



KANSAS CORPORATION COMMISSION 1096236
OIL & GAS CONSERVATION DIVISION

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 # 33950
Name: Deutscher, Sid dba Deutscher Oil Operations
Address 1: 2334 130TH AVE
Address 2: _____
City: ELLIS State: KS Zip: 67637 + 9275
Contact Person: Sid Deutscher
Phone: (785) 650-3697
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Richard Bell
Purchaser: _____

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 #: _____

<u>02/29/2012</u>	<u>03/05/2012</u>	<u>03/05/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26275-00-00
Spot Description: _____
SE SE NW SW Sec. 27 Twp. 12 S. R. 20 East West
1535 Feet from North / South Line of Section
1125 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: PHS Well #: 1-27
Field Name: unknown
Producing Formation: none
Elevation: Ground: 2174 Kelly Bushing: 2179
Total Depth: 3950 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 219 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: 8200 ppm Fluid volume: 1200 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 11/07/2012



1096236

Operator Name: Deutscher, Sid dba Deutscher Oil Operations Lease Name: PHS Well #: 1-27
 Sec. 27 Twp. 12 S. R. 20 East West County: Ellis

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: dual induction compensated neutron density	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum see attached
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CASING RECORD <input checked="" 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	12.2500	8.62500	23	219	common	170	3%cc & 2% gel

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	-			

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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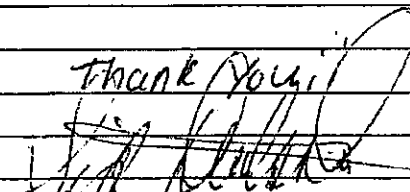
QUALITY WELL SERVICE, INC.

5454

Home Office 324 Simpson St., Pratt, KS 67124

Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	3-5-12	Sec.	27	Twp.	12	Range	20	County	Ellis	State	KS	On Location		Finish	8:00 pm
Lease	PHS		Well No.	1-27		Location Ellis, KS 2N 1E 1N Einto									
Contractor	LW Drilling					Owner									
Type Job	Rotary Plug Rotary Plug					To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	T.D. 3950					Charge To Deutscher Oil									
Csg.	Depth					Street 2334 130th Ave									
Tbg. Size	Depth					City Ellis Ellis State KS 67631									
Tool	Depth					City Ellis Ellis State KS 67631									
Cement Left in Csg.	Shoe Joint					The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line	Displace					Cement Amount Ordered 230 60/40 40% 1/4" # F10									
EQUIPMENT															
Pumptrk	No.	8	David		Common										
Bulktrk	No.	9	Mike		Poz. Mix										
Bulktrk	No.				Gel.										
Pickup	No.				Calcium										
JOB SERVICES & REMARKS															
Rat Hole						Hulls									
Mouse Hole						Salt									
Centralizers						Flowseal									
Baskets						Kol-Seal									
D/V or Port Collar						Mud CLR 48									
1st Plug @ 3872 - 25 SX						CFL-117 or CD110 CAF 38									
2nd Plug @ 1570 - 25 SX						Sand									
3rd Plug @ 825 - 100 SX						Handling									
4th Plug @ 270 - 40 SX						Mileage									
5th Plug @ 40 - 10 SX and wood plug						FLOAT EQUIPMENT									
						Guide Shoe									
						Centralizer									
						Baskets									
						AFU Inserts									
						Float Shoe									
						Latch Down									
						RECEIVED									
						NOV 05 2012									
						KCC WICHITA									
						Pumptrk Charge									
						Mileage									
						Tax									
						Discount									
						Total Charge									
X Signature	<p style="text-align: center;">Thank You!</p> 														

QUALITY WELL SERVICE, INC.

