



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1096236

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

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

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ 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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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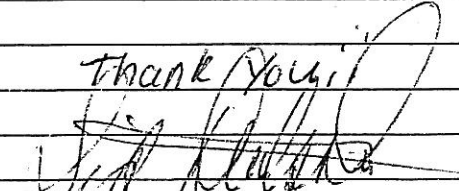
QUALITY WELL SERVICE, INC.

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 E into			
Contractor								Ww Drilling								Owner		To Quality Well Service, Inc.	
Type Job								Rotary Plug Rotary Plug								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								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint								Cement Amount Ordered				230 60/40 4% 1/4# F10			
Meas Line				Displace															
EQUIPMENT																			
Pumptrk	No.	8		David		Niece		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											
DV 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											
RH = 30 SX								Guide Shoe											
								Centralizer											
								Baskets											
								AFU Inserts											
								Float Shoe											
								Latch Down											
								RECEIVED											
								NOV 05 2012											
								KCC WICHITA											
								Pumptrk Charge											
								Mileage											
								Tax											
								Discount											
								Total Charge											
Signature																			

QUALITY WELL SERVICE, INC.

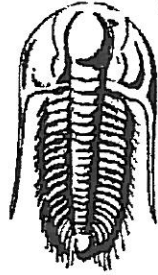
5504

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	11:15 AM
Lease	BH Worth	Well No.	3			Location ELLIS 1 1/2 N 1 E 1/4 N Finto									
Contractor	www Drilling							Owner							
Type Job	Surface							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4			T.D.	220			Charge To							
Csg.	8 5/8			Depth	220.45			Deutscher Oil Operations							
Tbg. Size				Depth				Street 2334 130th Ave							
Tool				Depth				City ELLIS State KS							
Cement Left in Csg.	15ft			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	13.08			Cement Amount Ordered 170 sk cum 3%cc 2%gel							
EQUIPMENT															
Pumptrk	No.	5		NEATE		Common									
Bulktrk	No.	4		LUBRICA		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														
	CFL-117 or CD110 CAF 38														
	Sand														
	Handling														
	Mileage														
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	Thank You!!														



**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

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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-D-F

2012.03.03



**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: 44802

DST#: 1

ATTN: Sid Deutscher

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

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

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

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)

Start Date: 2012.03.03

Start Time: 10:21:07

End Date: 2012.03.03

End Time: 15:49:36

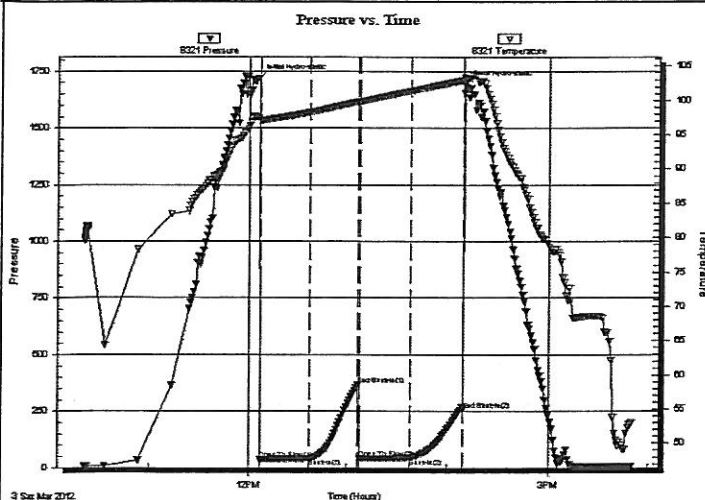
Capacity: 8000.00 psig

Last Calib.: 2012.03.03

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

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:

bbbl

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 bbbl
5.00	Mud with a scum of oil	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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Serial #: 8321

