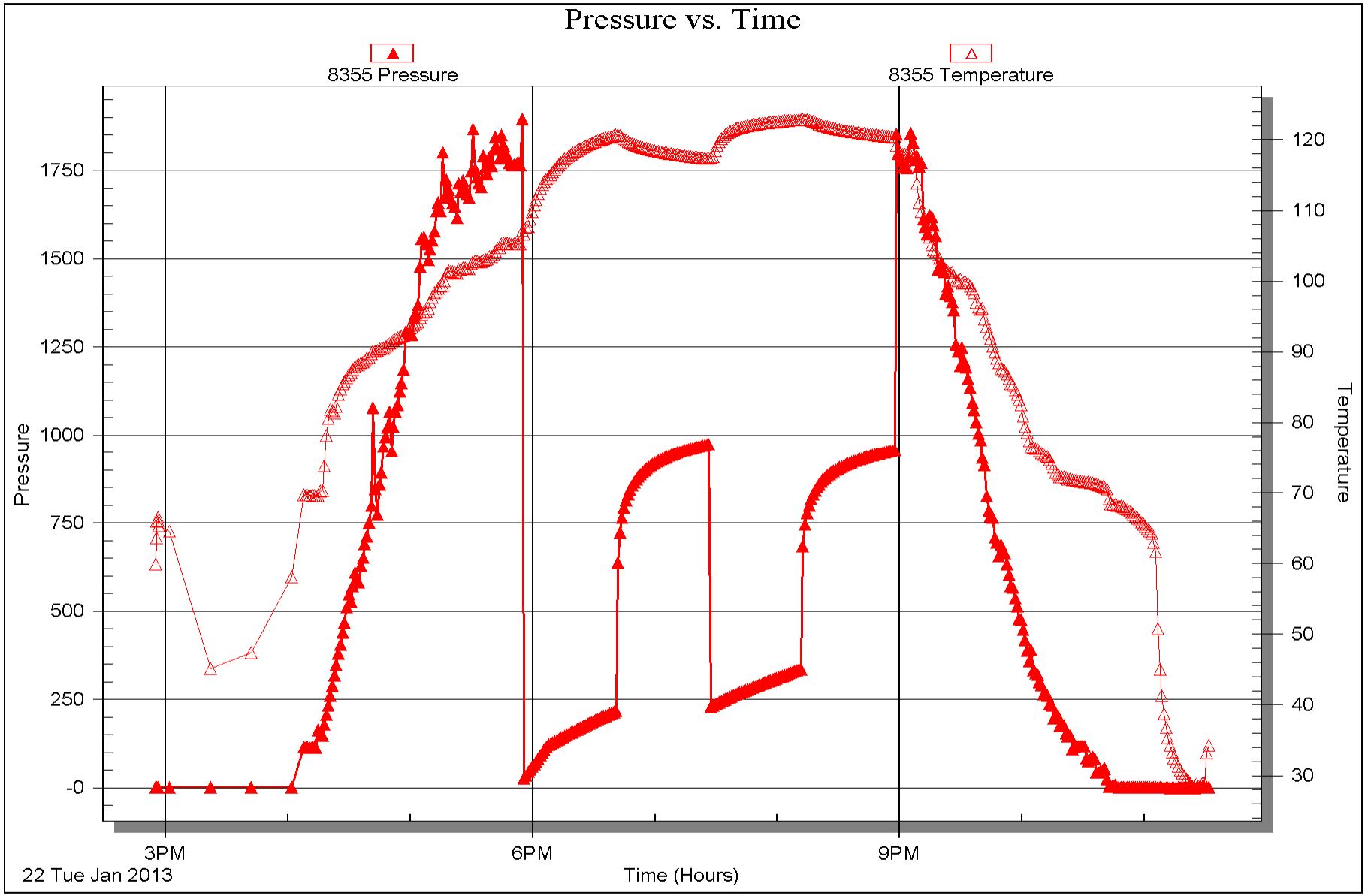
Recovery Comments: RW is .162 @ 34f = 95000

Serial #: 8674 **Inside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 49991 Printed: 2013.01.31 @ 08:12:07

Serial #: 8355 **Outside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 1



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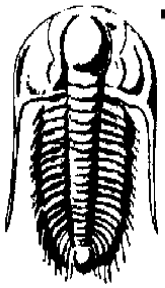


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Bentley #36-2

36-15s-28w Gove,KS

Start Date: 2013.01.23 @ 12:40:00
End Date: 2013.01.23 @ 20:57:09
Job Ticket #: 49992 DST #: 2

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

Printed: 2013.01.31 @ 08:11:18

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49992 **DST#: 2**

Test Start: 2013.01.23 @ 12:40:00

GENERAL INFORMATION:

Formation: **LKC " H - I "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:04:55
Time Test Ended: 20:57:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 58

Interval: 3896.00 ft (KB) To 3964.00 ft (KB) (TVD)
Total Depth: 3854.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

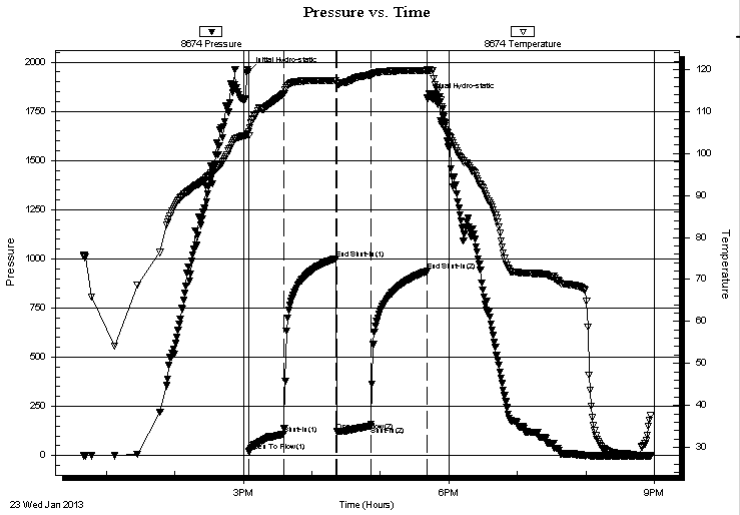
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 150.31 psig @ 3897.00 ft (KB)
Start Date: 2013.01.23 End Date: 2013.01.23
Start Time: 12:40:00 End Time: 20:57:09