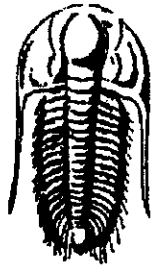
5504

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	2-28-12	Sec.	30	Twp.	9	Range	25	County	ELLIS	State	KS	On Location		Finish	11:15pm
Lease	B4 Worth	Well No.	3	Location ELLIS 1 1/2 N 1 E 1/4 N 1/2 to											
Contractor	w/w Drilling					Owner									
Type Job	Surface					To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4	T.D.	220		Charge To Deutscher Oil Operations										
Csg.	8 5/8	Depth	220.45		Street 2334 130th Ave										
Tbg. Size		Depth			City ELLIS State KS										
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	15ft	Shoe Joint			Cement Amount Ordered 170 sq cum 3% GCC 2% gel										
Meas Line		Displace	13.08												
EQUIPMENT															
Pumptrk	No.	5	WISIT		Common										
Bulktrk	No.	4	WISIT		Poz. Mix										
Bulktrk	No.				Gel.										
Pickup	No.				Calcium										
JOB SERVICES & REMARKS															
Rat Hole						Hulls									
Mouse Hole						Salt									
Centralizers						Flowseal									
Baskets						Kol-Seal									
D/V or Port Collar						Mud CLR 48									
200 lbs of 8 5/8 casing - 17' - 17'					CFL-117 or CD110 CAF 38										
in circulation with mud pump					Sand										
					Handling										
					Mileage										
FLOAT EQUIPMENT															
170 sq cum disp with 13.08 gal H ₂ O					Guide Shoe										
					Centralizer										
					Baskets										
					AFU Inserts										
					Float Shoe										
Cement Oil Complete					Latch Down										
RECEIVED															
NOV 05 2012															
KCC WICHITA															
					Pumptrk Charge										
					Mileage										
Thank You!!					Tax										
					Discount										
					Total Charge										
X Signature															



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.03 @ 10:21:06

End Date: 2012.03.03 @ 15:50:36

Job Ticket #: 44802 DST #: 1

RECEIVED

NOV 05 2012

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL

Printed: 2012.03.08 @ 10:31:33

Deutscher Oil Operations

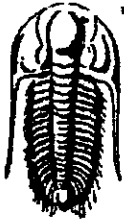
27-12s-20w Ellis,KS

PHS #1-27

DST # 1

LKC-DF

2012.03.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Deutscher Oil Operations
2334 130 th Ave
Ellis KS 67637
ATTN: Sid Deutscher

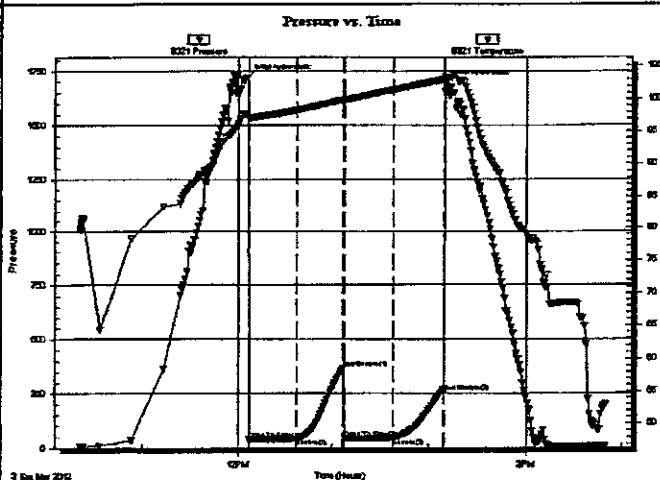
27-12s-20w Ellis, KS
PHS #1-27
Job Ticket: 44802 DST#: 1
Test Start: 2012.03.03 @ 10:21:06

GENERAL INFORMATION:

Formation: LKC-D-F
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:07:06
Time Test Ended: 15:50:36
Interval: 3537.00 ft (KB) To 3590.00 ft (KB) (TVD)
Total Depth: 3590.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 2179.00 ft (KB)
2174.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
Press@RunDepth: 43.51 psig @ 3544.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.03
Start Time: 10:21:07 End Time: 15:49:36 Time On Btm: 2012.03.03 @ 12:06:36
Time Off Btm: 2012.03.03 @ 14:10:06

TEST COMMENT: IFP-Weak surface blow built to 1/4 in
IS-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.39	97.43	Initial Hydro-static
1	37.59	97.10	Open To Flow (1)
31	40.05	98.24	Shut-In(1)
60	366.03	99.82	End Shut-In(1)
61	41.69	99.80	Open To Flow (2)
91	43.51	101.36	Shut-In(2)
123	257.54	102.92	End Shut-In(2)
124	1695.00	103.12	Final Hydro-static

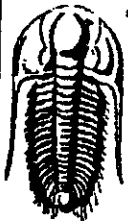
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil	0.02

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

27-12s-20w Ellis,KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44802

DST#: 1

ATTN: Sid Deutscher

Test Start: 2012.03.03 @ 10:21:06

Tool Information

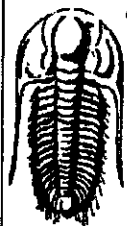
Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3537.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 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			3518.00	
Shut In Tool	5.00			3523.00	
Hydraulic tool	5.00			3528.00	
Packer	4.00			3532.00	20.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	5.00			3543.00	
Change Over Sub	1.00			3544.00	
Recorder	0.00	8321	Inside	3544.00	
Recorder	0.00	8737	Outside	3544.00	
Change Over Sub	1.00			3545.00	
Drill Pipe	32.00			3577.00	
Perforations	10.00			3587.00	
Bullnose	3.00			3590.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44802