Inside

Deutscher Oil Operations

PHS#-1-27

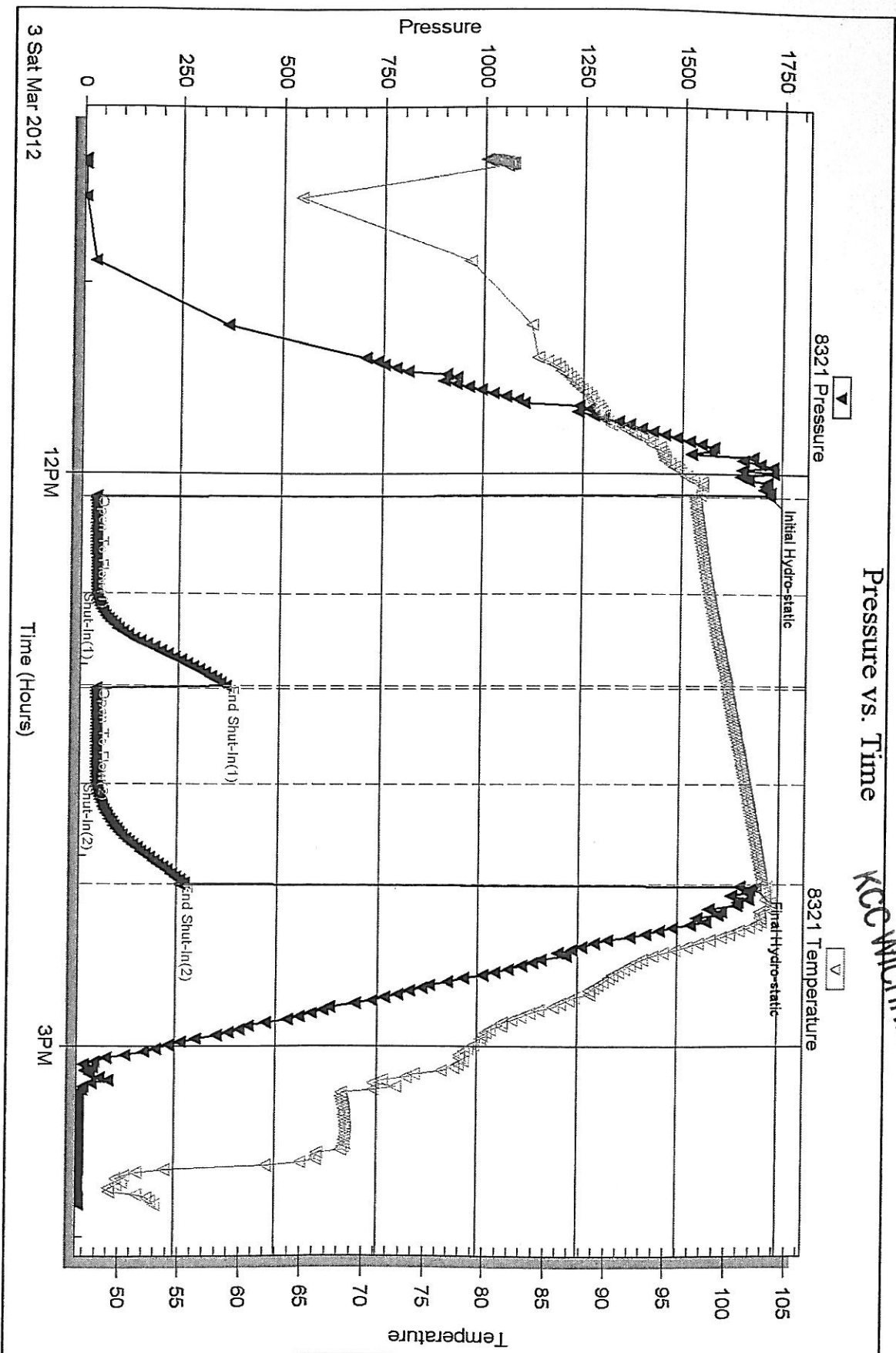
DST Test Number: 1

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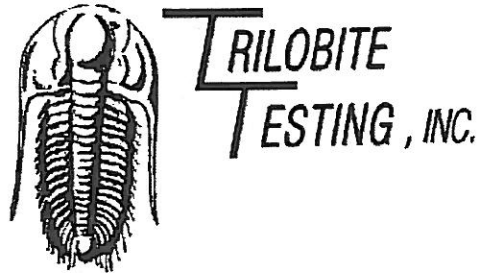
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 44802

Printed: 2012.03.08 @ 10:31:35



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

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

GENERAL INFORMATION:

Formation: LKC-H-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:13:02

Time Test Ended: 07:48:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3614.00 ft (KB) To 3695.00 ft (KB) (TVD)

Total Depth: 3695.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2179.00 ft (KB)

2174.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press@RunDepth: 73.11 psig @ 3618.00 ft (KB)

Start Date: 2012.03.04

End Date:

2012.03.04

Start Time: 02:32:33

End Time:

07:48:02

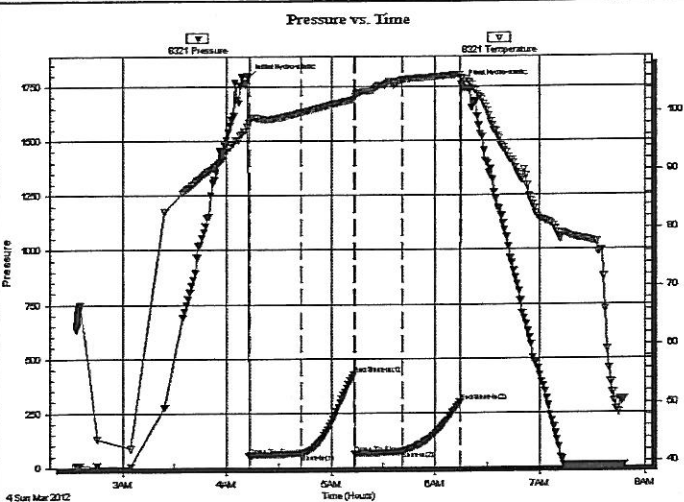
Capacity: 8000.00 psig

Last Calib.: 2012.03.04

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
			<u>Total Volume: 49.54 bbl</u>	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	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:

bbbl

Water Loss: 6.39 in³

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 bbbl
20.00	Mud with a scum of oil	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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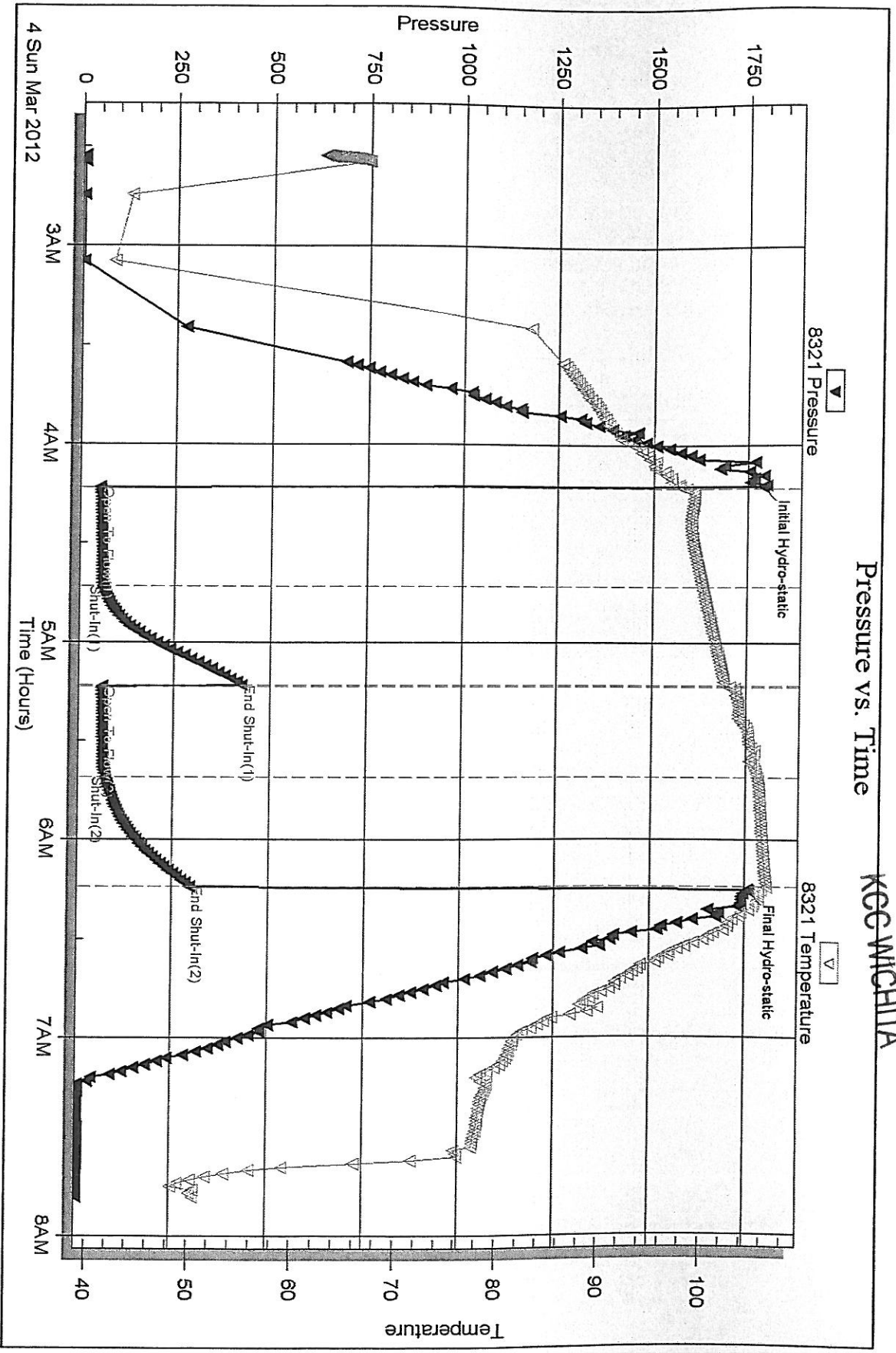
Serial #: 8321 Inside Deutscher Oil Operations