Capacity: 8000.00 psig
Last Calib.: 2013.01.23
Time On Btm: 2013.01.23 @ 15:04:40
Time Off Btm: 2013.01.23 @ 17:40:54

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 10 1/2 min
ISI- Weak Surface Blow in 8min Built to 1/2"
FF- Weak Surface Blow Built to BOB in 11 1/2 min
FSI- Weak Surface Blow in 5min Built to 3/4'



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.54	105.12	Initial Hydro-static
1	19.29	104.27	Open To Flow (1)
31	109.25	114.18	Shut-In(1)
76	1000.84	117.31	End Shut-In(1)
78	122.80	116.58	Open To Flow (2)
107	150.31	118.72	Shut-In(2)
156	936.21	119.71	End Shut-In(2)
157	1819.99	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WMOCG 2%w 25%m 33%oil 40%g	0.30
180.00	MCOG 19%m 32%g 49%oil	0.91
62.00	MCGO 18%m 20%g 62%oil	0.87
77.00	GO 7%g 93%oil	1.08
0.00	481' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49992 **DST#: 2**

Test Start: 2013.01.23 @ 12:40:00

GENERAL INFORMATION:

Formation: **LKC " H - I "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:04:55
Time Test Ended: 20:57:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 58

Interval: 3896.00 ft (KB) To 3964.00 ft (KB) (TVD)
Total Depth: 3854.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

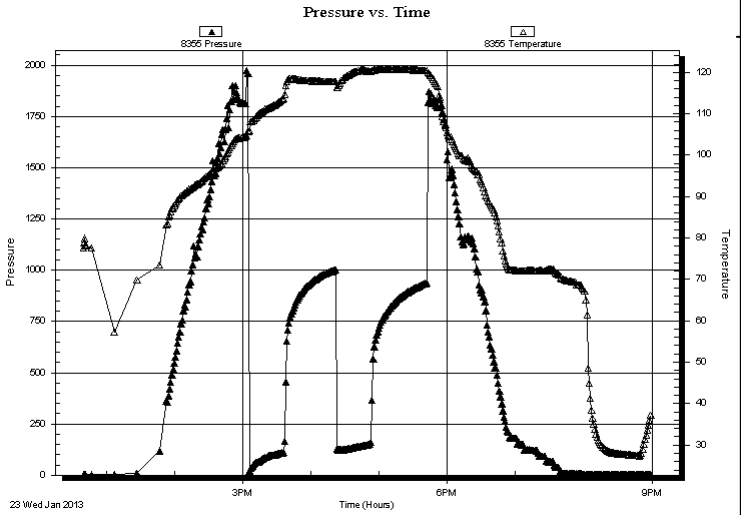
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8355 **Outside**

Press@RunDepth: psig @ 3897.00 ft (KB)
Start Date: 2013.01.23 End Date: 2013.01.23
Start Time: 12:40:05 End Time: 20:58:59

Capacity: 8000.00 psig
Last Calib.: 2013.01.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 10 1/2 min
ISI- Weak Surface Blow in 8min Built to 1/2"
FF- Weak Surface Blow Built to BOB in 11 1/2 min
FSI- Weak Surface Blow in 5min Built to 3/4'



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WMOCG 2%w 25%m 33%oil 40%g	0.30
180.00	MCOG 19%m 32%g 49%oil	0.91
62.00	MCGO 18%m 20%g 62%oil	0.87
77.00	GO 7%g 93%oil	1.08
0.00	481' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49992 **DST#: 2**

Test Start: 2013.01.23 @ 12:40:00

Tool Information

Drill Pipe:	Length:	3645.00 ft	Diameter:	3.80 inches	Volume:	51.13 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		28000.00 lb
Drill Collar:	Length:	237.00 ft	Diameter:	2.25 inches	Volume:	1.17 bbl	Weight to Pull Loose:		18000.00 lb
					Total Volume:	52.30 bbl	Tool Chased		ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	62000.00 lb
Depth to Top Packer:		3896.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		68.00 ft							
Tool Length:		88.00 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			3877.00		
Shut In Tool	5.00			3882.00		
Hydraulic tool	5.00			3887.00		
Packer	5.00			3892.00	20.00	Bottom Of Top Packer
Packer	4.00			3896.00		
Stubb	1.00			3897.00		
Recorder	0.00	8355	Outside	3897.00		
Recorder	0.00	8674	Inside	3897.00		
Perforations	28.00			3925.00		
Change Over Sub	1.00			3926.00		
Packer - Shale	31.00			3957.00		
Change Over Sub	1.00			3958.00		
Perforations	3.00			3961.00		
Bullnose	3.00			3964.00	68.00	Bottom Packers & Anchor
Total Tool Length:	**88.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49992 **DST#: 2**

Test Start: 2013.01.23 @ 12:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.76 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WMOCG 2%w 25%m 33%oil 40%g	0.295
180.00	MCOG 19%m 32%g 49%oil	0.913
62.00	MCGO 18%m 20%g 62%oil	0.870
77.00	GO 7%g 93%oil	1.080
0.00	481' of GIP	0.000