DST#: 1

ATTN: Sid Deutscher

Test Start: 2012.03.03 @ 10:21:06

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: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud with a scum of oil	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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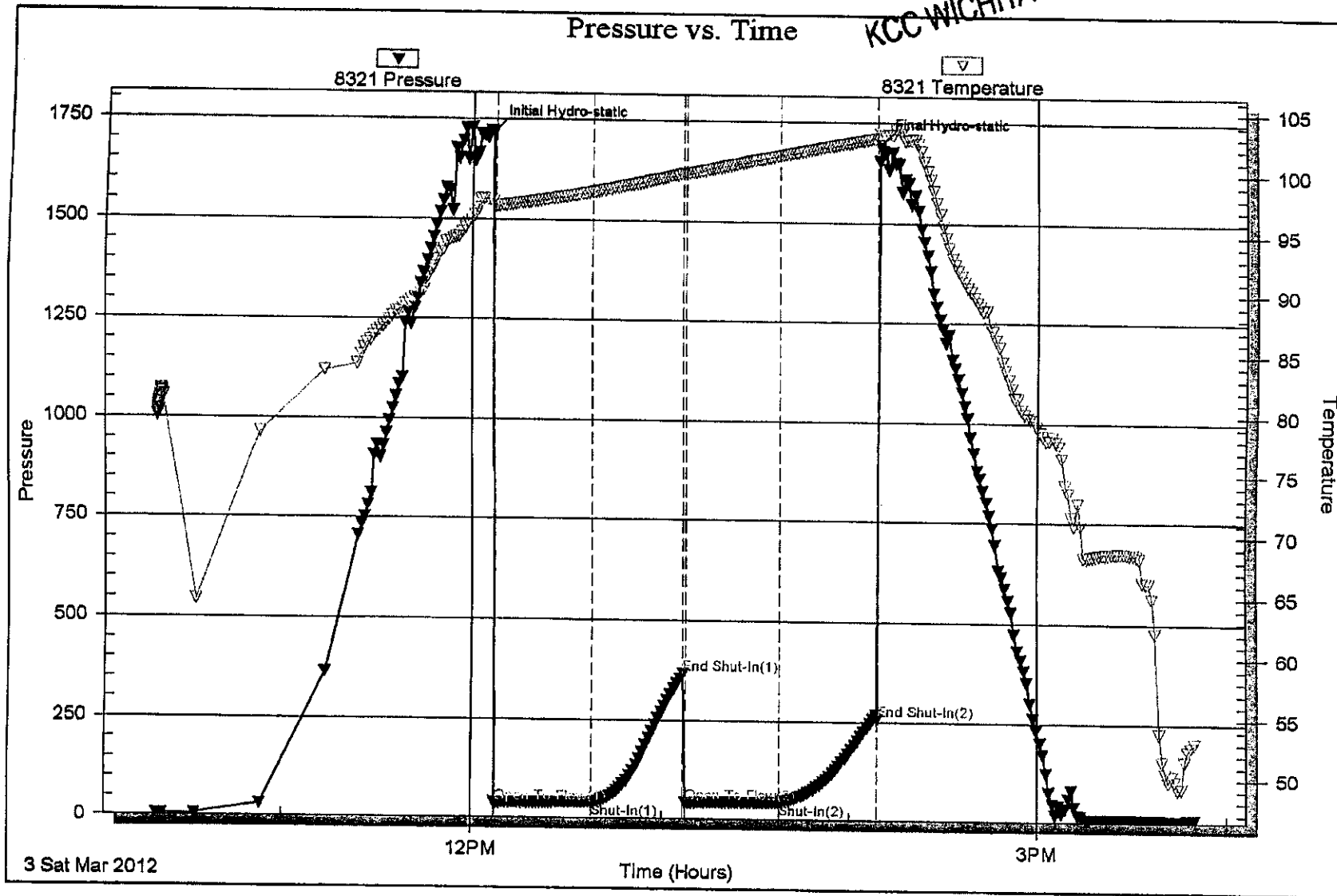
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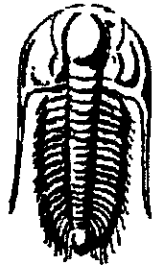
Inside Deutscher Oil Operations