PHS #1-27

DST Test Number: 2

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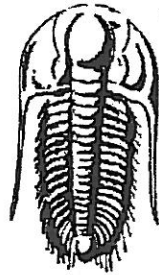
Pressure vs. Time KGC WICHTA



Trilobite Testing, Inc

Ref. No: 44804

Printed: 2012.03.08 @ 10:31:49



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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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

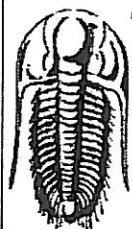
27-12s-20w Ellis,KS

PHS #1-27

DST # 3

Marm

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

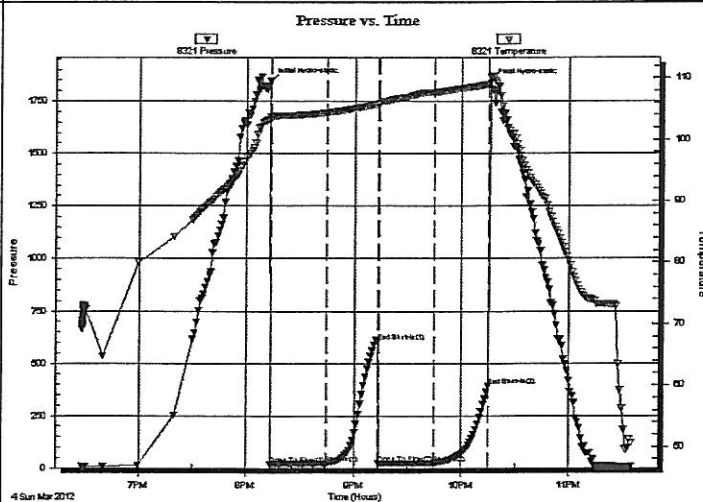
Test Start: 2012.03.04 @ 18:27:33

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 (Min.)	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

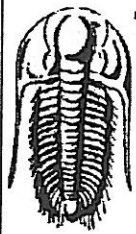
Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2 %O98%M	0.02

* 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

Job Ticket: 44804

DST#: 3

ATTN: Sid Deutscher

Test Start: 2012.03.04 @ 18:27:33

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 98000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	VSOCM 2 %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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Serial #: 8321 Inside Deutscher Oil Operations