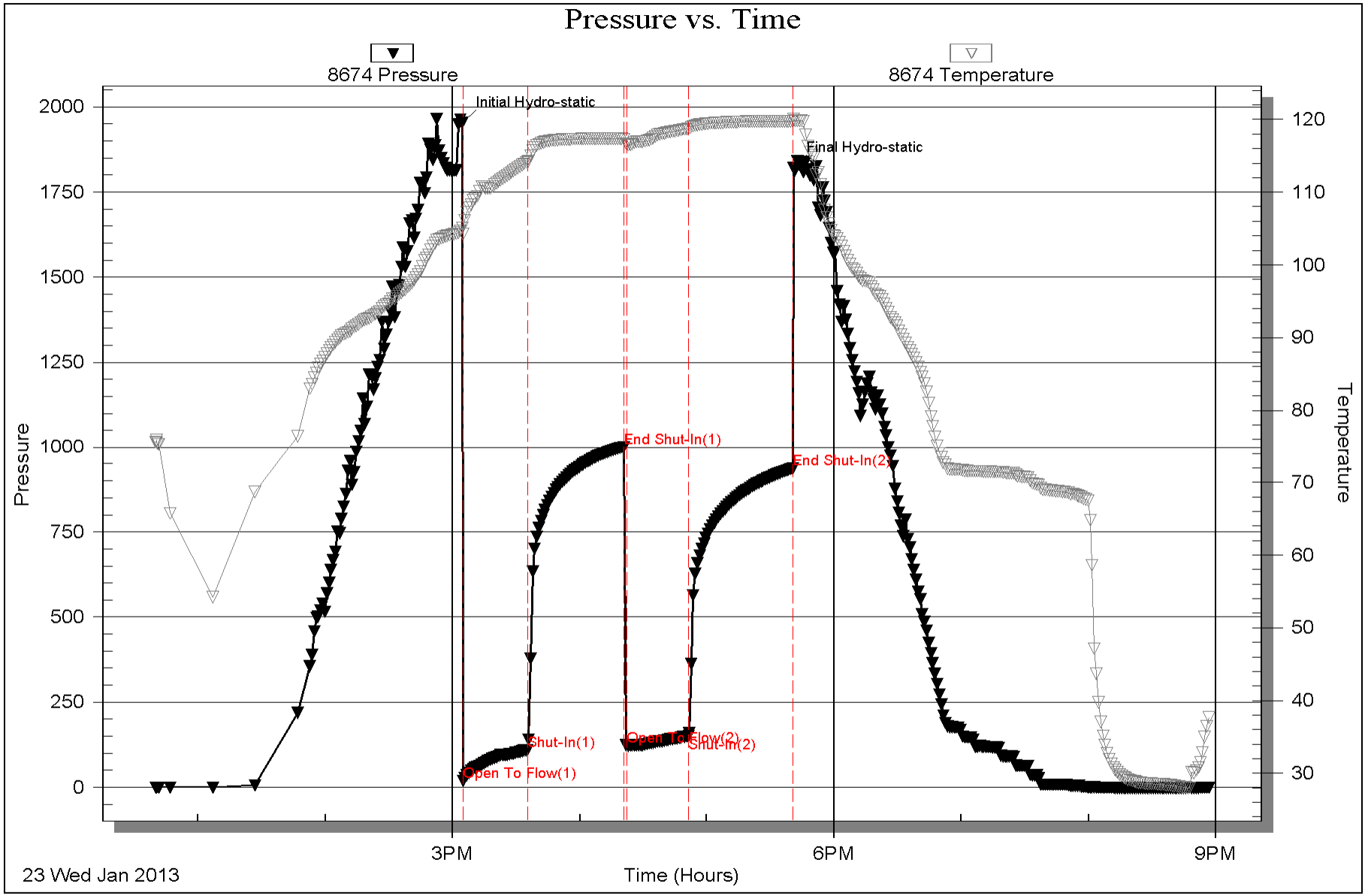
Total Length: 379.00 ft Total Volume: 3.158 bbl

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

Laboratory Name: Laboratory Location:

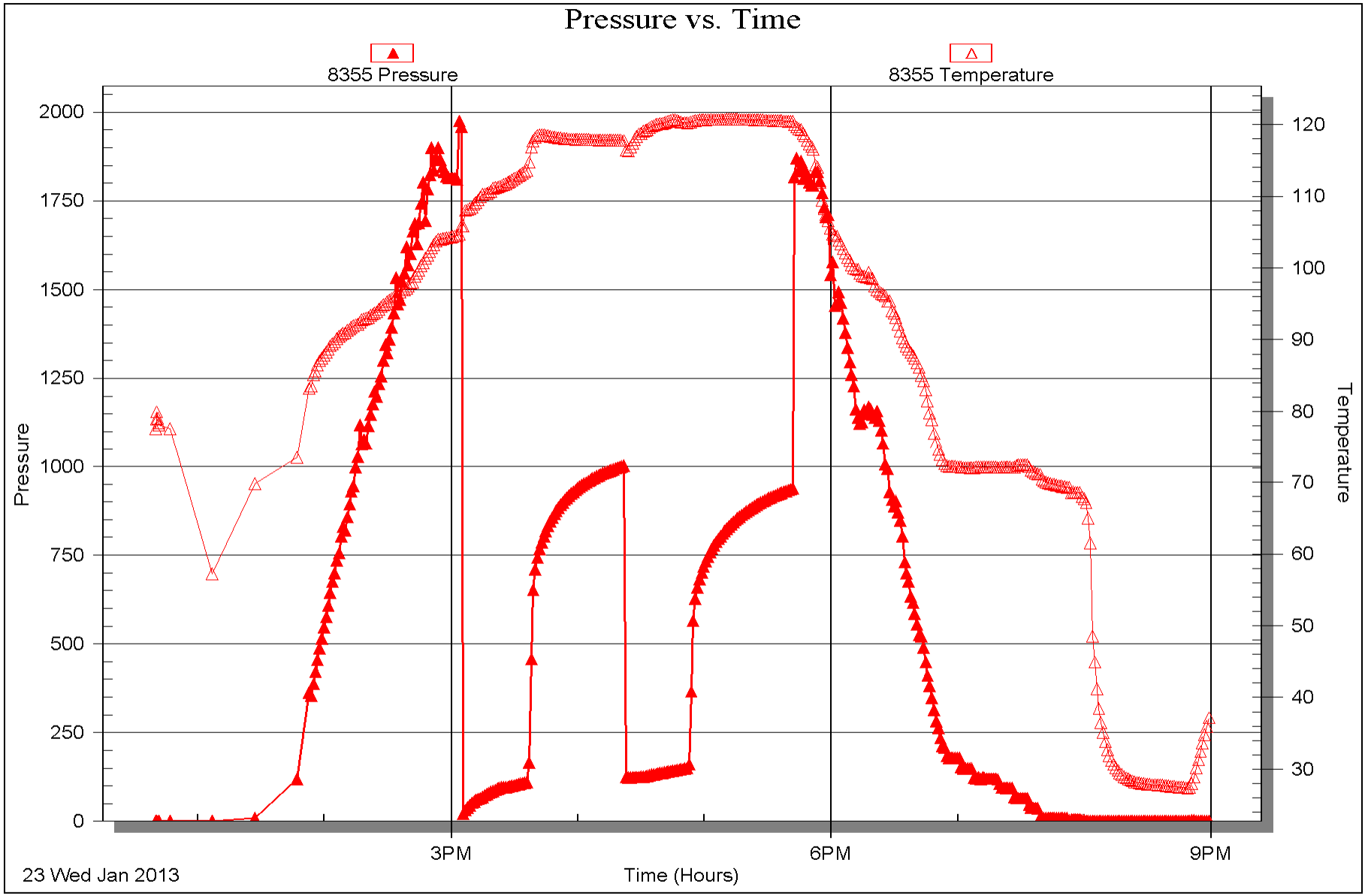
Recovery Comments: API is 32 @ 40f = 34

Serial #: 8674 **Inside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 2

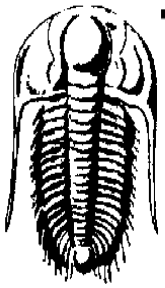


Trilobite Testing, Inc Ref. No: 49992 Printed: 2013.01.31 @ 08:11:21

Serial #: 8355 **Outside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 49992 Printed: 2013.01.31 @ 08:11:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Bentley #36-2

36-15s-28w Gove,KS

Start Date: 2013.01.24 @ 15:18:00
End Date: 2013.01.24 @ 23:49:39
Job Ticket #: 49993 DST #: 3

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

Printed: 2013.01.31 @ 08:09:27

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49993 **DST#: 3**

Test Start: 2013.01.24 @ 15:18:00

GENERAL INFORMATION:

Formation: **LKC " L "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:05:10
Time Test Ended: 23:49:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 58

Interval: 4030.00 ft (KB) To 4070.00 ft (KB) (TVD)
Total Depth: 4070.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

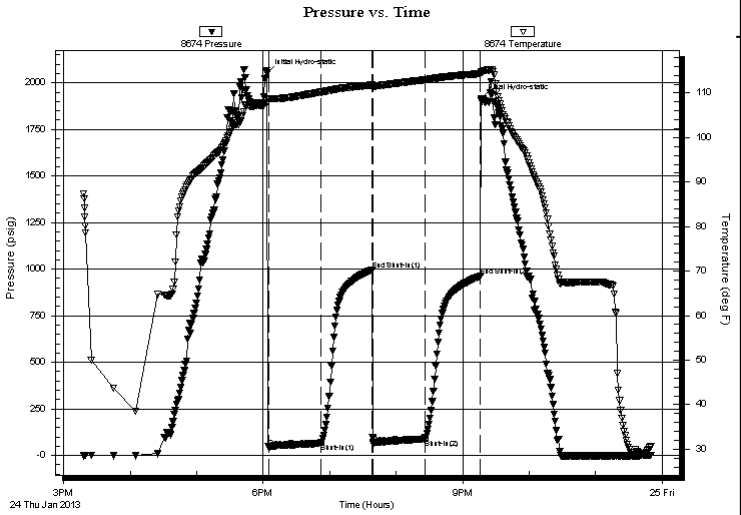
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 89.28 psig @ 4031.00 ft (KB)
Start Date: 2013.01.24 End Date: 2013.01.24
Start Time: 15:18:00 End Time: 23:49:39

Capacity: 8000.00 psig
Last Calib.: 2013.01.24
Time On Btm: 2013.01.24 @ 18:03:40
Time Off Btm: 2013.01.24 @ 21:16:24

TEST COMMENT: IF- Chased Tool to Bottom 5' 3" Blow Built to 9"
ISI- No Blow
FF- Weak Surface Blow Built to 9 3/4"
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.07	107.80	Initial Hydro-static
2	46.29	108.74	Open To Flow (1)
49	64.90	110.19	Shut-In(1)
95	996.03	111.81	End Shut-In(1)
96	66.54	111.51	Open To Flow (2)
143	89.28	112.96	Shut-In(2)
193	962.67	114.36	End Shut-In(2)
193	1913.68	114.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 12%g 19%oil 69%m	0.30
60.00	OGCM 15%oil 23%g 62%m	0.30
60.00	OGCM 2%oil 4%g 94%m	0.30
0.00	246' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49993 **DST#: 3**

Test Start: 2013.01.24 @ 15:18:00

GENERAL INFORMATION:

Formation: **LKC " L "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:05:10
Time Test Ended: 23:49:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 58

Interval: 4030.00 ft (KB) To 4070.00 ft (KB) (TVD)
Total Depth: 4070.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

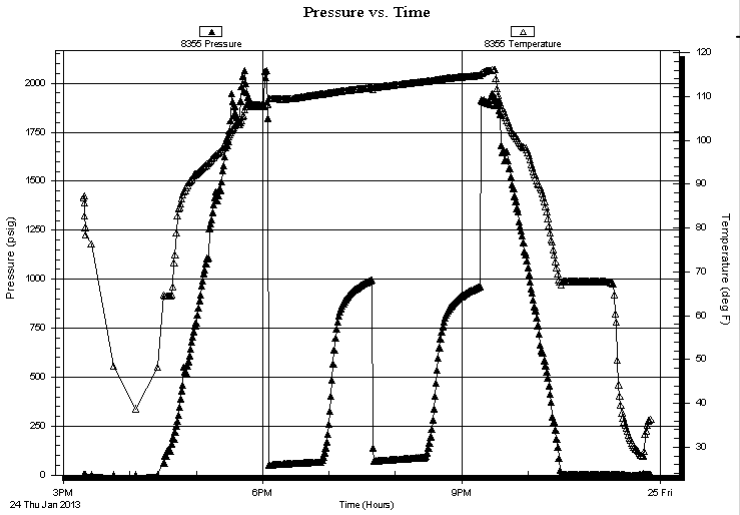
Reference Elevations: 2521.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8355 **Outside**

Press@RunDepth: psig @ 4031.00 ft (KB)
Start Date: 2013.01.24 End Date: 2013.01.24
Start Time: 15:18:05 End Time: 23:51:30

Capacity: 8000.00 psig
Last Calib.: 2013.01.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Chased Tool to Bottom 5' 3" Blow Built to 9"
ISI- No Blow
FF- Weak Surface Blow Built to 9 3/4"
FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 12%g 19%oil 69%m	0.30
60.00	OGCM 15%oil 23%g 62%m	0.30
60.00	OGCM 2%oil 4%g 94%m	0.30
0.00	246' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49993 **DST#: 3**

Test Start: 2013.01.24 @ 15:18:00

Tool Information

Drill Pipe:	Length:	3801.00 ft	Diameter:	3.80	inches	Volume:	53.32	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	237.00 ft	Diameter:	2.25	inches	Volume:	1.17	bbl	
						Total Volume:	54.49	bbl	

Drill Pipe Above KB:	28.00 ft
Depth to Top Packer:	4030.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	40.00 ft
Tool Length:	60.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		1500.00 lb
Weight set on Packer:		28000.00 lb
Weight to Pull Loose:		6000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	64000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4011.00		
Shut In Tool	5.00			4016.00		
Hydraulic tool	5.00			4021.00		
Packer	5.00			4026.00	20.00	Bottom Of Top Packer
Packer	4.00			4030.00		
Stubb	1.00			4031.00		
Recorder	0.00	8355	Outside	4031.00		
Recorder	0.00	8674	Inside	4031.00		
Perforations	36.00			4067.00		
Bullnose	3.00			4070.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**60.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Dow ning

36-15s-28w Gove,KS

Bentley #36-2

Job Ticket: 49993 **DST#: 3**

Test Start: 2013.01.24 @ 15:18:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

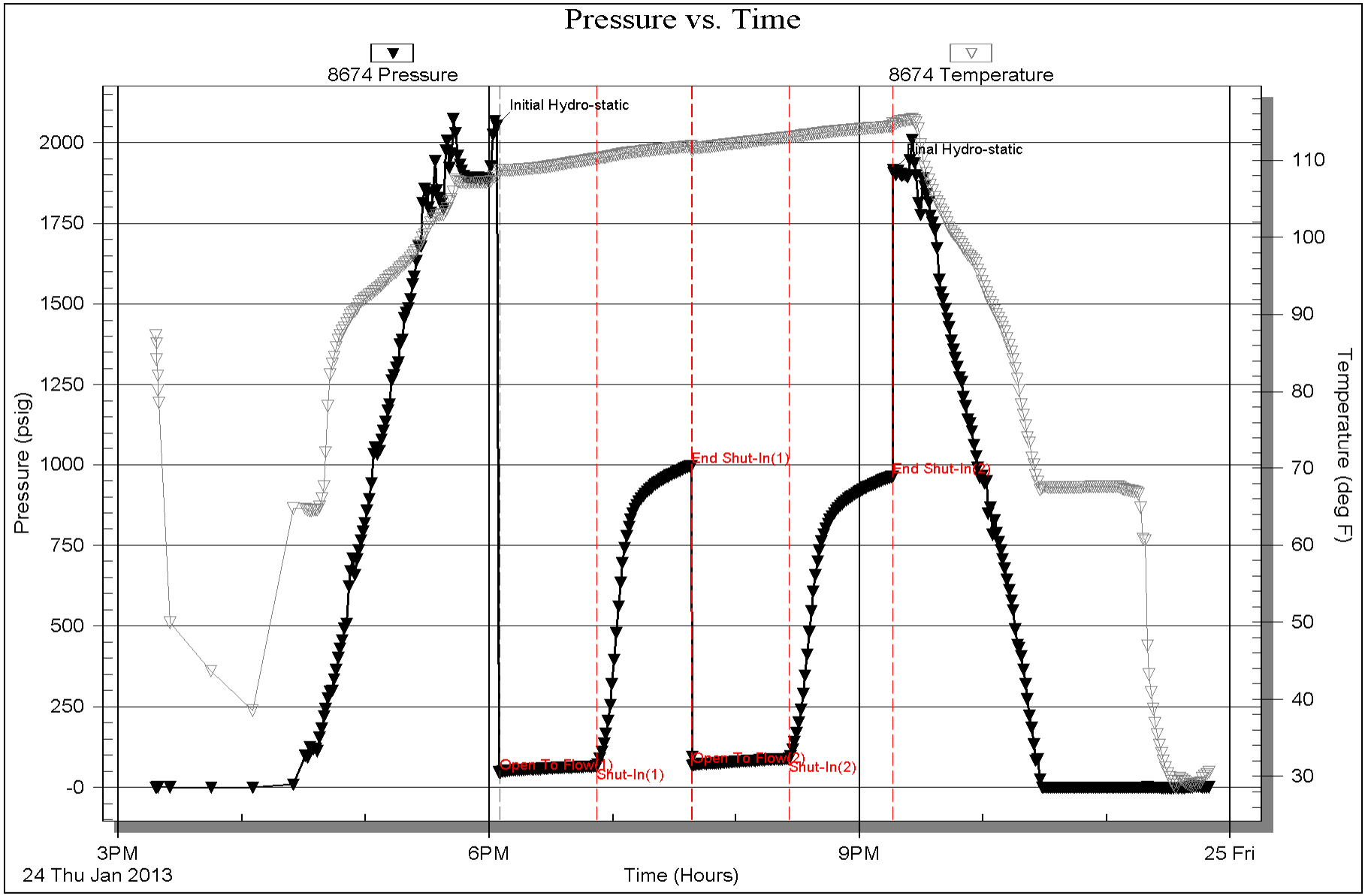
Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 12%g 19%oil 69%m	0.295
60.00	OGCM 15%oil 23%g 62%m	0.295
60.00	OGCM 2%oil 4%g 94%m	0.295
0.00	246' of GIP	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbl

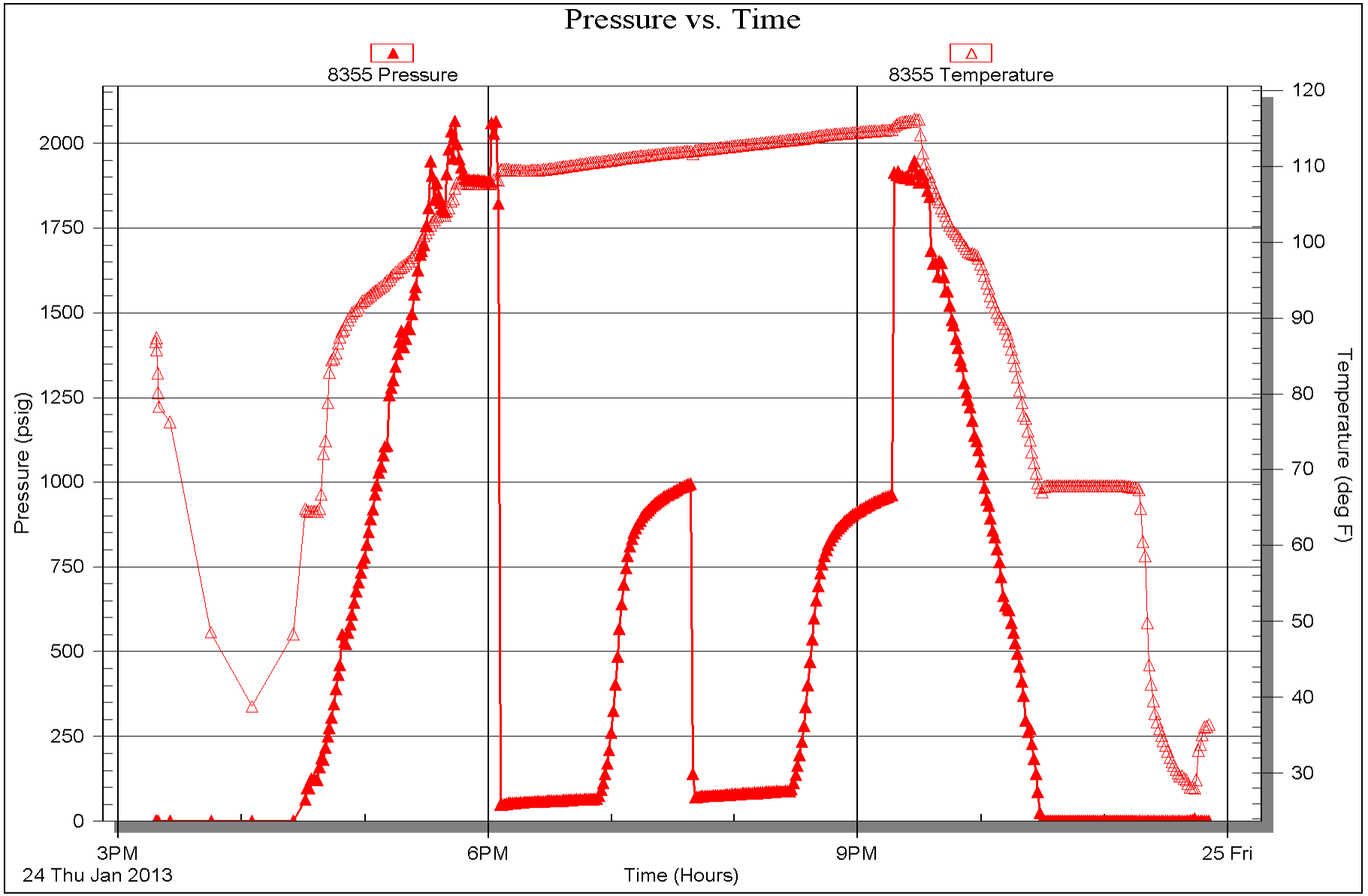
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Inside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 49993 Printed: 2013.01.31 @ 08:09:30