FHS #1-27

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DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.04 @ 02:32:32

End Date: 2012.03.04 @ 07:48:02

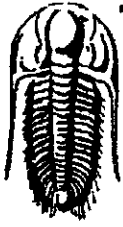
Job Ticket #: 44804 DST #: 2

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

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Printed: 2012.03.08 @ 10:31:48

Deutscher Oil Operations
27-12s-20w Ellis,KS
PHS #1-27
DST # 2
LKC-H-J
2012.03.04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Deutscher Oil Operations
 2334 130 th Ave
 Ellis KS 67637
 ATTN: Sid Deutscher

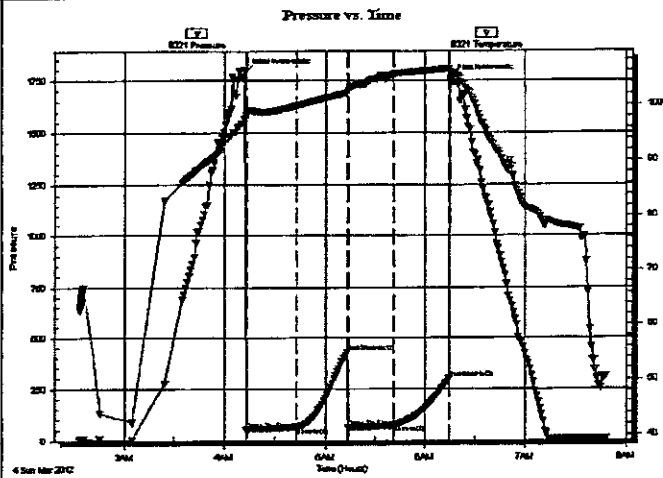
27-12s-20w Ellis,KS
 PHS #1-27
 Job Ticket: 44804 DST#: 2
 Test Start: 2012.03.04 @ 02:32:32

GENERAL INFORMATION:

Formation: LKC-H-J
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:13:02 Tester: Jeff Brown
 Time Test Ended: 07:48:02 Unit No: 44
 Interval: 3614.00 ft (KB) To 3695.00 ft (KB) (TVD) Reference Elevations: 2179.00 ft (KB)
 Total Depth: 3695.00 ft (KB) (TVD) 2174.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GRVCF: 5.00 ft

Serial #: 8321 Inside
 Press@RunDepth: 73.11 psig @ 3618.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.04 End Date: 2012.03.04 Last Calib.: 2012.03.04
 Start Time: 02:32:33 End Time: 07:48:02 Time On Btm: 2012.03.04 @ 04:12:32
 Time Off Btm: 2012.03.04 @ 06:15:32

TEST COMMENT: IFP-Weak blow built to 1 1/2 in
 ISI-Dead no blow back
 FFP-Dead no blow
 FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.51	97.55	Initial Hydro-static
1	53.55	98.22	Open To Flow (1)
31	61.45	99.85	Shut-In(1)
61	426.42	102.13	End Shut-In(1)
61	61.82	102.67	Open To Flow (2)
89	73.11	105.45	Shut-In(2)
122	295.53	106.39	End Shut-In(2)
123	1760.49	105.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud with a scum of oil	0.10

* Recovery from multiple tests

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 2

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 02:32:32

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume: 49.54 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3614.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	81.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3595.00	
Shut In Tool	5.00			3600.00	
Hydraulic tool	5.00			3605.00	
Packer	4.00			3609.00	20.00 Bottom Of Top Packer
Packer	5.00			3614.00	
Stubb	1.00			3615.00	
Perforations	2.00			3617.00	
Change Over Sub	1.00			3618.00	
Recorder	0.00	8321	Inside	3618.00	
Recorder	0.00	8737	Outside	3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	63.00			3682.00	
Perforations	10.00			3692.00	
Bullnose	3.00			3695.00	81.00 Bottom Packers & Anchor

Total Tool Length: 101.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis,KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 2

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 02:32:32

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:	69.00 sec/qt	Cushion Volume:	bbf		
Water Loss:	6.39 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud with a scum of oil	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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NOV 05 2012
KCC WICHITA