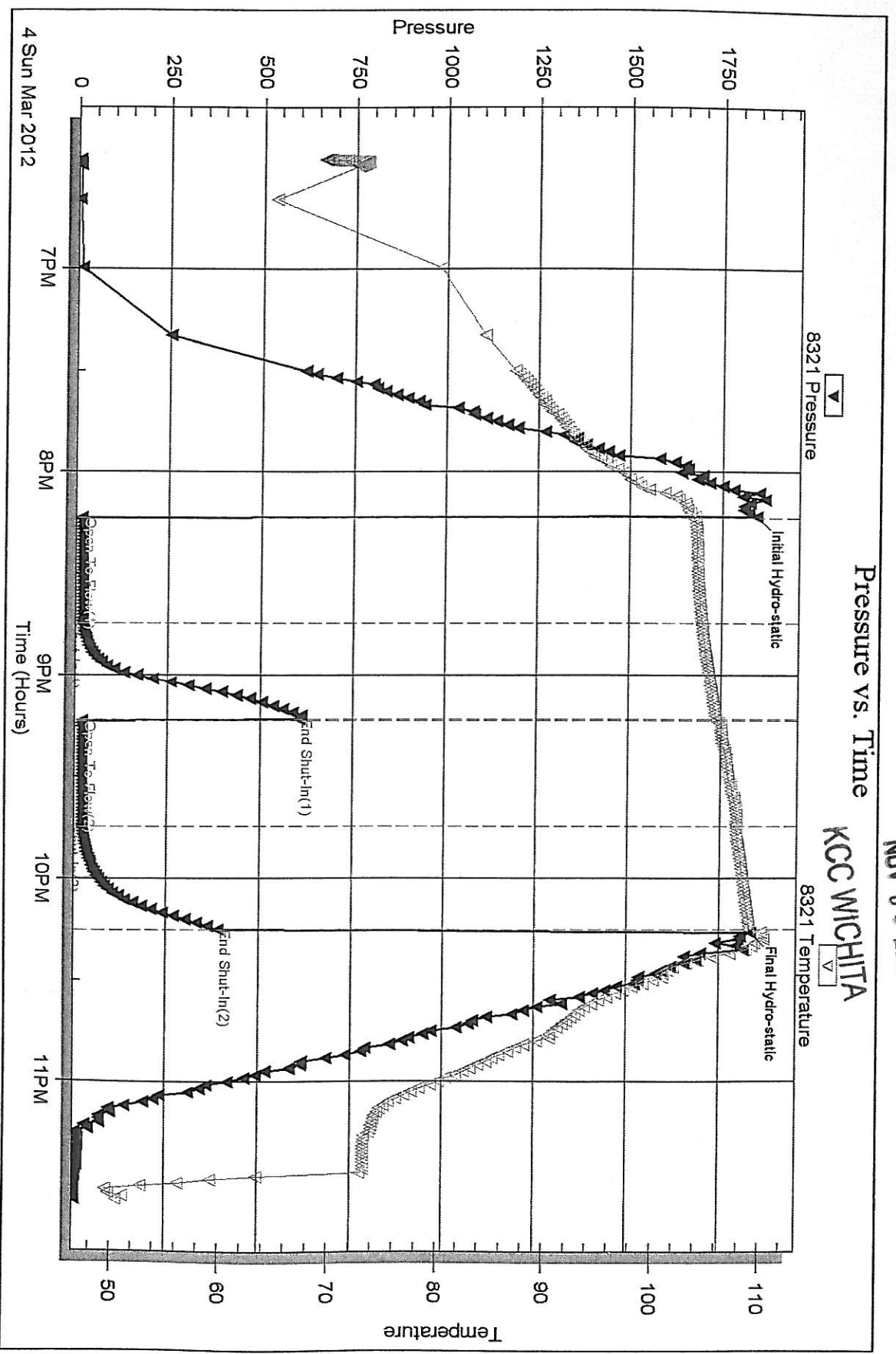
RHS #1-27

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DST Test Number: 3

Pressure vs. Time

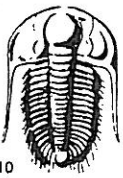
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Trilobite Testing, Inc

Ref. No: 44804

Printed: 2012.03.08 @ 10:32:05



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P.O. Box 1733 • Hays, Kansas 67601

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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 667637
 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 APP-Weak Surface BUILT TO 1/4 IN RECEIVED
ISI-Dead No Blow Back NOV 05 2012
APP-Dead No Blow
ISI-Dead No Blow Back KCC WICHITA

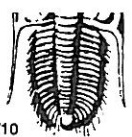
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Feet of MUD WITH A SCUM OF OIL</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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 3104 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 11095 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1183.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1183.80

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 Deutscher oil operations Elevation 2179 KB 2174 GL
 Address 2334 130TH AVE ELLIS KS 667637
 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 3488 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 IP-Weak Blow Built TO 1 1/2 IN
ISI-Dead No Blow Back
AP-Dead No Blow
FSI-Dead NO Blow Back

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

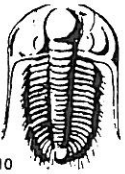
Rec Total 20 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1790 Test 1125 T-On Location 2:07
 (B) First Initial Flow 54 Jars _____ T-Started 2:32
 (C) First Final Flow 61 Safety Joint _____ T-Open 4:14
 (D) Initial Shut-In 426 Circ Sub _____ T-Pulled 6:14
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 7:48
 (F) Second Final Flow 73 Mileage 42 RT 58.80 Comments _____
 (G) Final Shut-In 296 Sampler _____
 (H) Final Hydrostatic 1760 Straddle _____

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

Approved By _____ Our Representative Jeff Brown

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Test Ticket

NO. 44804

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 67637
 Geol. 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 140 Drill Pipe Run 3673 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 1st-Week Blow Built to 1/4 IN died back to 1/8 IN
1st-Dead NO Blow Back
2nd-Dead NO Blow
3rd-Dead NO Blow Back

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Feet of	%gas	%oil	%water	%mud
<u>5</u> Feet of <u>USOCM</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 _____
 Flow 30 Extra Copies _____
 Shut-In 30 Sub Total 0
 Sub Total 1183.80

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Tested By _____ Our Representative Jeff Brown

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