Serial #: 8355 **Outside** H&C Oil Operating Inc. Bentley #36-2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 49993 Printed: 2013.01.31 @ 08:09:30

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 49991

Well Name & No. Bentley #36-2 Test No. DST #1 Date 1-22-13

Company H & C Oil Operating Inc Elevation 2521 KB 2510 GL

Address P.O Box 86 Plainville KS 67663

Co. Rep / Geo. Marc Downing Rig H-2 Rig #2

Location: Sec. 36 Twp. 15s Rge. 28W Co. Gove State KS

Interval Tested 3822 - 3854 Zone Tested LKC "E & F"

Anchor Length 32 Drill Pipe Run 3583 Mud Wt. 9.1

Top Packer Depth 3818 Drill Collars Run 237 Vis 58

Bottom Packer Depth 3822 Wt. Pipe Run 0 WL 8.0

Total Depth 3854 Chlorides 2000 ppm System LCM 2#6

Blow Description IF - Surface Blow Built to BOB in 12¾'

ISI - No Blow

FF - Weak Surface Blow Built to 4"

FSI - No Blow

Rec 89	Feet of MCW with SKm of Oil on Top	%gas	%oil 68	%water 32	%mud
Rec 372	Feet of MCW	%gas	%oil 92	%water 8	%mud
Rec 240	Feet of MCW	%gas	%oil 80	%water 20	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 701 BHT 110 Gravity ____ API RW .162 @ 34 °F Chlorides 95000 ppm

(A) Initial Hydrostatic 1883	☑ Test 1150	T-On Location 12:00
(B) First Initial Flow 21	☐ Jars	T-Started 14:56
(C) First Final Flow 219	☐ Safety Joint	T-Open 17:55
(D) Initial Shut-In 974	☑ Circ Sub NIC	T-Pulled 20:57
(E) Second Initial Flow 223	☐ Hourly Standby	T-Out 23:31
(F) Second Final Flow 336	☑ Mileage 86 RT 133.30	Comments
(G) Final Shut-In 957	☐ Sampler	
(H) Final Hydrostatic 1637	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 45	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 1433.30
Final Shut-In 45	☑ Accessibility 150	MP/DST Disc't
	Sub Total 1433.30	

Approved By ____ Our Representative Jim Mac

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

4/10

Test Ticket

NO. 49992

Well Name & No. Bentley #36-2 Test No. DST #2 Date 1-23-13

Company H & C Oil Operating Inc Elevation 2521 KB 2510 GL

Address P.O Box 86 Plainville KS 67663

Co. Rep / Geo. Marc Downing Rig H2 R.S #2

Location: Sec. 36 Twp. 15S Rge. 28W Co. Gove State KS

Interval Tested 3896 - 3964 Zone Tested LKC "H-I"

Anchor Length 68 Drill Pipe Run 3645 Mud Wt. 9.2

Top Packer Depth 3892 Drill Collars Run 237 Vis 54

Bottom Packer Depth 3896 Wt. Pipe Run 0 WL 8.8

Total Depth 3964 Chlorides 3600 ppm System LCM 2#6

Blow Description IF- Weak Surface Blow Built to BOB in 10½ min
ISI- Weak Surface Blow Built to ½"
FF- Weak Surface Blow Built to BOB in 11½ min
FSI- Weak Surface Blow in 5 min Built to ¾"

Rec 77	Feet of GO	7 %gas	93 %oil	%water	%mud	
Rec 62	Feet of MCGO	20 %gas	62 %oil	%water	18 %mud	
Rec ~~180~~ 180	Feet of MCOG	32 %gas	49 %oil	%water	19 %mud	
Rec 60	Feet of WMOCG	40 %gas	33 %oil	2 %water	25 %mud	
Rec	Feet of 481' of GIP	%gas	%oil	%water	%mud	

Rec Total 379 BHT 113 Gravity 34 API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1952	☑ Test 1150	T-On Location 11:45	
(B) First Initial Flow 19	☐ Jars	T-Started 12:40	
(C) First Final Flow 109	☐ Safety Joint	T-Open 15:04	
(D) Initial Shut-In 1006	☑ Circ Sub N/C	T-Pulled 17:40	
(E) Second Initial Flow 122	☐ Hourly Standby	T-Out 20:57	
(F) Second Final Flow 150	☑ Mileage 86 R/T 133.30	Comments API 32 @ 40f = 34	
(G) Final Shut-In 936	☐ Sampler		
(H) Final Hydrostatic 1819	☐ 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 1433.30	
Final Shut-In 45	☑ Accessibility 150	MP/DST Disc't	
	Sub Total 1433.30		

Approved By ____ Our Representative Will M

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

4/10

Test Ticket

NO. 49993

Well Name & No. Bentley #36-2 Test No. DST #3 Date 1-24-13

Company H & C Oil Operating Inc Elevation 2521 KB 2510 GL

Address P.O Box 86 Plainville KS 67663

Co. Rep / Geo. Marc Downing Rig H-2 Rig #2

Location: Sec. 36 Twp. 15s Rge. 28w Co. Gove State KS

Interval Tested 4030-4070 Zone Tested LKC "L"

Anchor Length 40 Drill Pipe Run 3801 Mud Wt. 9.5

Top Packer Depth 4026 Drill Collars Run 237 Vis 51

Bottom Packer Depth 4030 Wt. Pipe Run 0 WL 10.4

Total Depth 4070 Chlorides 3000 ppm System LCM 2lb

Blow Description IF- Chased Tool to Bottom 5" 3" Blow Built to 9"

ISI- No Blow

FF- Weak Surface Blow Built to 9¾"