Serial #: 8321

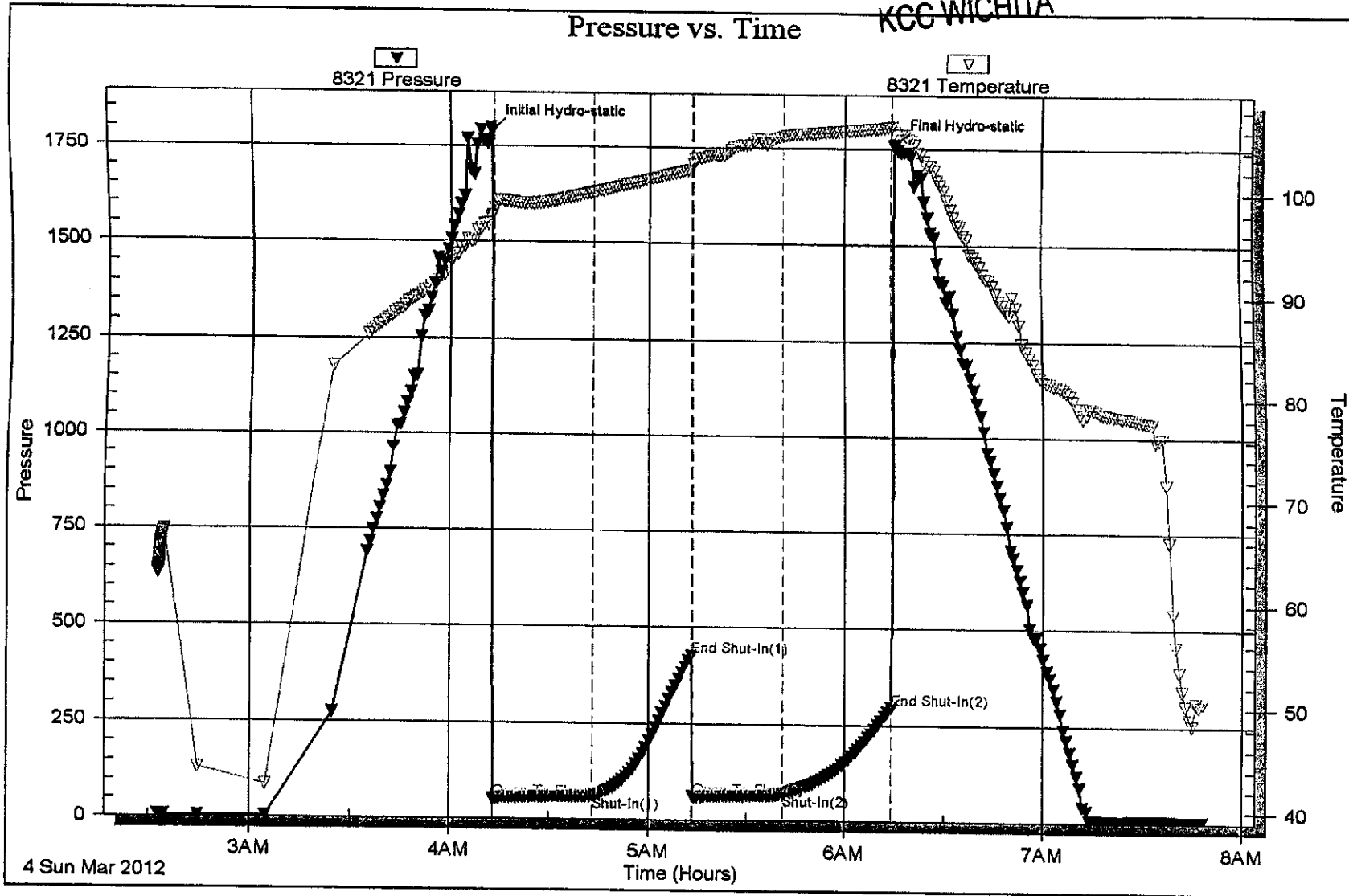
Inside Deutscher Oil Operations

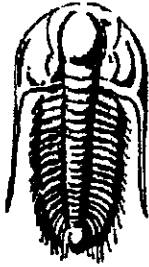
PHS #1-27

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DST Test Number: 2

KCC WICHITA





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Deutscher Oil Operations**

2334 130 th Ave
Ellis KS 67637

ATTN: Sid Deutscher

PHS #1-27

27-12s-20w Ellis,KS

Start Date: 2012.03.04 @ 18:27:33

End Date: 2012.03.04 @ 23:36:33

Job Ticket #: 44804 DST #: 3

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KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 10:32:03

Deutscher Oil Operations

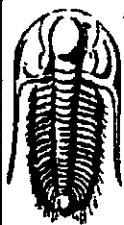
27-12s-20w Ellis,KS

PHS #1-27

DST # 3

Marrn

2012.03.04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Deutscher Oil Operations

27-12s-20w Ellis, KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 3

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 18:27:33

GENERAL INFORMATION:

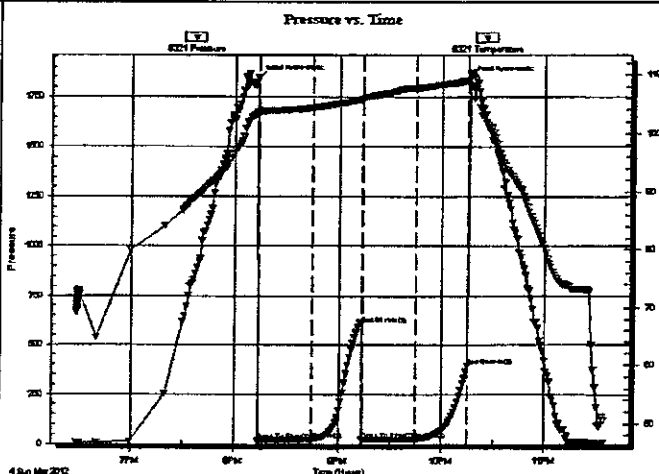
Formation: **Marm**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 20:13:33
 Time Test Ended: 23:36:33
 Interval: **3704.00 ft (KB) To 3810.00 ft (KB) (TVD)**
 Total Depth: **3810.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Jeff Brown**
 Unit No: **44**
 Reference Elevations: **2179.00 ft (KB)**
2174.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: **8321**

Inside

Press@RunDepth: **22.25 psig @ 3797.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.03.04** End Date: **2012.03.04** Last Calib.: **2012.03.04**
 Start Time: **18:27:34** End Time: **23:35:33** Time On Btm: **2012.03.04 @ 20:13:03**
 Time Off Btm: **2012.03.04 @ 22:16:03**

TEST COMMENT: IFP-Weak blow built to 1/4 in died back to 1/8 in
 ISI-Dead no blow back
 FFP-Dead no blow
 FSI-Dead no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.91	103.69	Initial Hydro-static
1	17.15	103.46	Open To Flow (1)
32	20.16	104.38	Shut-In(1)
60	604.40	105.75	End Shut-In(1)
61	21.15	105.79	Open To Flow (2)
92	22.25	107.74	Shut-In(2)
122	390.69	109.00	End Shut-In(2)
123	1837.27	110.13	Final Hydro-static

Recovery

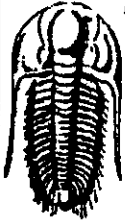
Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2 %O98%M	0.02

* Recovery from multiple tests

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Deutscher Oil Operations

27-12s-20w Ellis,KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

Job Ticket: 44804

DST#: 3

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 18:27:33

Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 58000.00 lb
		Total Volume: 52.20 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3794.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

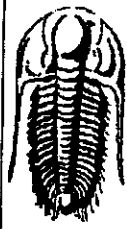
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3775.00	
Shut In Tool	5.00			3780.00	
Hydraulic tool	5.00			3785.00	
Packer	4.00			3789.00	20.00 Bottom Of Top Packer
Packer	5.00			3794.00	
Stubb	1.00			3795.00	
Perforations	2.00			3797.00	
Recorder	0.00	8321	Inside	3797.00	
Recorder	0.00	8737	Outside	3797.00	
Perforations	10.00			3807.00	
Bullnose	3.00			3810.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Deutscher Oil Operations

27-12s-20w Ellis,KS

2334 130 th Ave
Ellis KS 67637

PHS #1-27

ATTN: Sid Deutscher

Job Ticket: 44804

DST#: 3

Test Start: 2012.03.04 @ 18:27:33

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 7.59 in³
Resistivity: ohm.m
Salinity: 98000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM2 %O98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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KCC WICHITA**

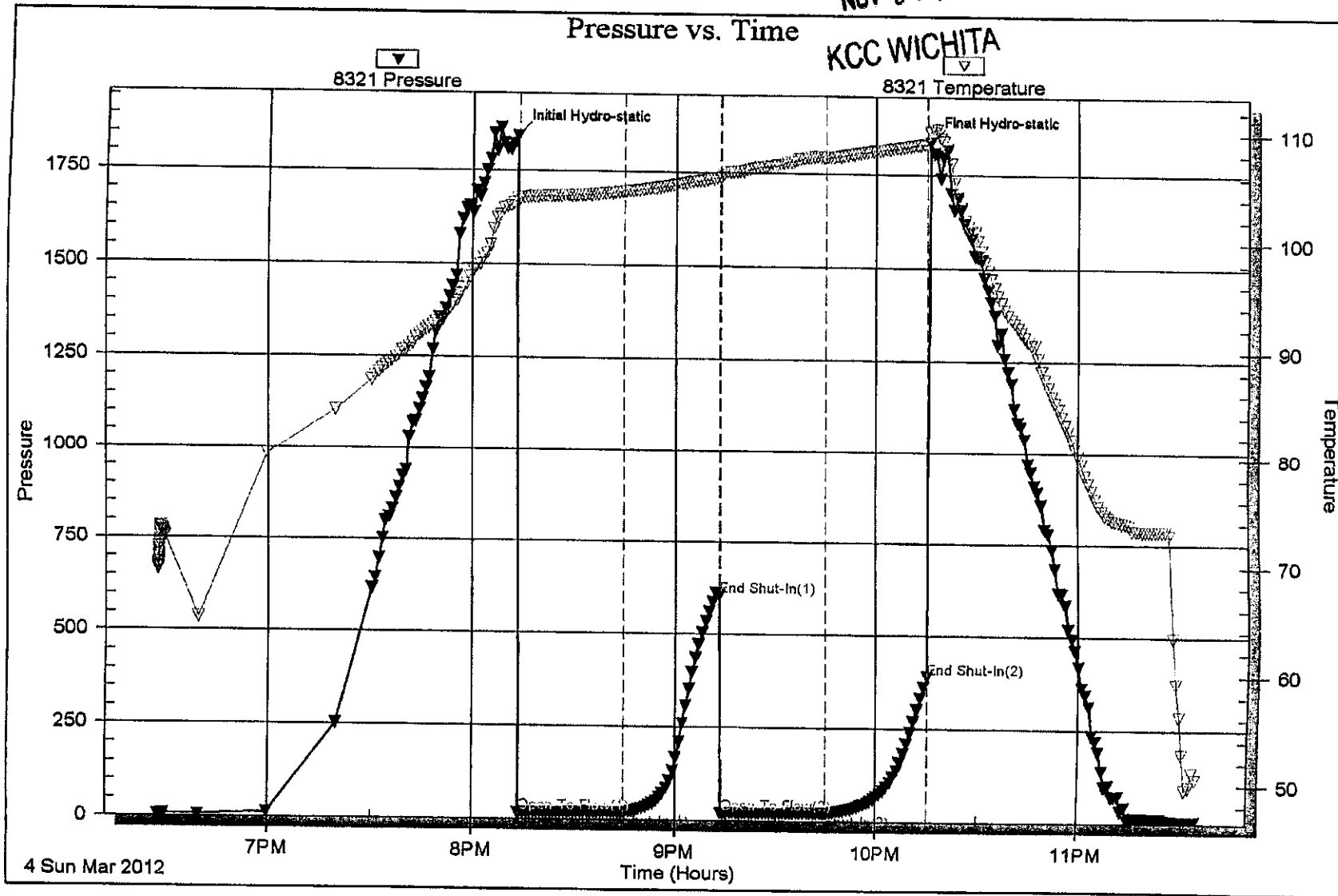
Serial #: 8321

Inside Deutscher Oil Operations

FHS #1-27

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NOV 05 2012

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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MAR 05 2012

Test Ticket

NO. 44802

Well Name & No. PHS # 1-27 BY: _____ Test No. 1 Date 3-3-12
 Company Deutscher Oil Operations Elevation 2179 KB 2174 GL _____
 Address 2334 130TH AVE. ELLIS KS 67637
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 27 Twp. 12S Rge. 20W Co. ELLIS State KS

Interval Tested 3537-3590 Zone Tested LKC-D-E+F
 Anchor Length 53 Drill Pipe Run 3423 Mud Wt. 8.7
 Top Packer Depth 3532 Drill Collars Run 124 Vis 6.7
 Bottom Packer Depth 3537 Wt. Pipe Run 0 WL 6.0
 Total Depth 3590 Chlorides 4000 ppm System LCM 2

Blow Description FP-Weak Surface BUILT TO 1/4 IN RECEIVED
IS-Dead No Blow Back NOV 05 2012
FP-Dead No Blow
IS-Dead No Blow Back KCC WICHITA

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Feet of mud with a skin of oil</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

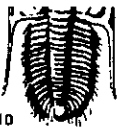
Rec Total 5 BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1718 Test 1125 T-On Location 9:41
 (B) First Initial Flow 38 Jars _____ T-Started 10:21
 (C) First Final Flow 40 Safety Joint _____ T-Open 12:08
 (D) Initial Shut-In 31.6 Circ Sub _____ T-Pulled 14:08
 (E) Second Initial Flow 42 Hourly Standby _____ T-Out 15:50
 (F) Second Final Flow 44 Mileage 42 RT 58.80 Comments _____
 (G) Final Shut-In 258 Sampler _____
 (H) Final Hydrostatic 11695 Straddle _____

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1183.80
 Total 1183.80
 MP/DST Disc't _____

Approved By _____ Our Representative Jeff Brown

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TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

MAR 05 2012

TEST TICKET

NO. 44803

Well Name & No. PHS #1-27 Test No. 2 Date 3-4-12
 Company De Ytcher Oil Operations Elevation 2179 KB 2174 GL
 Address 2334 130th Ave Ellis KS 67637
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 27 Twp. 12s Rge. 20W Co. ELLIS State KS

Interval Tested 3614-3695 Zone Tested LKC-H-I-J
 Anchor Length 81 Drill Pipe Run 3483 Mud Wt. 9.0
 Top Packer Depth 3609 Drill Collars Run 124 Vis 69
 Bottom Packer Depth 3614 Wt. Pipe Run 0 WL 6.4
 Total Depth 3695 Chlorides 6000 ppm System LCM 3

Blow Description PP-Weak Blow Built TO 1 1/2 IN
IS-Dead No Blow Back
PP-Dead No Blow
IS-Dead NO Blow Back

RECEIVED
 NOV 05 2012
 KCC WICHITA

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud with a scum of oil</u>				

Rec Total 20 BHT 10Lp Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1790
- (B) First Initial Flow 54
- (C) First Final Flow 61
- (D) Initial Shut-In 42Lp
- (E) Second Initial Flow 62
- (F) Second Final Flow 73
- (G) Final Shut-In 29Lp
- (H) Final Hydrostatic 1760

- Test 1125
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 42 Rt 58.80
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

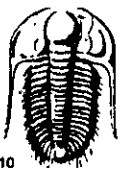
T-On Location 2:07
 T-Started 2:32
 T-Open 4:14
 T-Pulled 6:14
 T-Out 7:48
 Comments _____

 Sub Total 1183.80
 Total 1183.80
 MP/DST Disc't _____

Sub Total 1183.80

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

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Test Ticket

NO. 44804

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Well Name & No. PHS #1-27 BY: _____ Test No. 3 Date 3-4-12
 Company Deutscher oil operations Elevation 2179 KB 2174 GL _____
 Address 2334 130th Ave Ellis KS 6674037
 Op. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 27 Twp. 12S Rge. 20W Co. ELLIS State KS

Interval Tested 3794-3810 Zone Tested Marm
 Hour Length 16 Drill Pipe Run 3678 Mud Wt. 9.0
 Packer Depth 3789 Drill Collars Run 124 Vis 42
 From Packer Depth 3794 Wt. Pipe Run 0 WL 7.6
 Total Depth 3810 Chlorides 9800 ppm System LCM 2

Well Description FP-Weak Blow Built to 1/4 IN DIED BACK TO 1/8 IN **RECEIVED**
IS-Dead NO Blow BACK **NOV 05 2012**
FP-Dead NO Blow
FS-Dead NO Blow BACK **KCC WICHITA**

Feet of	%gas	%oil	%water	%mud
<u>5</u> Feet of <u>U30CM</u>		<u>2</u>		<u>98</u>
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud
Feet of _____	%gas	%oil	%water	%mud

Total 5 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 1845 Test 1125 T-On Location 17:43
 First Initial Flow 17 Jars _____ T-Started 18:27
 First Final Flow 20 Safety Joint _____ T-Open 20:15
 Initial Shut-In 604 Circ Sub _____ T-Pulled 22:15
 Second Initial Flow 21 Hourly Standby _____ T-Out 23:34
 Second Final Flow 22 Mileage 42 RT 58.80 Comments _____
 Final Shut-In 391 Sampler _____
 Final Hydrostatic 1837 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Open 30 Ruined Shale Packer _____
 Shut-In 30 Ruined Packer _____ **RECEIVED**
 Flow 30 Extra Copies _____ **NOV 05 20**
 Shut-In 30 Sub Total 0 Total 1183.80 **KCC WICHITA**
 Sub Total 1183.80 MP/DST Disc't _____

Tested By _____ Our Representative Jeff Brown

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