

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

2/16/13
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 # 30525
Name: D.S. LANGSTON
Address 1: 310 W. CENTRAL, STE.# 202
Address 2: _____
City: WICHITA State: KS Zip: 67202 + 1004
Contact Person: D.S. LANGSTON
Phone: (620) 786-0874
CONTRACTOR: License # 33350
Name: SOUTHWIND DRLG., INC.
Wellsite Geologist: DAVE WILLIAMS
Purchaser: NCRA

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 #: _____

10/27/2011 11/04/2011 11/04/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-25613-00-00
Spot Description: _____
SE NW SE Sec. 36 Twp. 18 S. R. 11 East West
1,810 Feet from North / South Line of Section
1,585 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: BARTON
Lease Name: DOLL Well #: 30
Field Name: MARY IDA
Producing Formation: L- KC
Elevation: Ground: 1752 Kelly Bushing: 1759
Total Depth: 3265' Plug Back Total Depth: 3265'
Amount of Surface Pipe Set and Cemented at: 499 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: 9300 ppm Fluid volume: 665 bbls
Dewatering method used: ALLOWED TO EVAPORATE
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: CONFIDENTIAL License #: _____
Quarter _____ Sec _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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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: [Signature]
Title: INDEP. OIL & GAS OPERATOR Date: 2/16/12

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 2/16/12 - 2/16/13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 3/14/12

Operator Name: D.S. LANGSTON Lease Name: DOLL Well #: 30
Sec. 36 Twp. 18 S. R. 11 East West County: BARTON

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 type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>PLATTSMOUTH</td> <td>2754</td> <td>- 995</td> </tr> <tr> <td>HEEBNER</td> <td>2810</td> <td>-1051</td> </tr> <tr> <td>DOUGLAS</td> <td>2838</td> <td>-10</td> </tr> <tr> <td>BR. LIME</td> <td>2927</td> <td>-1168</td> </tr> <tr> <td>LANSING</td> <td>2947</td> <td>-1188</td> </tr> <tr> <td>BASE KC</td> <td>3198</td> <td>-1439</td> </tr> <tr> <td>QUARTZITE (ARB. ABSENT)</td> <td>3240</td> <td>-1481</td> </tr> </tbody> </table>	Name	Top	Datum	PLATTSMOUTH	2754	- 995	HEEBNER	2810	-1051	DOUGLAS	2838	-10	BR. LIME	2927	-1168	LANSING	2947	-1188	BASE KC	3198	-1439	QUARTZITE (ARB. ABSENT)	3240	-1481
Name	Top		Datum																							
PLATTSMOUTH	2754		- 995																							
HEEBNER	2810		-1051																							
DOUGLAS	2838		-10																							
BR. LIME	2927	-1168																								
LANSING	2947	-1188																								
BASE KC	3198	-1439																								
QUARTZITE (ARB. ABSENT)	3240	-1481																								
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 <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									

List All E. Logs Run:
GRT, CNT, LDT, PIT, MLT, CST

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 1/2	8 5/8	23#	499	60/40 POZ.	375	3%cc, 2%gel
PRODUCTION	7	5 1/2	14#	3252	60/40 POZ	205	2%GEL, 18z%SALT

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

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/ft. 11/18/11	3252.5 - 3258.5 & 3244 - 3254 (Quartzite)	11/21 250 GAL 28% HCL (never got Quartzite opened)	see perms
4/ft. 11/21/11	3182-86 "L" , 3148-51 "K"	11/23 250 gal 28%(L) & 250 gal(K), 1500 gal retreat of both	" "
4/ft. 11/21/11	3080-86"H"	11/22 400 gal 15%, 11/23 500 gal. 15%	" "
2/ft. 1/11/12	3123-28 "perf.d only the lower half of J"	1/11/12 1500 gal 15% (rate of 5bbl/min. @ 1000psi)	" "

TUBING RECORD:		Size: <u>2 7/8</u>	Set At: <u>3186</u>	Packer At: <u>n/a</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>12/10/11</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 initial, 15 now</u>	Gas Mcf <u>15 Mcf, now < 1</u>	Water Bbls. <u>20% approx.</u>	Gas-Oil Ratio <u>< .16 Mcf/1 bbl oil</u>	Gravity <u>40</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: <u>KC; 3080-86 (H), 3123-28 (J), 3148-51 (K), 3182-86 (L really opened?)</u>
--	---	--