FSI- No Blow

Rec 60	Feet of OGCM	4 %gas	2 %oil	%water 94	%mud
Rec 60	Feet of OGCM	23 %gas	15 %oil	%water 62	%mud
Rec 60	Feet of GOCM	12 %gas	19 %oil	%water 69	%mud
Rec	Feet of 246' of GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 108 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2052	☑ Test 1250	T-On Location 14:16
(B) First Initial Flow 46	☐ Jars	T-Started 15:18
(C) First Final Flow 64	☐ Safety Joint	T-Open 18:05
(D) Initial Shut-In 996	☑ Circ Sub NIC	T-Pulled 21:16
(E) Second Initial Flow 66	☐ Hourly Standby	T-Out 23:49
(F) Second Final Flow 89	☑ Mileage 86 R/T X2 266.60	Comments got called to load at neos on 1-26-13
(G) Final Shut-In 962	☐ Sampler	
(H) Final Hydrostatic 1913	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 45	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 800
Final Flow 45	☑ Day Standby 1d 12.25h	Total 2466.60
Final Shut-In 45	☑ Accessibility 150	MP/DST Disc't
	Sub Total 1666.60	

Approved By ____ Our Representative Kirk Moore

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 6365

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-18-13	36	15	28	Gove	KS	4.30AM	7.15AM

Location Pendennis Pawnee RD IV to Lane 90nd Gove

Lease Bentley Well No 36-2 Owner CL Y4 Wintc

Contractor H2

Type Job Surface

Hole Size 12¼ T.D. 271

Csg. 8 5/8 Depth 271

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 20ft Shoe Joint 20ft

Meas Line Displace 16.0 BBL

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To H+C

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 185 3%cc 2%gel

EQUIPMENT

Pumptrk 9 No. Cementer Mate
Helper

Bulktrk 14 No. Driver Brett
Driver

Bulktrk pu No. Driver Lonnie W
Driver

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

Common	185
Poz. Mix	
Gel.	3
Calcium	7
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	195
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface	Discount	
Mileage	29		
		Tax	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6388

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-26-13				Grove	KS		3:15 PM

Location Pendennis, Ks - 2W to Pawnee Rd, 6N to C.L., ¼ W, N into

Lease Bentley Well No. 36-2 Owner

Contractor H-2 Plains

Type Job Squeeze

Hole Size T.D.

Csg. 5½" Depth

Tbg. Size 2 7/8" Depth 3970'

Tool RBP Depth 4003'

Cement Left in Csg. Shoe Joint

Meas Line Displace 24 3/4 BLS

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To H-C oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 250sx Common 2%CC 2 sand

EQUIPMENT

Pumptrk 16 No. Cementer / Helper Travis

Bulktrk 14 No. Driver / Driver Lonnie Mc

~~Bulktrk~~ P.U. No. Driver / Driver Rick

JOB SERVICES & REMARKS

Remarks: Spot Sand @ 3970' in

Rat Hole 17 BLS, Perfs 3912' - 16'

Mouse Hole Injection Rate of 2½ BPM

Centralizers @ 600 #.

Baskets Packer @ 3789' to Squeeze

D/V or Port Collar Pressure backside to 500 # Shut in. take injection Rate, Mix 150sx ~~Class A~~ Common 2%CC Shut down, wash pump + lines Displaced with 23 BLS Stage + Squeeze to 1500 #. Released + held. Reversed out Pull 10 Jts + Pressure to 500 # Shut in.

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature Rob Plant

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 0848

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-22-13	36	15	28	Gove	KS		5:30 AM

Location Quinter 4W to Penokee 6W 1/2W into

Lease Bentley	Well No. 36-2	Owner	
Contractor H-2 #2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job D.V. Job	Bottom		
Hole Size 7 7/8	T.D. 4408	Charge To H-2	
Csg. 5 1/2 14#	Depth 4408	Street	
Tbg. Size	Depth	City	State
Tool D.V. Tool #42	Depth 2580	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 22	Shoe Joint 22	Cement Amount Ordered 165 com 10# Gilsonite 5# Kolseal 500 gal mud flush	
Meas Line	Displace 108 BL		

EQUIPMENT

Pumptrk 9	No.	Cementer	
		Helper Cody	
Bulktrk 1	No.	Driver	
		Driver Doug	
Bulktrk 12	No.	Driver	
		Driver Heath	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

5 1/2 set @ 4408. Bottom @ 4386. Ran 73+ Circulation Pump 500 gal mud Clear 10 BL Spacer Cement Bottom with 165 SK Class A Displace Plug. Displace 45 BL water 54 BL mud 8 BL water to land Plug. Plug landed @ 1500# Held Release Pressure D/V.

Open Tool with 1000# Circulate 1 1/2 HR Then Cement Top Stage

X
Signature

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	5 1/2
Centralizer	10 Turbo's
Baskets	7
AFU Inserts	D.V. Tool
Float Shoe	1
Latch Down	1
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 8949

Cell 785-324-1041

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 1-22-13	36	15	28	Gove	KS		8:45 AM

Location Quinter 4W 6N 8W 1/2 N

Lease Bentley Well No. 36-2

Owner

Contractor H2 #2

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Ty Stage

Hole Size 7 7/8 T.D. 4415

Charge To H.C

Csg. 5 1/2 Depth 4408

Street

Tbg. Size Depth

City State

Tool D.V. Tool Depth 2580

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint

Cement Amount Ordered 425 Class A 1/4# F-Lo

Meas Line Displace 63 BBL

EQUIPMENT

Pumptrk 9 No. Cementer Greg
Helper

Bulktrk No. Driver Cody
Driver

Bulktrk 12 No. Driver
Driver Dan Heath

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30SK

Mouse Hole 15SK

Centralizers

Baskets

D/V or Port Collar

Plug Rat hole, mix 30sk

Cement 1st Stage with 380SK

Displace Plug Displaced @ 1800#

Bump Plug Pressure Dry

Cement Circulated

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature