

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

6/3/12

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 8914
Name: H & C Oil Operating, Inc.
Address 1: P.O. Box 86
Address 2:
City: Plainville State: KS Zip: 67663
Contact Person: Charles R. Ramsay
Phone: (785) 434-7434
CONTRACTOR: License # 33493
Name: American Eagle Drilling
Wellsite Geologist: Marc Downing
Purchaser: Coffeyville

API No. 15 - 065-23635-00-00

Spot Description:
W2_E2_NW_NE Sec. 13 Twp. 9 S. R. 25 East West
660 Feet from North / South Line of Section
1,880 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Graham

Lease Name: Dorothy Keith Well #: 13-1

Field Name: Wildcat

Producing Formation: Lansing Kansas City

Elevation: Ground: 2514 Kelly Bushing: _____

Total Depth: 4130 Plug Back Total Depth: 4108

Amount of Surface Pipe Set and Cemented at: 286 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2180 Feet

If Alternate II completion, cement circulated from: 2180

feet depth to: surface w/ 425 sx cmt.

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW

Plug Back: _____ Plug Back Total Depth

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

ENHR Permit #: _____

GSW Permit #: _____

4/9/2010 4/17/10 05/10/2010
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan *AKENS 6-15-10*
(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 #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: *Charles R. Ramsay*

Title: President Date: *6/3/10*

KCC Office Use ONLY

Letter of Confidentiality Received

Date: *6-3-10*

Confidential Release Date: *06-03-12*

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: *NJ*

Date: *6-14-10*

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Operator Name: H & C Oil Operating, Inc. Lease Name: Dorothy Keith Well #: 13-1
 Sec. 13 Twp. 9 S. R. 25 East West County: Graham

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Top Anhydrite	2212	+307
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Anhydrite	2246	+273
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3609	-1090
List All E. Logs Run:		Heebner	3821	-1302
Microresistivity log, dual induction log, dual compensated porosity log, borehole compensated sonic log, sonic cement bond log		Toronto	3846	-1327
		LKC	3863	-1344
		BKC	4088	-1569

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
surface	12 1/4"	8 5/8"	23#	286	60/40 posmix	180	3%c.c., 2% gel
production	7 7/8"	5 1/2"	14#	4129	common	180	10% salt, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2180-surface	60/40 lite	425	1/4# floseal per sack

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4 SPF	4061-4065'	<p>CONFIDENTIAL</p> <p>JUN 03 2010</p> <p>KCC</p> <p>RECEIVED JUN 08 2010 KCC WICHITA</p>	
CIBP			4040
4 SPF	3999-4003		

TUBING RECORD:	Size: <u>2 7/8"</u>	Set At: <u>4035'</u>	Packer At: <u>none</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR:	<u>5/17/2010</u>			
Producing Method:	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>90</u>	Gas Mcf <u>0</u>	Water Bbls.	Gas-Oil Ratio <u>40</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3999-4003</u>
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ALLIED CEMENTING CO., LLC. 036368

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>4/12/10</u>	SEC. <u>13</u>	TWP. <u>9</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30p</u>	JOB FINISH <u>7:00pm</u>
LEASE <u>Dorothy Keith</u>	WELL # <u>13-1</u>	LOCATION <u>Wakeney N to Red line</u>		COUNTY <u>Graham</u>	STATE <u>Ks.</u>		
OLD OR NEW (Circle one) <u>NEW</u>			<u>W to Stephen Rd, N to Red 151/16 S. 4</u>				

CONTRACTOR America Feig #3
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 41300
 CASING SIZE 5 1/2 DEPTH 4127'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DV Tool DEPTH 2182
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 20,39
 CEMENT LEFT IN CSG. 20,39
 PERFS.
 DISPLACEMENT 100.21 661

OWNER Dollar Stage 4100p
 CEMENT 4:30p-
 AMOUNT ORDERED ~~_____~~
Dollar 180 Cor 102 Salt 28 Gal
Top 425 Lite 1/4 # Fl
500 Gal WFR-2
 COMMON 180 @ 13.50 2430.00
 POZMIX @ _____
 GEL 3 @ 20.25 60.75
 CHLORIDE @ _____
 ASC @ _____
Salt 5 @ 21.25 106.25
425 Lite @ 11.85 5036.25
Fl Seal 106 @ 2.45 259.70
WFR-2 500 @ 1.10 550.00
 @ _____
 @ _____
 @ _____
 HANDLING 300 @ 2.25 675.00
 MILEAGE 110/56/mile 1350.00

