



**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

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: \_\_\_\_\_



1051438

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
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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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Form	ACO1 - Well Completion
Operator	Maralex Resources, Inc.
Well Name	Heskett 6-1
Doc ID	1051438

Tops

Name	Top	Datum
Anhydrite	2172	+397
Baes Anhy.	2206	+363
Topeka	3460	-891
Heebner	3666	-1097
Toronto	3690	-1121
Lansing	3704	-1135
Muncie Creek	3806	-1237
BKC	3906	-1337
Arbuckle	3953	-1384

# ALLIED CEMENTING CO., LLC. 040811

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1-14-11	6	7	25		11:00 pm	11:00 am	11:30 am
LEASE	WELL# 1-6		LOCATION Studley Pw. '12E		COUNTY	STATE	
					Graham	KS	
OLD OR <u>NEW</u> (Circle one)				SC			

CONTRACTOR American Eagle #3 OWNER \_\_\_\_\_  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 ID \_\_\_\_\_  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2185'  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

EQUIPMENT  
 PUMP TRUCK CEMENTER Fuzze  
 # 431 HELPER Darwin  
 BULK TRUCK  
 # 294 DRIVER Jerry  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
25 cks @ 2185'  
100 cks @ 1362'  
40 cks @ 355'  
10 cks @ 40' w/ plug  
30 cks @ RT  
Job complete @ 11:30 am  
Thanks Fishman

CHARGE TO: Maralox Resources  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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.

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Brendon Fisher

CEMENT	AMOUNT ORDERED	<u>205 cks 60/40</u>
	<u>4.5 cks 144 cks local</u>	
COMMON	<u>123</u>	@ <u>15.45</u> <u>1900.35</u>
POZMIX	<u>82</u>	@ <u>8.00</u> <u>656.00</u>
GEL	<u>7</u>	@ <u>20.80</u> <u>145.60</u>
CHLORIDE		@ _____
ASC		@ _____
<u>Flowal 51#</u>		@ <u>2.50</u> <u>122.50</u>
HANDLING	<u>214</u>	@ <u>2.40</u> <u>513.60</u>
MILEAGE	<u>10 x 58 mile</u>	<u>1369.60</u>
TOTAL		<u>4712.65</u>

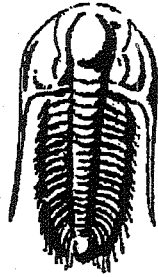
SERVICE

DEPTH OF JOB	<u>2185'</u>	
PUMP TRUCK CHARGE		<u>1017.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>64</u>	@ <u>7.00</u> <u>448.00</u>
MANIFOLD	@	
TOTAL		

PLUG & FLOAT EQUIPMENT

<u>1-8 1/2 plug</u>	@	<u>40.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>40.00</u>

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Maralex Resoures**

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

**6 7 25w Gramh KS**

**Heskett #6-1**

Start Date: 2011.01.11 @ 17:25:00

End Date: 2011.01.12 @ 03:05:00

Job Ticket #: 040034      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Maralex Resoures

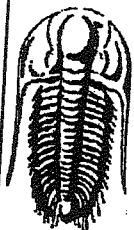
Heskett #6-1

6 7 25w Gramh KS

DST # 1

LKC-C

2011.01.11



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Maralex Resources

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

Heskett #6-1

6 7 25w Gramh KS

Job Ticket: 040034

DST#: 1

Test Start: 2011.01.11 @ 17:25:00

## GENERAL INFORMATION:

Formation: LKC-C  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:05:30  
 Time Test Ended: 03:05:00  
 Interval: 3702.00 ft (KB) To 3735.00 ft (KB) (TVD)  
 Total Depth: 3735.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 36

Reference Elevations: 2566.00 ft (KB)  
 2562.00 ft (CF)  
 KB to GR/CF: 4.00 ft

Serial #: 6741

Inside

Press@RunDepth: 345.86 psig @ 3703.00 ft (KB)

Start Date: 2011.01.11

End Date:

2011.01.12

Capacity: 8000.00 psig

Start Time: 17:25:01

End Time:

03:05:00

Last Calib.: 2011.01.12

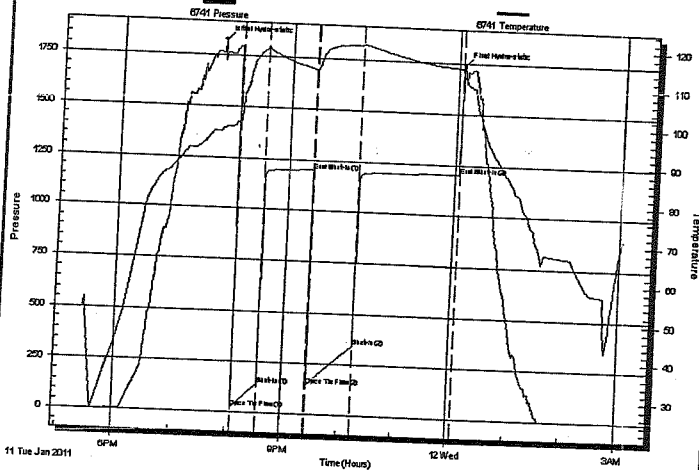
Time On Btm: 2011.01.11 @ 19:46:00

Time Off Btm: 2011.01.12 @ 00:06:30

## TEST COMMENT:

IF: Fair blow built to B.O.B in 10 mins.  
 IS: Bled off, blow back after 5 mins. Weak surface, died in 20 mins.  
 FF: Weak blow, Built to 3 in. over 15 mins. Started to die, 2 1/2 in. after 50 mins.  
 FSI

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.21	96.80	Initial Hydro-static
20	23.38	97.79	Open To Flow (1)
47	144.92	118.07	Shut-In(1)
100	1198.40	112.92	End Shut-In(1)
100	148.00	112.67	Open To Flow (2)
150	345.86	119.74	Shut-In(2)
259	1198.72	114.43	End Shut-In(2)
261	1740.44	112.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
676.00	mcw -10% m90%w	9.48
124.00	w cm-15%w 85%m	1.74

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040034

DST#: 1

ATTN: Clayton Erickson

Test Start: 2011.01.11 @ 17:25:00

## Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 51.63 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3702.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3679.00	
Hydraulic tool	5.00			3684.00	
Jars	5.00			3689.00	
Safety Joint	3.00			3692.00	
Packer	5.00			3697.00	28.00 Bottom Of Top Packer
Packer	5.00			3702.00	
Stubb	1.00			3703.00	
Recorder	0.00	6752	Inside	3703.00	
Recorder	0.00	6741	Inside	3703.00	
Perforations	29.00			3732.00	
Bullnose	3.00			3735.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040034

DST#: 1

ATTN: Clayton Erickson

Test Start: 2011.01.11 @ 17:25:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.18 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

deg API

Water Salinity:

30000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
676.00	mcw - 10% m 90% w	9.483
124.00	w cm - 15% w 85% m	1.739

Total Length: 800.00 ft

Total Volume: 11.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .4 @ 40F = 30000 ppm chlorides



Serial #: 6741

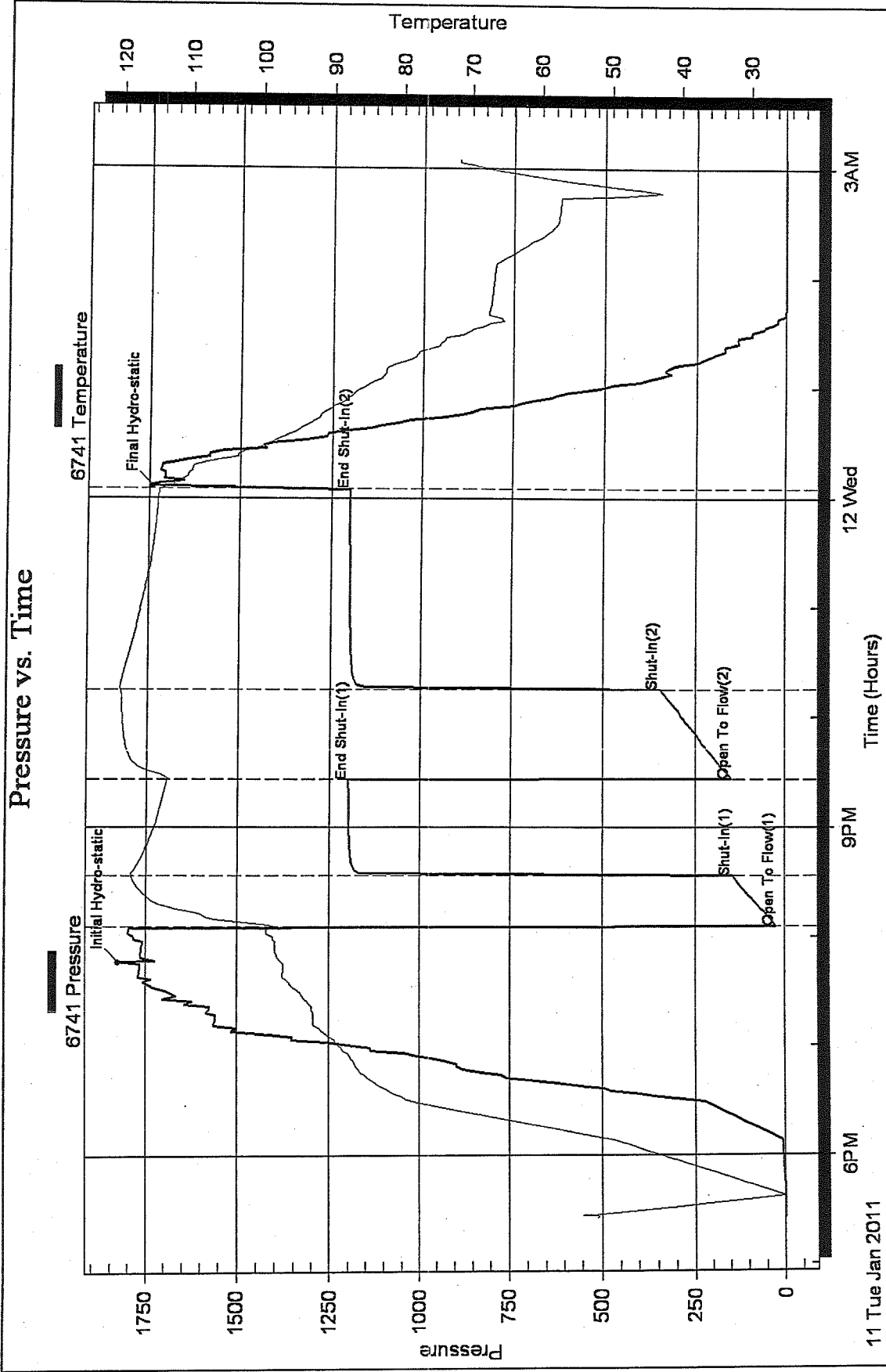
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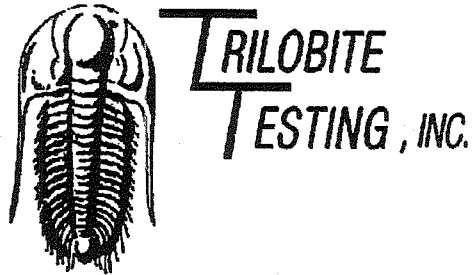
Maralex Resources

6 7 25w Gramh KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Maralex Resoures**

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

**6 7 25w Gramh KS**

**Heskett #6-1**

Start Date: 2011.01.12 @ 17:45:00

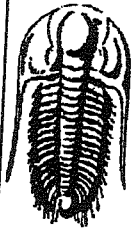
End Date: 2011.01.13 @ 00:40:00

Job Ticket #: 040035          DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

ATTN: Clayton Erickson

Job Ticket: 040035

DST#: 2

Test Start: 2011.01.12 @ 17:45:00

## GENERAL INFORMATION:

Formation: **LKC-E-G**  
Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:09:30

Time Test Ended: 00:40:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: **3750.00 ft (KB) To 3783.00 ft (KB) (TVD)**

Total Depth: **3783.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2566.00 ft (KB)**

**2562.00 ft (CF)**

KB to GR/CF: **4.00 ft**

Serial #: **6741**

Inside

Press@RunDepth: **146.75 psig @ 3751.00 ft (KB)**

Start Date: **2011.01.12**

End Date:

**2011.01.13**

Capacity: **8000.00 psig**

Start Time: **17:45:01**

End Time:

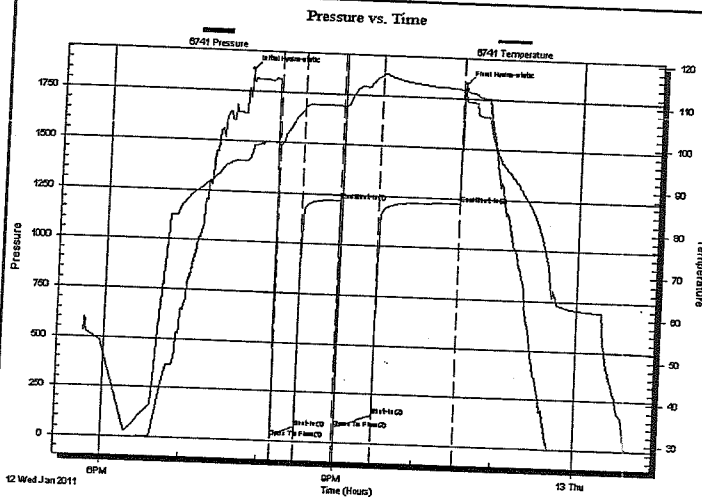
**00:40:00**

Last Calib.: **2011.01.13**

Time On Btm: **2011.01.12 @ 19:47:00**

Time Off Btm: **2011.01.12 @ 22:32:00**

**TEST COMMENT:** IF: Fair blow, built to B.O.B in 13 mins.  
IS: No blow back over 30 mins.  
FF: Weak surface blow, didn't blow thru 30 mins.  
FF: No blow back over 60 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1863.06	95.64	Initial Hydro-static
23	19.36	98.24	Open To Flow (1)
41	75.73	107.41	Shut-In(1)
72	1221.26	108.35	End Shut-In(1)
73	78.74	108.15	Open To Flow (2)
101	146.75	115.91	Shut-In(2)
164	1222.72	113.17	End Shut-In(2)
165	1826.08	112.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
92.00	mcw-20% m80%w	0.87
124.00	w cm-50% w 50% m	1.74
30.00	w cm-10% w 90% m	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040035

DST#: 2

ATTN: Clayton Erickson

Test Start: 2011.01.12 @ 17:45:00

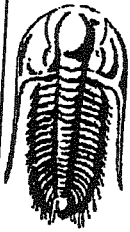
**Tool Information**

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.07 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3750.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3727.00	
Hydraulic tool	5.00			3732.00	
Jars	5.00			3737.00	
Safety Joint	3.00			3740.00	
Packer	5.00			3745.00	28.00 Bottom Of Top Packer
Packer	5.00			3750.00	
Stubb	1.00			3751.00	
Recorder	0.00	6752	Inside	3751.00	
Recorder	0.00	6741	Inside	3751.00	
Perforations	29.00			3780.00	
Bullnose	3.00			3783.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040035

DST#: 2

ATTN: Clayton Erickson

Test Start: 2011.01.12 @ 17:45:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	ft		
Water Loss: 7.38 in <sup>3</sup>	Cushion Volume:		
Resistivity: ohm.m	Gas Cushion Type:		
Salinity: 900.00 ppm	Gas Cushion Pressure:		
Filter Cake: 2.00 inches	psig		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
92.00	mcw -20%m80%w	0.870
124.00	w cm-50%w 50%m	1.739
30.00	w cm-10%w 90%m	0.421

Total Length: 246.00 ft      Total Volume: 3.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

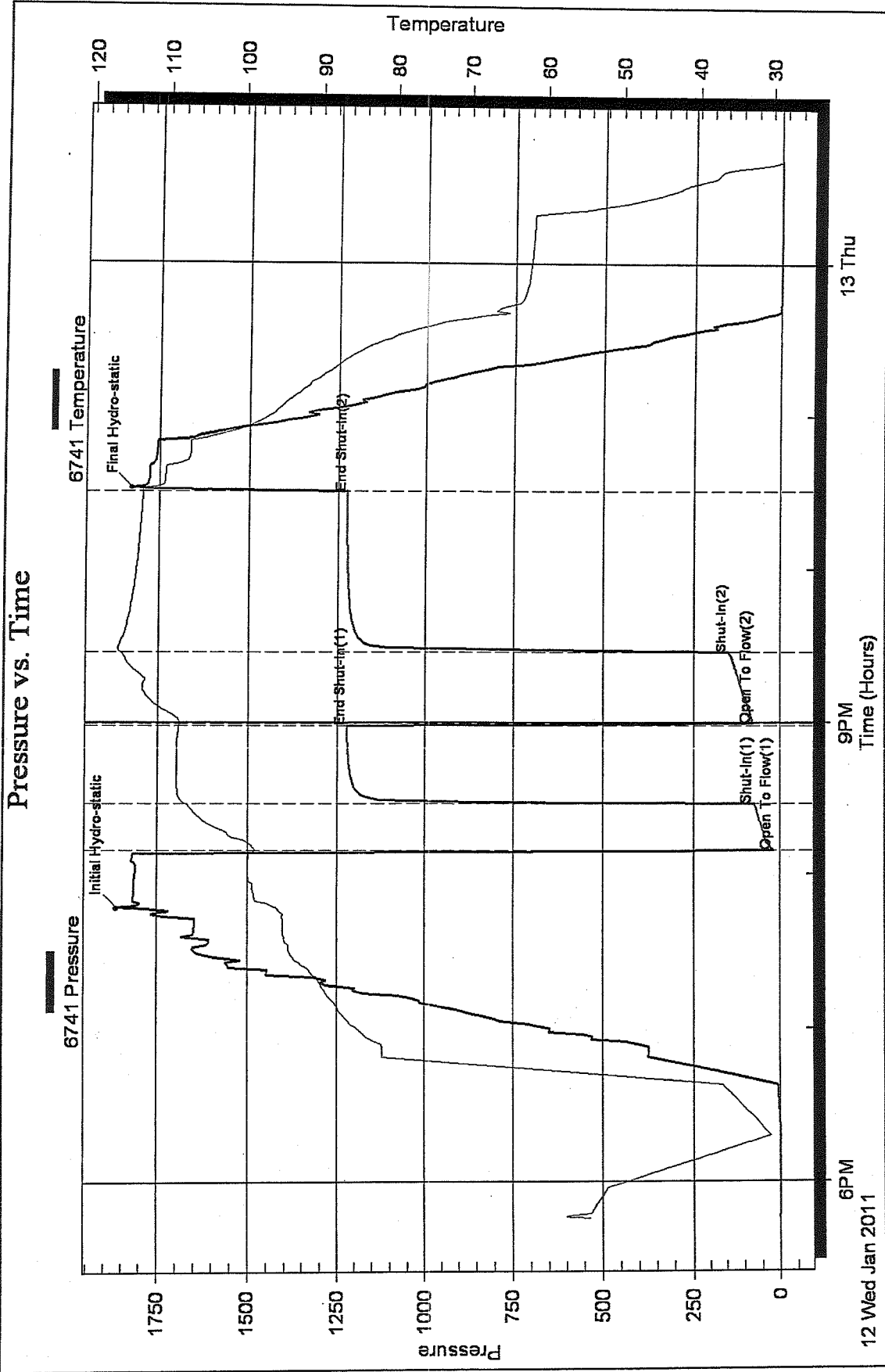
Inside

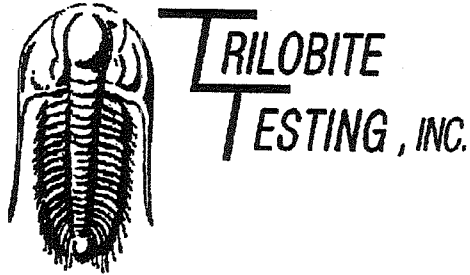
Maralex Resources

6 7 25w Gramh KS

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Maralex Resoures**

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

**6 7 25w Gramh KS**

**Heskett #6-1**

Start Date: 2011.01.13 @ 17:35:00

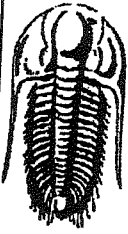
End Date: 2011.01.13 @ 23:07:00

Job Ticket #: 040036          DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Maralex Resources

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

Heskett #6-1

6 7 25w Gramh KS

Job Ticket: 040036

DST#: 3

Test Start: 2011.01.13 @ 17:35:00

## GENERAL INFORMATION:

Formation: LKC-J  
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:30

Time Test Ended: 23:07:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3826.00 ft (KB) To 3857.00 ft (KB) (TVD)

Total Depth: 3857.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2566.00 ft (KB)

2562.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6741

Inside

Press@RunDepth: 27.47 psig @ 3827.00 ft (KB)

Start Date: 2011.01.13

End Date:

2011.01.13

Capacity: 8000.00 psig

Start Time: 17:35:01

End Time:

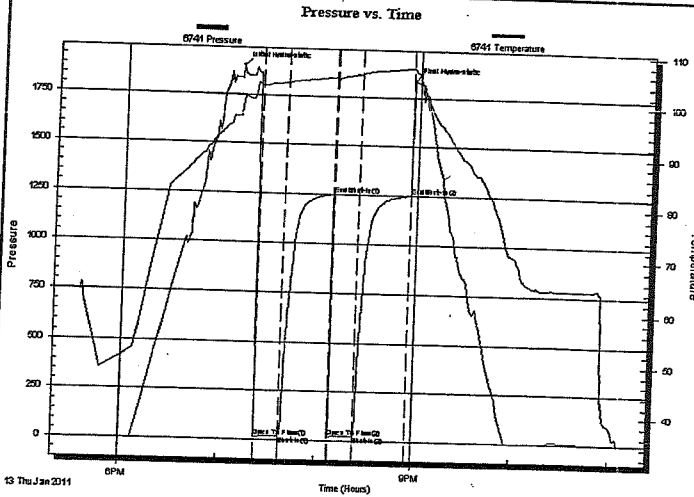
23:07:00

Last Calib.: 2011.01.13

Time On Btm: 2011.01.13 @ 19:10:30

Time Off Btm: 2011.01.13 @ 20:56:30

**TEST COMMENT:** IF: Weak surface blow, built to 1/2 in. over 15 mins.  
IS: No blow back over 30 mins.  
FF: No blow over 15 mins.  
FS: No blow back over 30 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.90	99.03	Initial Hydro-static
12	16.48	103.10	Open To Flow (1)
28	21.16	103.82	Shut-In(1)
58	1247.67	105.05	End Shut-In(1)
58	22.33	104.39	Open To Flow (2)
73	27.47	105.74	Shut-In(2)
105	1247.17	107.01	End Shut-In(2)
106	1837.28	106.81	Final Hydro-static

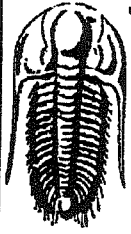
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud with oil specs	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040036

DST#: 3

ATTN: Clayton Erickson

Test Start: 2011.01.13 @ 17:35:00

### Tool Information

Drill Pipe:	Length: 3778.00 ft	Diameter: 3.80 inches	Volume: 53.00 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 53.00 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3826.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3803.00	
Hydraulic tool	5.00			3808.00	
Jars	5.00			3813.00	
Safety Joint	3.00			3816.00	
Packer	5.00			3821.00	28.00 Bottom Of Top Packer
Packer	5.00			3826.00	
Stubb	1.00			3827.00	
Recorder	0.00	6752	Inside	3827.00	
Recorder	0.00	6741	Inside	3827.00	
Perforations	29.00			3856.00	
Bullnose	3.00			3859.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040036

DST#: 3

ATTN: Clayton Erickson

Test Start: 2011.01.13 @ 17:35:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	mud with oil specs	0.000

Total Length: 15.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

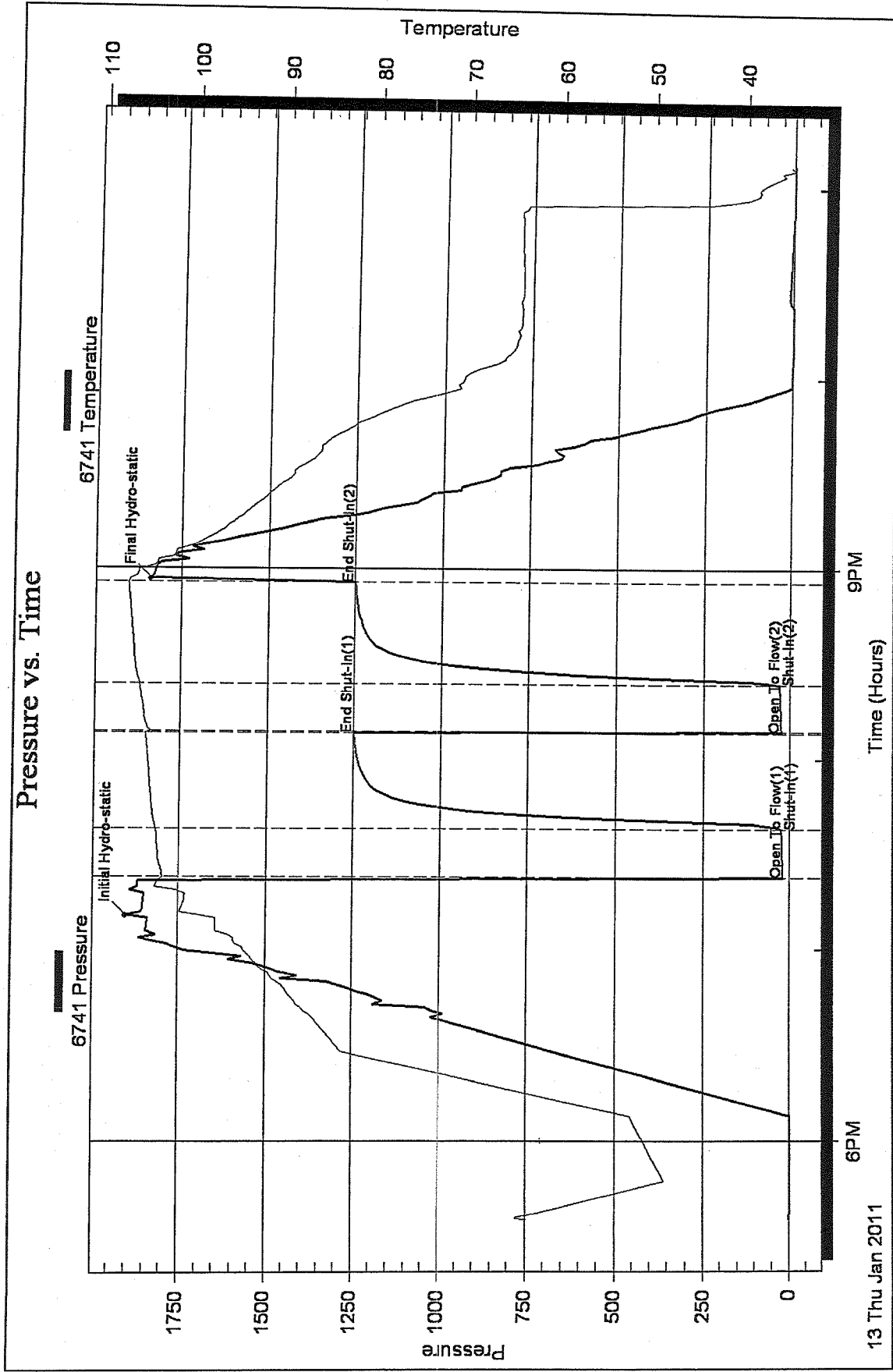
Inside

Maralex Resources

6 7 25w Gramh KS

DST Test Number: 3

### Pressure vs. Time

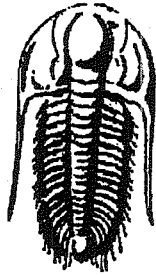


13 Thu Jan 2011

6PM

9PM

Time (Hours)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Maralex Resoures**

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

**6 7 25w Gramh KS**

**Heskett #6-1**

Start Date: 2011.01.14 @ 06:15:00

End Date: 2011.01.14 @ 11:36:00

Job Ticket #: 040037      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Maralex Resoures

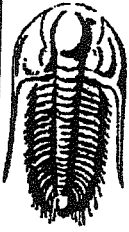
Heskett #6-1

6 7 25w Gramh KS

DST # 4

LKC-K

2011.01.14



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Maralex Resources

P.O. Box 338  
Inganaio CO 81137

ATTN: Clayton Erickson

Heskett #6-1

6 7 25w Gramh KS

Job Ticket: 040037 DST#: 4

Test Start: 2011.01.14 @ 06:15:00

**GENERAL INFORMATION:**

Formation: LKC-K  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:57:00  
 Time Test Ended: 11:36:00  
 Interval: 3855.00 ft (KB) To 3880.00 ft (KB) (TVD)  
 Total Depth: 3880.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 36

Reference Elevations: 2566.00 ft (KB)  
 2562.00 ft (CF)  
 KB to GR/CF: 4.00 ft

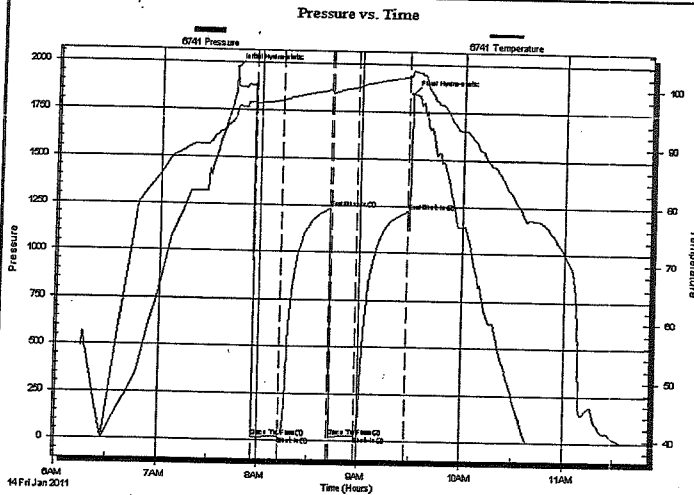
**Serial #: 6741**

Inside

Press@RunDepth: 26.66 psig @ 3856.00 ft (KB)  
 Start Date: 2011.01.14 End Date: 2011.01.14  
 Start Time: 06:15:01 End Time: 11:36:00

Capacity: 8000.00 psig  
 Last Calib.: 2011.01.14  
 Time On Btm: 2011.01.14 @ 07:45:00  
 Time Off Btm: 2011.01.14 @ 09:29:30

**TEST COMMENT:** IF: Weak surface blow over 15 mins.  
 IS: No blow back over 30 mins.  
 FF: Weak surface after 10 mins, never built over 15 mins.  
 FS: No blow back over 30 mins.



**PRESSURE SUMMARY**

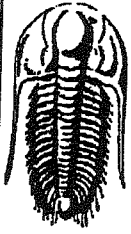
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.38	95.06	Initial Hydro-static
12	16.19	96.95	Open To Flow (1)
28	21.11	97.75	Shut-In(1)
57	1231.34	99.66	End Shut-In(1)
58	22.53	98.98	Open To Flow (2)
73	26.66	100.16	Shut-In(2)
103	1220.80	102.11	End Shut-In(2)
105	1845.37	103.17	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil specs	0.14

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040037

DST#: 4

ATTN: Clayton Erickson

Test Start: 2011.01.14 @ 06:15:00

## Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3855.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3832.00	
Hydraulic tool	5.00			3837.00	
Jars	5.00			3842.00	
Safety Joint	3.00			3845.00	
Packer	5.00			3850.00	28.00 Bottom Of Top Packer
Packer	5.00			3855.00	
Stubb	1.00			3856.00	
Recorder	0.00	6752	Inside	3856.00	
Recorder	0.00	6741	Inside	3856.00	
Perforations	21.00			3877.00	
Bullnose	3.00			3880.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Maralex Resources

Heskett #6-1

P.O. Box 338  
Inganaio CO 81137

6 7 25w Gramh KS

Job Ticket: 040037

DST#: 4

ATTN: Clayton Erickson

Test Start: 2011.01.14 @ 06:15:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	mud with oil specs	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

Inside Maralex Resources

6725w Gramh KS

DST Test Number: 4

### Pressure vs. Time