COPELAND

Acid & Cement

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

PO BOX
 HAYSVILLE
 (316) 524-1225
 (316) 524-1027 FAX

BILL TO:

D.S. LANGSTON
 310 W. CENTRAL, STE. 202
 WICHITA, KS 67202-1004

LEASE: DOLL 30

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/14/2011	C39361		11/05/2011		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
20.00	MI	CEMENT MILEAGE PUMP TRUCK		0.00	4.00	80.00
20.00	MI	CEMENT MILEAGE PU TRUCK		0.00	2.00	40.00
1.00	EA	CEMENT PUMP CHARGE		0.00	1,000.00	1,000.00
5.00	EA	CENTRALIZERS		0.00	65.00	325.00
180.00	SAX	60-40 POZ MIX 2% GEL		0.00	9.25	1,665.00
2,850.00	LB	SALT		0.00	0.18	513.00
50.00	LB	C-37 FRICTION REDUCER		0.00	3.75	187.50
50.00	LB	FLO-SEAL		0.00	3.00	150.00
600.00	GAL	MUD FLUSH		0.00	0.80	480.00
1.00	EA	5 1/2 LATCH DOWN PLUG & BAFF		0.00	175.00	175.00
1.00	EA	5,1/2 GUIDE SHOE		0.00	110.00	110.00
1.00	EA	5 1/2 AUTO FILL ASSEMBLY		0.00	70.00	70.00
1.00	EA	5 1/2 BASKET		0.00	155.00	155.00
239.00	EA	BULK CHARGE		0.00	1.25	298.75

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*paid 11/16
 check #6318*

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Acid & Cement

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

HAYVILLE
 (316) 524-1027
 (316) 524-1027

BILL TO:

D.S. LANGSTON
 310 W. CENTRAL, STE. 202
 WICHITA, KS 67202-1004

LEASE: DOLL 30

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/14/2011	C39361		11/05/2011		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
188.00	MI	BULK TRUCK - TON MILES		0.00	1.10	206.80
CONFIDENTIAL FEB 16 2013 KCC				RECEIVED FEB 17 2012 KCC WICHITA		
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		Net Invoice: 5,456.05 BATCO Sales Tax: 147.64 Invoice Total: 5,603.69		
RECEIVED BY _____		NET 30 DAYS				

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code

COPELAND

Acid & Cement



Date: 11/5/11 District: G.B. F.O. No: C39361
 Company: D.S. Lawson
 Well Name & No: Dall #30
 Location: _____ Field: _____
 County: Deaton State: KS
 Casing: Size: 5 1/2" Type & Wt. _____ Set at _____ ft.
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Liner: Size: _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.
 Cemented: Yes/No. Perforated from _____ ft. to _____ ft.
 Tubing: Size & Wt. _____ Swung at _____ ft.
 Perforated from _____ ft. to _____ ft.
 Open Hole Size: _____ T.D. _____ ft. P.D. to _____ ft.

Blowdown _____
 Ebb _____
 Ebb / Oil _____
 Flush _____ Ebb / Oil _____
 Treated from _____ ft. to _____ ft.
 from _____ ft. to _____ ft.
 from _____ ft. to _____ ft. @ No. _____
 Actual Volume of Oil/Water to Load/Hole _____
 Pump Trucks. No. Used: Std. 320 @ _____
 Auxiliary Equipment 327
 Packer: _____ Set at _____
 Auxiliary Tools _____
 Plugging or Sealing Materials: Type _____

Company Representative: Dave Lawson Treater: Nathan W.

TIME a.m. (p.m.)	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
9:30	-	5 1/2"		on location
				Hole = 3263'
				Pipe = 3257'
				Break circulation w/ mud pump
				Circ. 30 min
				Pump 60 gal. mud flush
				plug Ret Hole w/ 30 sks
				mix 150 sks 60/40 poz. 2% gel
				1 1/2% salt 4% CRZ 1/4 #/sks
				Flt - Seal.
				Displace w/ 79 bbls. @ 8.7 bpm
				@ 650 #
				Plus landed @ 1,000 #
				Released. Flact Held.
3:05				

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Thank You!
 Nathan W.

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D.S. Langston
Independent Oil & Gas Operator
310 W. Central, Ste.# 202
Wichita, Kansas 67218
Cell: (620) 786-0874
Phone: (316) 265-4411
Fax: (316) 263-7820

February 16, 2012

KANSAS CORP. COMMISSION
130 N. MARKET, ROOM 2078
WICHITA, KS 67202-3802
ATTN: DEANNA & JEFF KLOCK

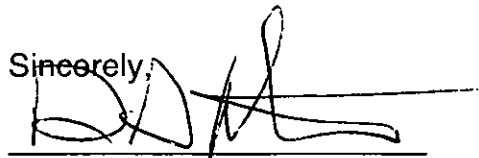
Re: **ACO-1 WELL COMPLETION FORM**
For the Doll #30
located in **SE NW SE of Sec. 36-18S-10W**, BARTON Co., KS

Dear Deanna:

Following up on our phone conversation this same date, enclosed please find the above referenced ACO-1 Well Completion Report. This same date Tucker Wireline Services was also supposed to have E-mailed your staff a complete suite of the open-hole logs for this new well. If there are any questions or further data is desired, please feel free to contact me at either of the above cell or office phone number(s).

Please return a file stamped copy for the office records if you could. Thanks for your assistance.

Sincerely,



D.S. Langston, Producer #30525

DSL/mb

*P.S. : Please hold confidential
for at least 6 months.*

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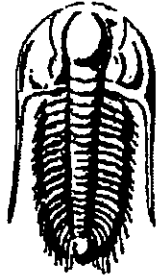
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **DS Langston**

310 W. Central
STE 202
Wichita KS 67202+1004

ATTN: Dave Williams

Doll #30

36-18s-11w Barton,KS

Start Date: 2011.11.01 @ 00:30:05

End Date: 2011.11.01 @ 06:57:39

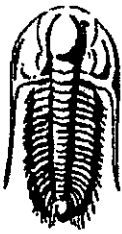
Job Ticket #: 44267 DST #: 1

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

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Printed: 2011.11.11 @ 09:28:00
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2011.11.01 09:28:00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DS Langston
310 W. Central
STE 202
Wichita KS 67202+1004
ATTN: Dave Williams

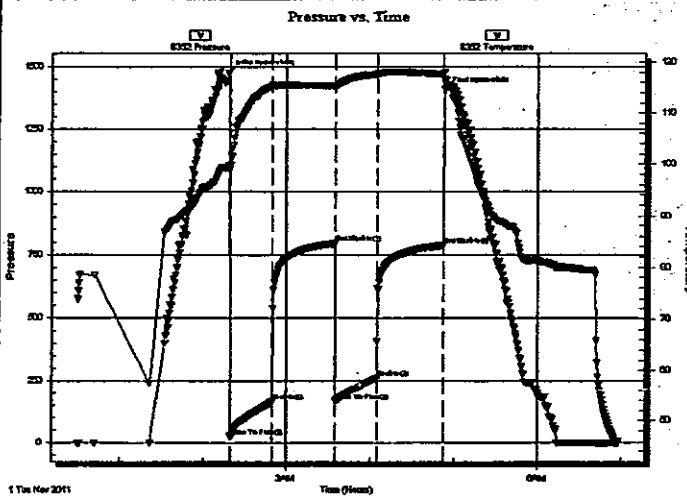
36-18s-11w Barton, KS
Doll #30
Job Ticket: 44267 DST#: 1
Test Start: 2011.11.01 @ 00:30:05

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **02:19:10** Tester: **Andy Carreira**
 Time Test Ended: **06:57:39** Unit No: **39**
 Interval: **3029.00 ft (KB) To 3047.00 ft (KB) (TVD)** Reference Elevations: **1758.00 ft (KB)**
 Total Depth: **3047.00 ft (KB) (TVD)** **1751.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor** KB to GR/CF: **7.00 ft**

Serial #: 8352 **Outside**
 Press@RunDepth: **260.18 psig @ 3030.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.11.01** End Date: **2011.11.01** Last Calib.: **2011.11.01**
 Start Time: **00:30:05** End Time: **06:57:40** Time On Btmr: **2011.11.01 @ 02:18:00**
 Time Off Btmr: **2011.11.01 @ 04:52:59**

TEST COMMENT: IF:(30min) BOB, 8 min
 IS:(45min) No Return
 FF:(30min) BOB, 10 min
 FS:(45min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1474.87	99.70	Initial Hydro-static
2	23.38	98.95	Open To Flow (1)
32	164.94	115.37	Shut-In(1)
77	795.93	115.32	End Shut-In(1)
77	167.72	115.06	Open To Flow (2)
107	260.18	117.63	Shut-In(2)
155	789.14	117.72	End Shut-In(2)
155	1404.50	116.43	Final Hydro-static

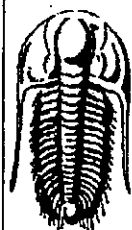
Recovery

Length (ft)	Description	Volume (bbl)
500.00	SOSW	5.92

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DS Langston
310 W. Central
STE 202
Wichita KS 67202+1004
ATTN: Dave Williams

36-18s-11w Barton, KS
Doll #30
Job Ticket: 44267 DST#: 1
Test Start: 2011.11.01 @ 00:30:05

Tool Information

Drill Pipe:	Length: 2897.00 ft	Diameter: 3.80 inches	Volume: 40.64 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 41.23 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3029.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			3002.00	
Shut In Tool	5.00			3007.00	
Hydraulic tool	5.00			3012.00	
Jars	5.00			3017.00	
Safety Joint	3.00			3020.00	
Packer	5.00			3025.00	28.00 Bottom Of Top Packer
Packer	4.00			3029.00	
Stubb	1.00			3030.00	
Recorder	0.00	8017	Inside	3030.00	
Recorder	0.00	8352	Outside	3030.00	
Perforations	14.00			3044.00	
Bullnose	3.00			3047.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DS Langston

36-18s-11w Barton,KS

310 W. Central
STE202
Wichita KS 67202+1004
ATTN: Dave Williams

Doll #30

Job Ticket: 44267

DST#: 1

Test Start: 2011.11.01 @ 00:30:05

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:

29000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	SOSW	5.921

Total Length: 500.00 ft

Total Volume: 5.921 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .31 @ 50deg = 29000

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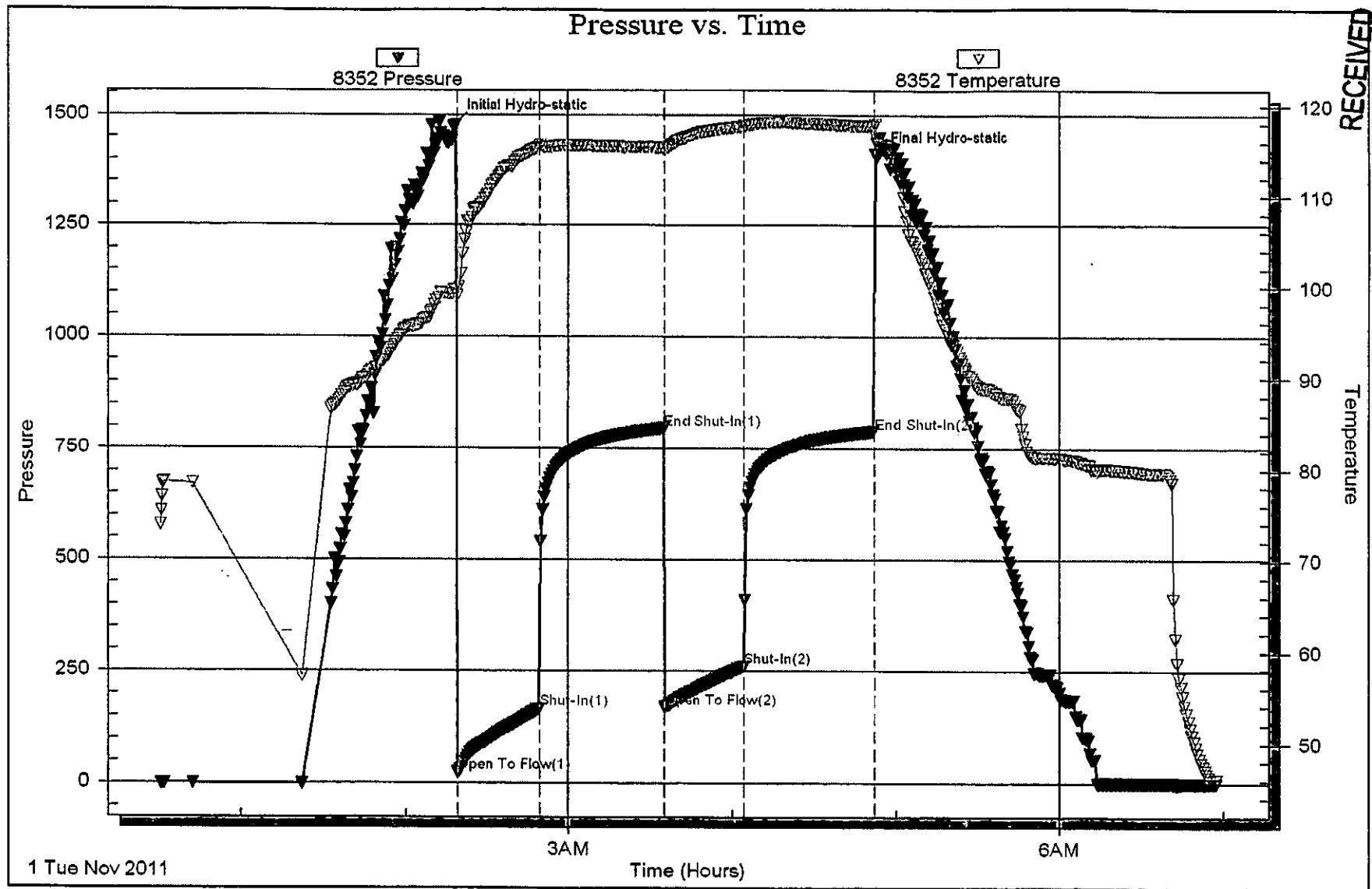
MAR 06 2012

Serial #: 8352

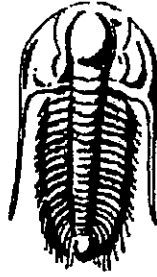
Outside DS Langston

Doll #30

DST Test Number: 1



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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **DS Langston**

310 W. Central
STE 202
Wichita KS 67202+1004

ATTN: Dave Williams

Doll #30

36-18s-11w Barton,KS

Start Date: 2011.11.03 @ 08:52:05

End Date: 2011.11.03 @ 14:51:59

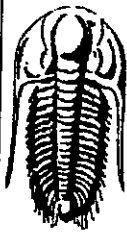
Job Ticket #: 44268 DST #: 2

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

Printed: 2011.11.11 @ 09:28:24

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DS Langston 36-18s-11w Barton,KS Doll #30 DST # 2 LKC"H-L,J" 2011.11.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DS Langston
310 W. Central
STE 202
Wichita KS 67202+1004
ATTN: Dave Williams

36-18s-11w Barton, KS

Doll #30

Job Ticket: 44268

DST#: 2

Test Start: 2011.11.03 @ 08:52:05

GENERAL INFORMATION:

Formation: **LKC"H-I-J"**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 10:35:40
Time Test Ended: 14:51:59

Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Andy Carreira**
Unit No: **39**

Interval: **3070.00 ft (KB) To 3116.00 ft (KB) (TVD)**
Total Depth: **3116.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1758.00 ft (KB)**
1751.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8352

Outside

Press@RunDepth: **101.09 psig @ 3076.00 ft (KB)**

Start Date: **2011.11.03**

End Date:

2011.11.03

Start Time: **08:52:05**

End Time:

14:51:59

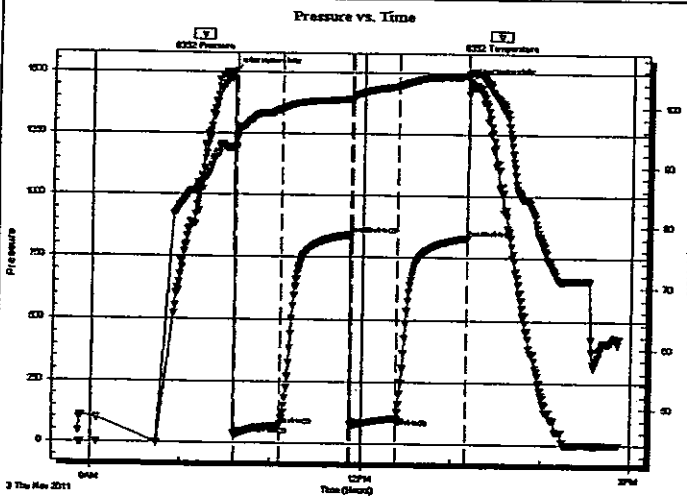
Capacity: **8000.00 psig**

Last Calib.: **2011.11.03**

Time On Btrt **2011.11.03 @ 10:33:50**

Time Off Btrt **2011.11.03 @ 13:10:50**

TEST COMMENT: IF:(30min) BOB, 2 min.
IS:(45min) Intermittent surface blow back.
FF:(30min) BOB, 1.5 min.
FS:(45min) Return Blow, BOB, 30 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1501.02	93.14	Initial Hydro-static
2	32.14	94.30	Open To Flow (1)
33	72.03	99.52	Shut-In (1)
78	839.97	101.32	End Shut-In(1)
79	73.82	101.09	Open To Flow (2)
110	101.09	103.54	Shut-In(2)
156	829.25	105.22	End Shut-In(2)
157	1465.49	105.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOCVM g=45% o=10% w=5% m=40%	0.32
120.00	HOCGM g=50% o=20% m=30%	1.18
30.00	HOCGM g=30% o=20% m=50%	0.42
0.00	GIP= 1425 ft	0.00

* Recovery from multiple tests

Gas Rates

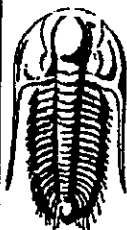
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 44268

Printed: 2011.11.11 @ 09:42:33

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DS Langston

36-18s-11w Barton,KS

310 W. Central
STE 202
Wichita KS 67202+1004
ATTN: Dave Williams

Doll #30
Job Ticket: 44268 DST#: 2
Test Start: 2011.11.03 @ 08:52:05

Tool Information

Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 41.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3070.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

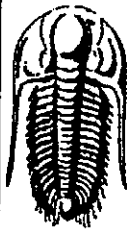
Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3043.00	
Shut In Tool	5.00			3048.00	
Hydraulic tool	5.00			3053.00	
Jars	5.00			3058.00	
Safety Joint	3.00			3061.00	
Packer	5.00			3066.00	28.00 Bottom Of Top Packer
Packer	4.00			3070.00	
Stubb	1.00			3071.00	
Perforations	4.00			3075.00	
Change Over Sub	1.00			3076.00	
Recorder	0.00	8017	Inside	3076.00	
Recorder	0.00	8352	Outside	3076.00	
Drill Pipe	31.00			3107.00	
Change Over Sub	1.00			3108.00	
Perforations	5.00			3113.00	
Bullnose	3.00			3116.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DS Langston

36-18s-11w Barton,KS

310 W. Central
STE 202
Wichita KS 67202+1004
ATTN: Dave Williams

Doll #30
Job Ticket: 44268 DST#: 2
Test Start: 2011.11.03 @ 08:52:05

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GOCWM g=45% o=10% w=5% m=40%	0.320
120.00	HOCGM g=50% o=20% m=30%	1.182
30.00	HOCGM g=30% o=20% m=50%	0.421
0.00	GIP= 1425 ft	0.000

Total Length: 215.00 ft Total Volume: 1.923 bbl

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

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Serial #: 8352

Outside DS Langston

Doll #30

DST Test Number: 2

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