EQUIPMENT
 PUMP TRUCK CEMENTER Shane
 # 417 HELPER Matt
 BULK TRUCK
 # 377 DRIVER Daren
 BULK TRUCK
 # 344 DRIVER Bobby

REMARKS:

Insert @ 4106.61, Est Circulation
Mix 500 Gal WFR-2 Mixed 180 stks
Shut down washed pump & lines
Displaced 100.21 661, Load of plug
@ 1500 psi. Float Held.
Opened DV Tool @ 1500 psi.
Mixed 425 stks to Circulate
Ret Hole 30 stks Closed DV @ 1500 psi
Cement Circulated

TOTAL ~~_____~~
10,467.95
 SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE _____ 1957.00
 EXTRA FOOTAGE @ _____
 MILEAGE 45 @ 7.00 315.00
 MANIFOLD @ _____
 @ _____
 @ _____
 TOTAL 2272.00

CHARGE TO: H+C
 STREET _____
 CITY _____ STATE _____ ZIP _____

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 JUN 03 2012

KCC

Thanks!

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT
 DV Tool @ _____ 2832.00
 8-Cents @ 35.00 280.00
 3-Berkeley @ 161.00 483.00
 Float Shoe @ _____ 192.00
 Catch down @ _____ N-C
 TOTAL 3787.00

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PRINTED NAME _____
 SIGNATURE Charles R Ramsey

SALES TAX (If Any) _____
 TOTAL CHARGES ~~_____~~
 DISCOUNT ~~_____~~ IF PAID IN 30 DAYS

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Bradford Parker PASTER Shane Cemerter

ALLIED CEMENTING CO., LLC. 039229

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Oakleys

4-9-10 DATE	SEC. 13	TWP. 9S	RANGE 25W	CALLED OUT	ON LOCATION 3:00pm	JOB START 5:00	JOB FINISH 5:30pm
Dorothy LEASE Kitch				WELL# 13-1		LOCATION Home S-Padline E to	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				ST Padline 1 1/2 c S-E			
COUNTY Graham				STATE KS			

CONTRACTOR American Eagle #13
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 291'
 CASING SIZE 2 5/8 DEPTH 291'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 17.5

OWNER
 CEMENT
 AMOUNT ORDERED 180 60140390cc
290gal
 COMMON 108 SKS @ 13 50 1458 00
 POZMIX 72 SKS @ 7 50 543 00
 GEL 3 SKS @ 20 25 60 25
 CHLORIDE 6 SKS @ 51 20 309 20
 ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER Fuzzy
 # 431 HELPER Kelly
 BULK TRUCK
 # 377 DRIVER Walter
 BULK TRUCK
 # DRIVER

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 HANDLING 95 SKS @ 2 25 213 75
 MILEAGE 10¢ PER SK/ mile 300 00
 TOTAL 2885 00

REMARKS:
cement did circulate
Job complete @ 5:30pm
Thanks Fuzzy crew

SERVICE
 DEPTH OF JOB 291'
 PUMP TRUCK CHARGE 991 00
 EXTRA FOOTAGE @
 MILEAGE 45 @ 7 00 315 00
 MANIFOLD @
 TOTAL 1306 00

CHARGE TO: HCC Oil
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 TOTAL

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To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME
 SIGNATURE Brendan Parker

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JUN 03 2012

KCC



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**
 PO Box 86
 Plainville KS 67663

ATTN: Marc D.

13 9S 25W Graham KS

Dorothy keith #1-13

Start Date: 2010.04.14 @ 11:45:35

End Date: 2010.04.14 @ 19:54:05

Job Ticket #: 38535 DST #: 1

Trilobite Testing, Inc
 PO Box 1733 Hays, KS 67601
 ph: 785-625-4778 fax: 785-625-5620

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H&C Oil Operating, Inc.

Dorothy Keith #1-13

13 9S 25W Graham KS

DST # 1

LKC "C,D"

2010.04.14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

ATTN: Marc D.

Job Ticket: 38535 DST#: 1

Test Start: 2010.04.14 @ 11:45:35

GENERAL INFORMATION:

Formation: LKC "C,D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:05

Time Test Ended: 19:54:05

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3876.00 ft (KB) To 3914.00 ft (KB) (TVD)

Reference Elevations: 2519.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2514.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 222.75 psig @ 3880.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.14

End Date:

2010.04.14

Last Calib.: 2010.04.14

Start Time: 11:45:40

End Time:

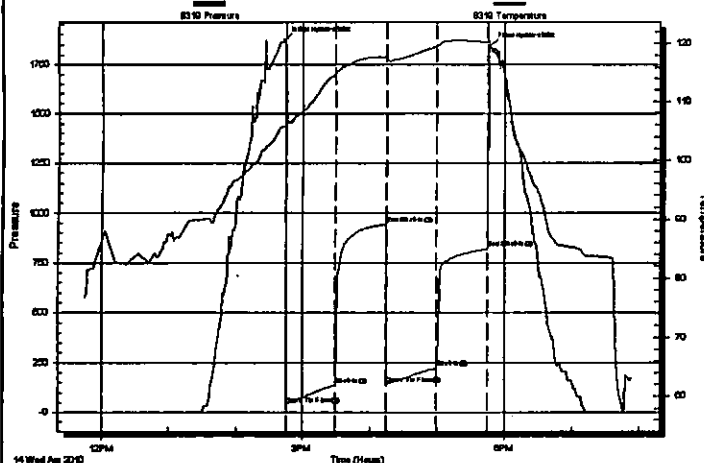
19:54:04

Time On Btm: 2010.04.14 @ 14:43:05

Time Off Btm: 2010.04.14 @ 17:46:34

TEST COMMENT: IF-BOB in 16min
ISI-1in blow
FF-BOB in 24min
FSI-1/2in blow

Pressure vs. Time



PRESSURE SUMMARY

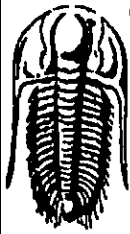
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.91	105.68	Initial Hydro-static
2	40.07	106.11	Open To Flow (1)
46	136.99	114.73	Shut-In(1)
91	943.60	117.73	End Shut-In(1)
92	141.44	117.43	Open To Flow (2)
136	222.75	119.54	Shut-In(2)
182	820.23	120.21	End Shut-In(2)
184	1842.04	119.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	GO 20%G 80%O	1.47
60.00	MCO 20%G 50%O 30%M	0.84
120.00	OCM 25%O 75%M	1.68
180.00	SMCW 90%W 10%M	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38535

DST#: 1

ATTN: Marc D.

Test Start: 2010.04.14 @ 11:45:35

Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3876.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			3857.00	
Shut In Tool	5.00			3862.00	
Hydraulic tool	5.00			3867.00	
Packer	4.00			3871.00	20.00 Bottom Of Top Packer
Packer	5.00			3876.00	
Stubb	1.00			3877.00	
Perforations	2.00			3879.00	
Change Over Sub	1.00			3880.00	
Recorder	0.00	8319	inside	3880.00	
Recorder	0.00	8369	inside	3880.00	
Blank Spacing	30.00			3910.00	
Change Over Sub	1.00			3911.00	
Bullnose	3.00			3914.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Dorothy kelth #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38535 DST#: 1

ATTN: Marc D.

Test Start: 2010.04.14 @ 11:45:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: . ft

Water Safinity: 98000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	GO 20%G 80%O	1.473
60.00	MCO 20%G 50%O 30%M	0.842
120.00	OCM 25%O 75%M	1.683
180.00	SMCW 90%W 10%M	2.525

Total Length: 465.00 ft

Total Volume: 6.523 bbl

Num Fluid Samples: 0

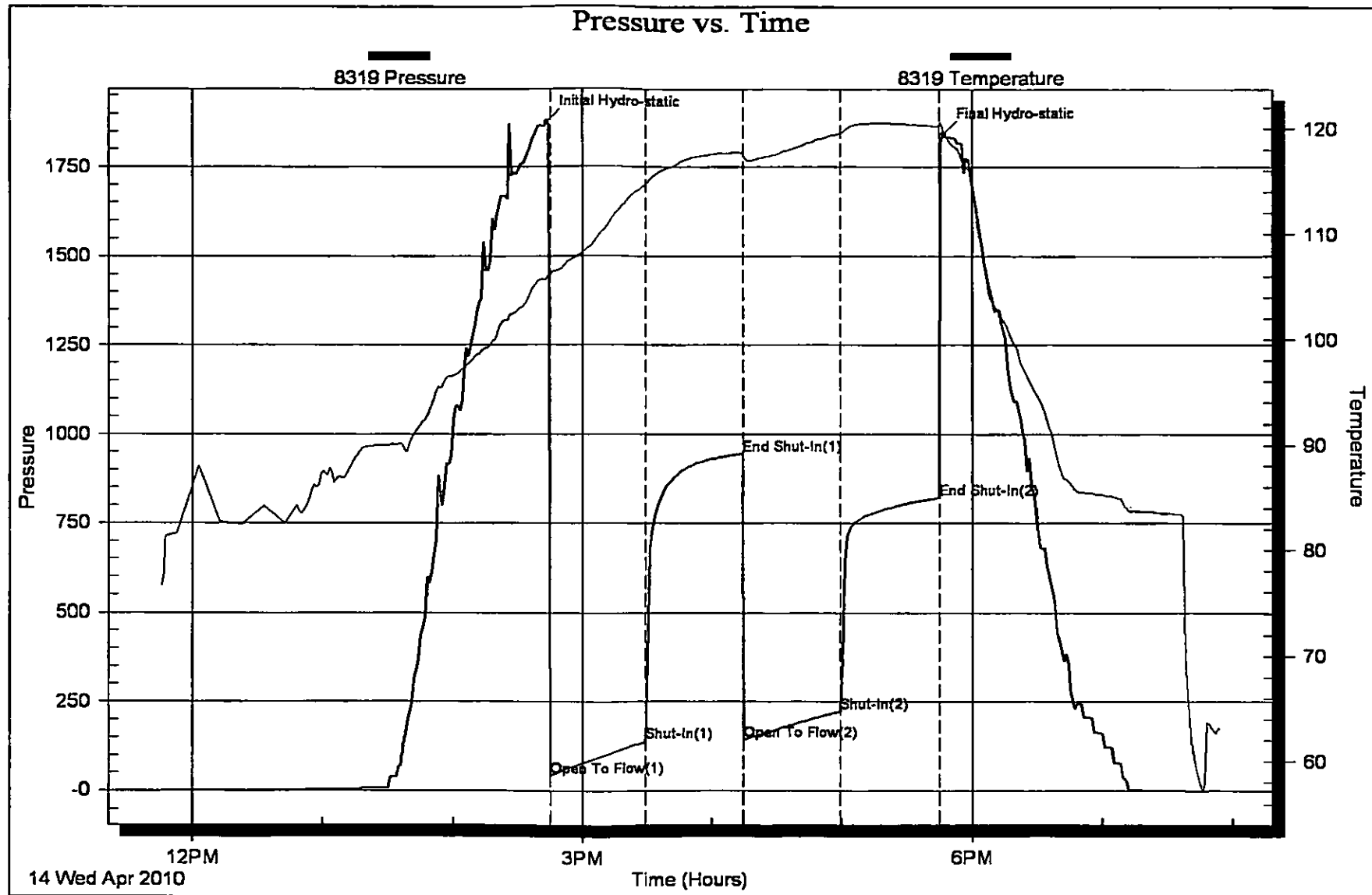
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



12PM
14 Wed Apr 2010

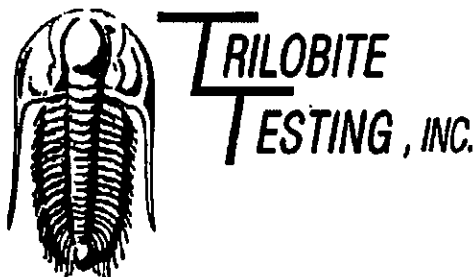
3PM
Time (Hours)

6PM

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DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc D.

13 9S 25W Graham KS

Dorothy keith #1-13

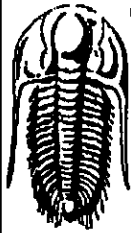
Start Date: 2010.04.15 @ 15:18:34

End Date: 2010.04.16 @ 00:43:34

Job Ticket #: 38536 DST #: 2

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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38536 DST#: 2

ATTN: Marc D.

Test Start: 2010.04.15 @ 15:18:34

GENERAL INFORMATION:

Formation: **H,I,J**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 18:16:34
 Time Test Ended: 00:43:34

Test Type: **Conventional Bottom Hole**
 Tester: **Brett Dickinson**
 Unit No: **47**

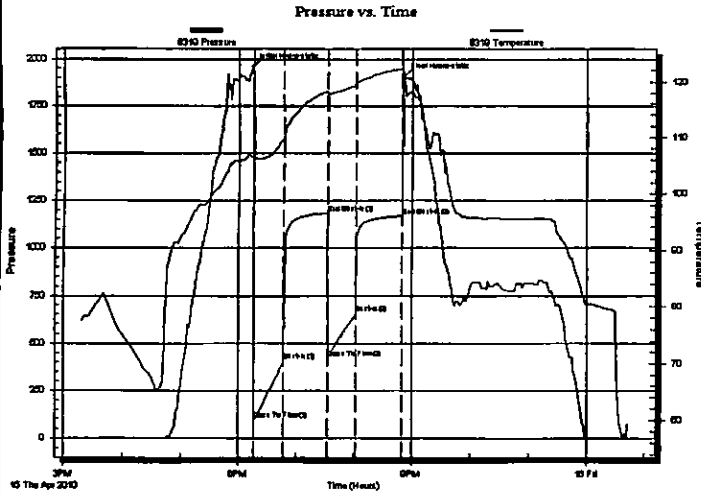
Interval: **3973.00 ft (KB) To 4044.00 ft (KB) (TVD)**
 Total Depth: **4044.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2519.00 ft (KB)**
 2514.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8319 **Inside**
 Press@RunDepth: **654.59 psig @ 3980.00 ft (KB)**
 Start Date: **2010.04.15** End Date: **2010.04.16**
 Start Time: **15:18:39** End Time: **00:43:34**

Capacity: **8000.00 psig**
 Last Calib.: **2010.04.16**
 Time On Btm: **2010.04.15 @ 18:14:34**
 Time Off Btm: **2010.04.15 @ 20:51:03**

TEST COMMENT: IF-BOB in 1min
 IS-BOB in 7min
 FF-BOB in 1.5min
 FS-BOB in 9min GTS 15min



PRESSURE SUMMARY

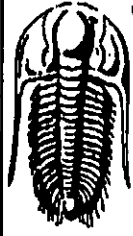
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.05	106.58	Initial Hydro-static
2	97.28	106.26	Open To Flow (1)
33	406.05	110.02	Shut-In(1)
78	1184.31	118.29	End Shut-In(1)
78	422.19	118.03	Open To Flow (2)
108	654.59	119.51	Shut-In(2)
155	1169.06	122.22	End Shut-In(2)
157	1906.48	122.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 30%O 70%M	0.84
1730.00	GO 30%G 70%O	24.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38536

DST#: 2

ATTN: Marc D.

Test Start: 2010.04.15 @ 15:18:34

Tool Information

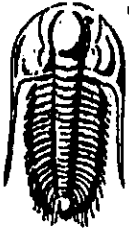
Drill Pipe:	Length: 3970.00 ft	Diameter: 3.80 inches	Volume: 55.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 55.69 bbl	Tool Chased: ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3973.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	91.00 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			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Packer	4.00			3968.00	20.00 Bottom Of Top Packer
Packer	5.00			3973.00	
Stubb	1.00			3974.00	
Perforations	5.00			3979.00	
Change Over Sub	1.00			3980.00	
Recorder	0.00	8319	Inside	3980.00	
Recorder	0.00	8369	Inside	3980.00	
Blank Spacing	60.00			4040.00	
Change Over Sub	1.00			4041.00	
Bullnose	3.00			4044.00	71.00 Bottom Packers & Anchor

Total Tool Length: 91.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38536 DST#: 2

ATTN: Marc D.

Test Start: 2010.04.15 @ 15:18:34

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

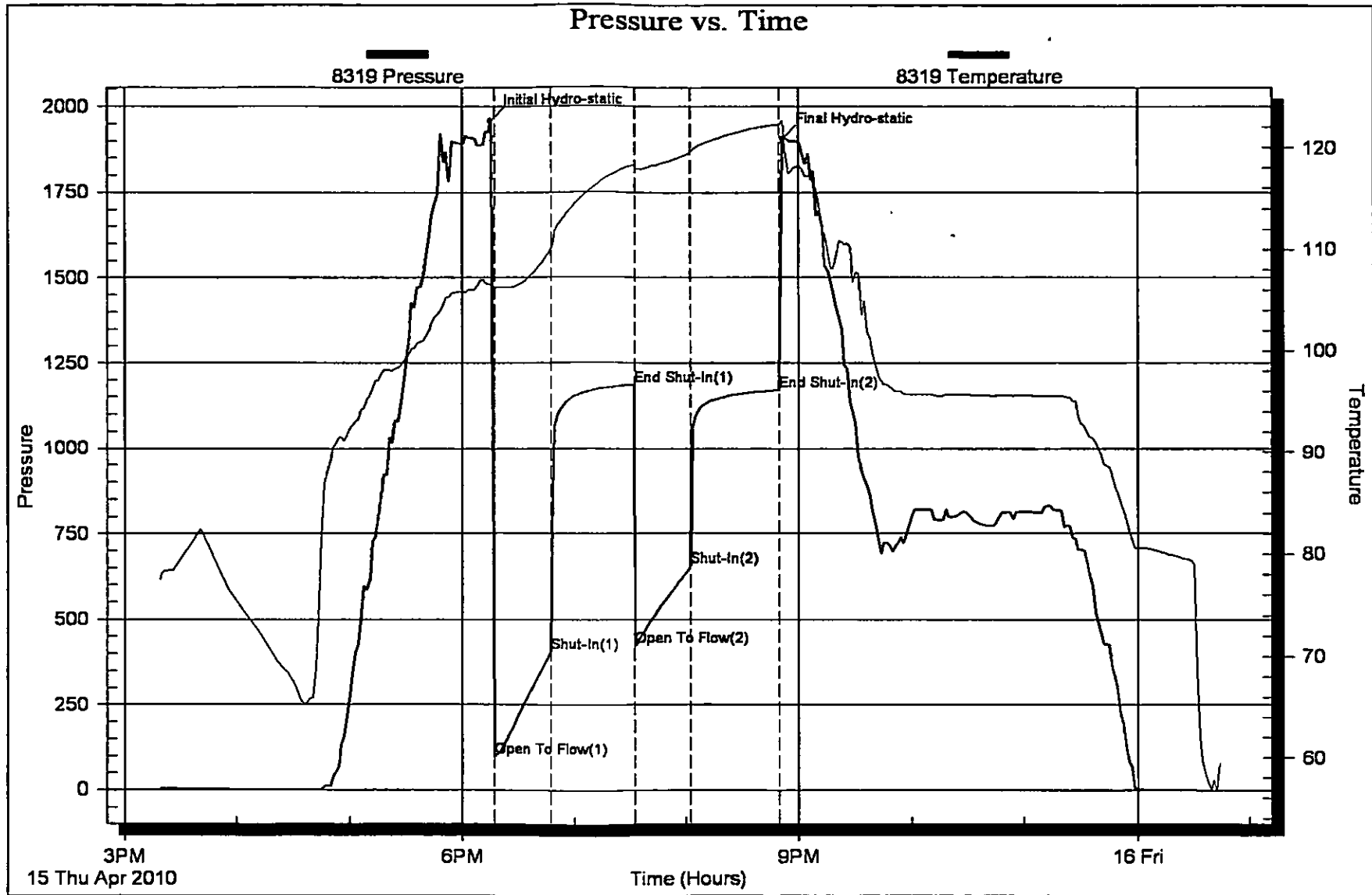
Length ft	Description	Volume bbl
60.00	OCM 30%O 70%M	0.842
1730.00	GO 30%G 70%O	24.267

Total Length: 1790.00 ft Total Volume: 25.109 bbl

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

Laboratory Name: Laboratory Location:

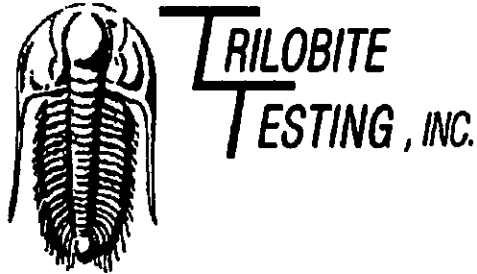
Recovery Comments:



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DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc D.

13 9S 25W Graham KS

Dorothy Keith #1-13

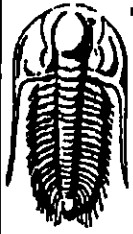
Start Date: 2010.04.16 @ 08:45:33

End Date: 2010.04.16 @ 14:15:03

Job Ticket #: 38537 DST #: 3

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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

Job Ticket: 38537

DST#: 3

ATTN: Marc D.

Test Start: 2010.04.16 @ 08:45:33

GENERAL INFORMATION:

Formation: LKC "K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:44:03

Time Test Ended: 14:15:03

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 4042.00 ft (KB) To 4066.00 ft (KB) (TVD)

Reference Elevations: 2519.00 ft (KB)

Total Depth: 4066.00 ft (KB) (TVD)

2514.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 13.12 psig @ 4063.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.16

End Date: 2010.04.16

Last Calib.: 2010.04.16

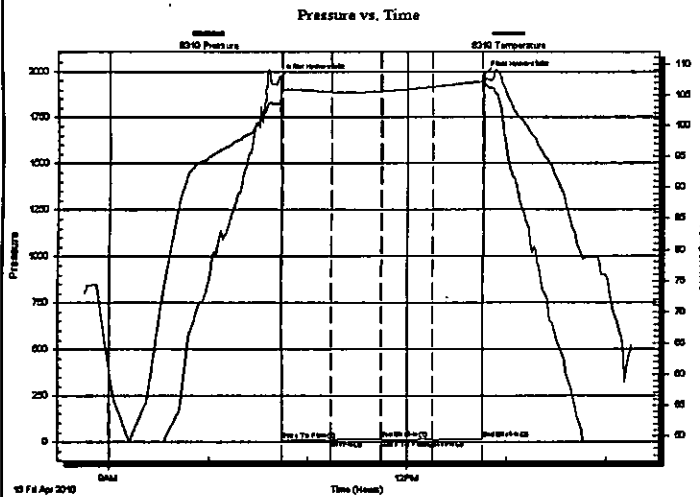
Start Time: 08:45:38

End Time: 14:15:02

Time On Btm: 2010.04.16 @ 10:42:33

Time Off Btm: 2010.04.16 @ 12:46:03

TEST COMMENT: IF-3/4in blow
ISI-No blow
FF-Weak surface blow
FSI- No blow



PRESSURE SUMMARY

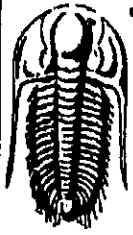
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.99	103.49	Initial Hydro-static
2	12.19	105.76	Open To Flow (1)
32	13.51	105.50	Shut-In(1)
62	17.06	105.64	End Shut-In(1)
62	13.49	105.65	Open To Flow (2)
93	13.12	106.37	Shut-In(2)
123	15.59	107.24	End Shut-In(2)
124	1979.02	107.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	VSOCM 2%O 98%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Dorothy Keith #1-13

PO Box 86
Plainville KS 67663

13 9S 25W Graham KS

ATTN: Marc D.

Job Ticket: 38537

DST#: 3

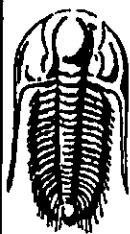
Test Start: 2010.04.16 @ 08:45:33

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 56.53 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	4042.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			4023.00	
Shut In Tool	5.00			4028.00	
Hydraulic tool	5.00			4033.00	
Packer	4.00			4037.00	20.00 Bottom Of Top Packer
Packer	5.00			4042.00	
Stubb	1.00			4043.00	
Perforations	20.00			4063.00	
Recorder	0.00	8319	Inside	4063.00	
Recorder	0.00	8369	Inside	4063.00	
Bullnose	3.00			4066.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				

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Job Ticket: 38537 DST#: 3

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil APT:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	VSOCM 2%O 98%M	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

