



KANSAS CORPORATION COMMISSION 1090712  
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 # \_\_\_\_\_

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: \_\_\_\_\_



1090712

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
<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

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
-----------------------------------	-----------	---------	-------------	---------------	---------

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: _____ _____
---	---	--

# ALLIED CEMENTING CO., LLC. 034651

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
RUSSELL

DATE	5-21-12	SEC	TS	TWE	12	RANGE	13	CALLED OUT		ON LOCATION		JOB START	6:30 PM	JOB FINISH	7 PM
LEASE	SMALL	WELL #	2	LOCATION	BUNKER HILL	9.5 <sup>th</sup>				COUNTY	Russell	STATE	KS		
OLD OR NEW (Circle one)															

CONTRACTOR	Shield #2	OWNER	
TYPE OF JOB	PTA	CEMENT	
HOLE SIZE	7 7/8" T.D.	AMOUNT ORDERED	180 SK @ 60% 480 GAL
CASING SIZE	8 7/8" DEPTH		1/4" PEO-SEAL
TUBING SIZE	4 1/2" DEPTH		
DRILL PIPE	4 1/2" DEPTH 770'		
TOOL		COMMON	108 @ 16.25 1755.00
PRES. MAX		POZMIX	72 @ 8.50 612.00
MEAS. LINE		GEL	6 @ 21.25 127.50
CEMENT LEFT IN CSG.	180 SK	CHLORIDE	@
PERFS.		ASC	PEO-SEAL 50 @ 2.70 135.00
DISPLACEMENT			
EQUIPMENT			
PUMP TRUCK	CEMENTER Bob Smith	HANDLING	188 @ 2.25 423.00
#	417	HELPER	woodly
BULK TRUCK		MILEAGE	19 x 188 x .11 392.92
#	410	DRIVER	cody
BULK TRUCK			
#		DRIVER	
		TOTAL	3445.42

REMARKS:  
P1 -- 770 FT = 25 SK  
P2 -- 380 FT = 100 SK  
P3 -- 40 FT = 10 SK  
RAT -- 30 SK  
MONSE -- 15 SK

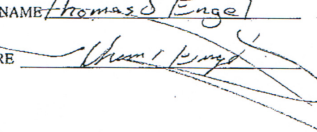
CHARGE TO: BRUNNGARDT OIL  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE		
DEPTH OF JOB	770 FT	
PUMP TRUCK CHARGE		1250.00
EXTRA FOOTAGE	@	
MILEAGE	H 19 @ 7.00	133.00
MANIFOLD	@	
	LdV m 19 @ 4.00	76.00
TOTAL		1459.00

PLUG & FLOAT EQUIPMENT		
8 7/8 wooden plug	= 1 @	64.00
	@	
	@	
TOTAL		64.00

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

SALES TAX (if Any) 42.37  
TOTAL CHARGES 4968.42  
DISCOUNT 20/50 1174.26 IF PAID IN 30 DAYS

PRINTED NAME Thomas S Engel  
SIGNATURE 

BS  
5-21-12

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY BRUNGARDT OIL & LEASING, INC.

LEASE SMALL #2

FIELD \_\_\_\_\_

LOCATION W/2 NE NE 5E

SEC 15 TWSP 12S RGE 13W

COUNTY RUSSELL STATE KANSAS

CONTRACTOR SHIELDS OIL PRODUCERS, INC.

SPUD 5-9-12 COMP 5-21-12

RTD 3038 (-1321) LTD \_\_\_\_\_

MUD UP 2500' TYPE MUD CHEMICAL

### ELEVATIONS

KB 1717'

DF \_\_\_\_\_

GL 1712'

Measurements Are All  
From Kelly Busking

CASING  
SURFACE 8 5/8" @ 219'  
PRODUCTION NONE

ELECTRICAL SURVEYS  
NONE

SAMPLES SAVED FROM 2500' TO RTD

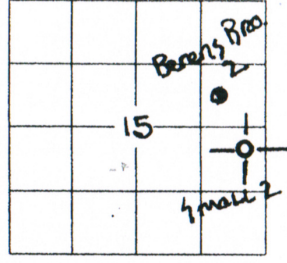
DRILLING TIME KEPT FROM 2500' TO RTD

SAMPLES EXAMINED FROM 2600' TO RTD

GEOLOGICAL SUPERVISION FROM 2600' TO RTD

GEOLOGIST ON WELL BRAD J. HUTCHISON

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		752 (+965)
TOPEKA		2638 (-921)
HEEBNER		2870 (-1153)
TORONTO		2888 (-1171)
LANSDALE		2925 (-1208)



REMARKS It was recommended based on the low structural position and the two (2) negative drill stem tests that the Small #2 be plugged and abandoned at a total rotary depth of 3038 (-1321).

Respectfully submitted,  
*Brad J. Hutchison*  
Brad J. Hutchison

### DAILY PROGRESS

5-9-12 MERV  
5-10-12 901'  
5-12-12 DOWN MUD PUMP REPAIR  
5-13-12-12 1406'  
5-18-12 2170'  
5-19-12 2915'  
5-20-12 3038'  
5-21-12

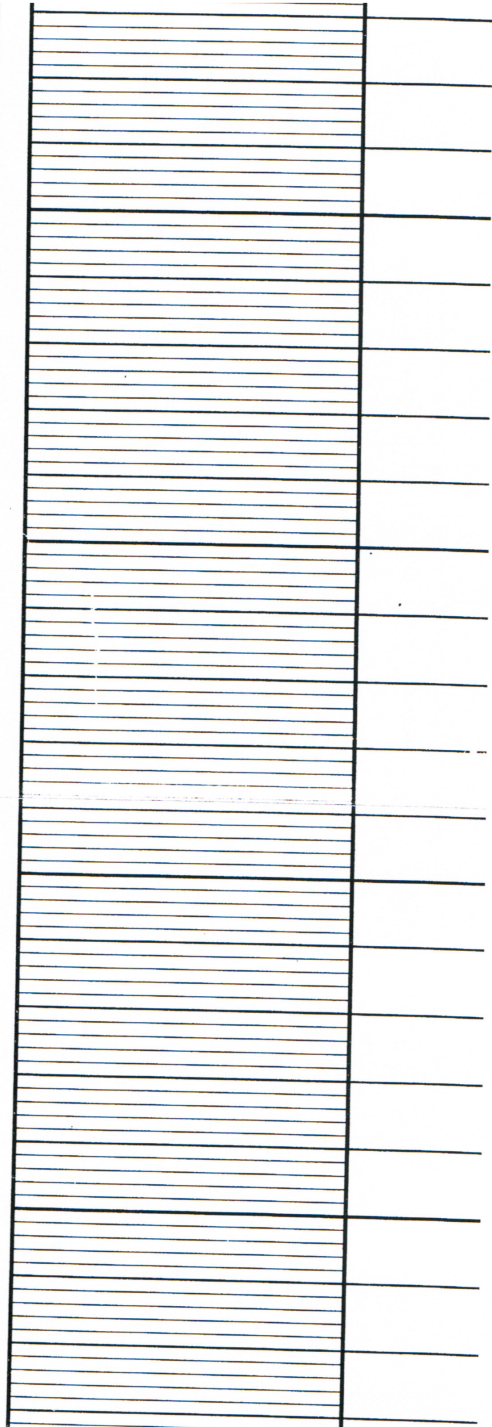
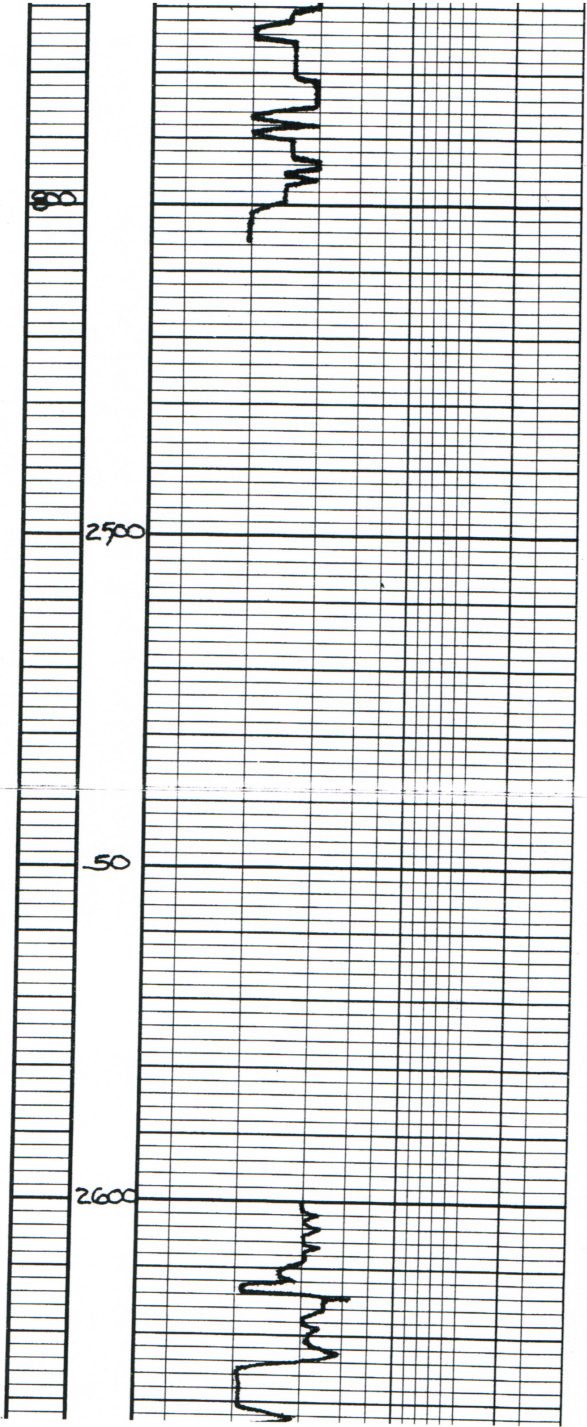
SURVEY: DEPTH: DEVIATION:  
222' 1/4"  
2980' 0"

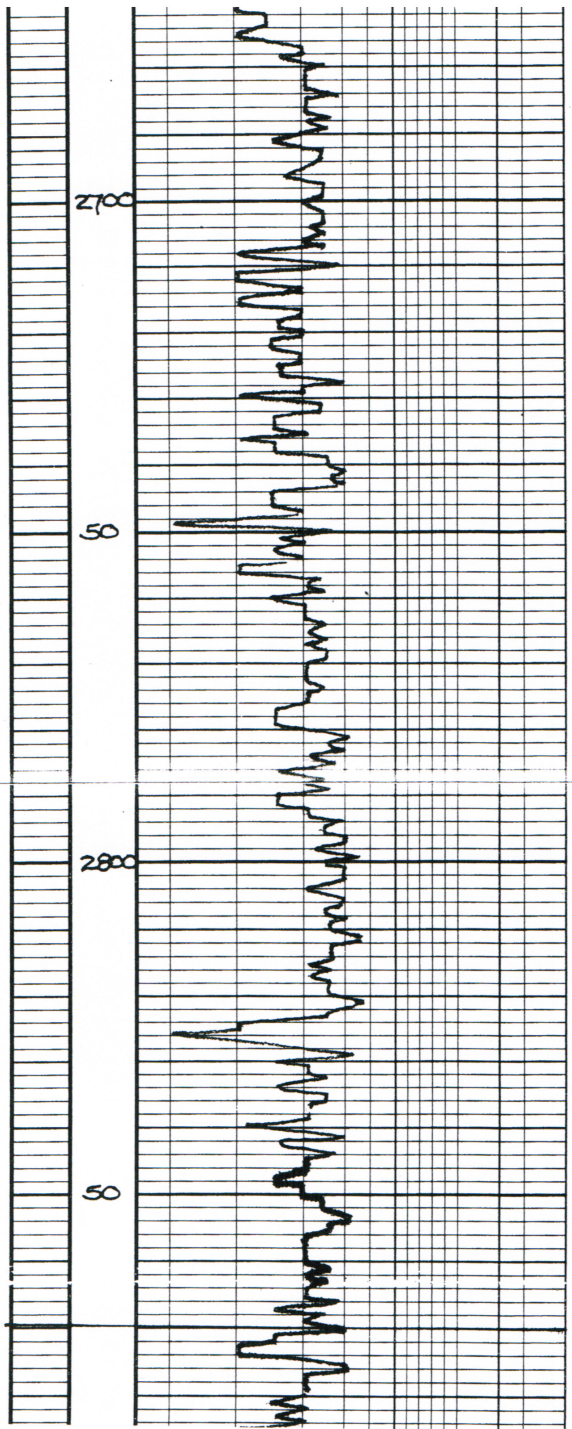
### LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool.Lime
- Chert
- Dolomite

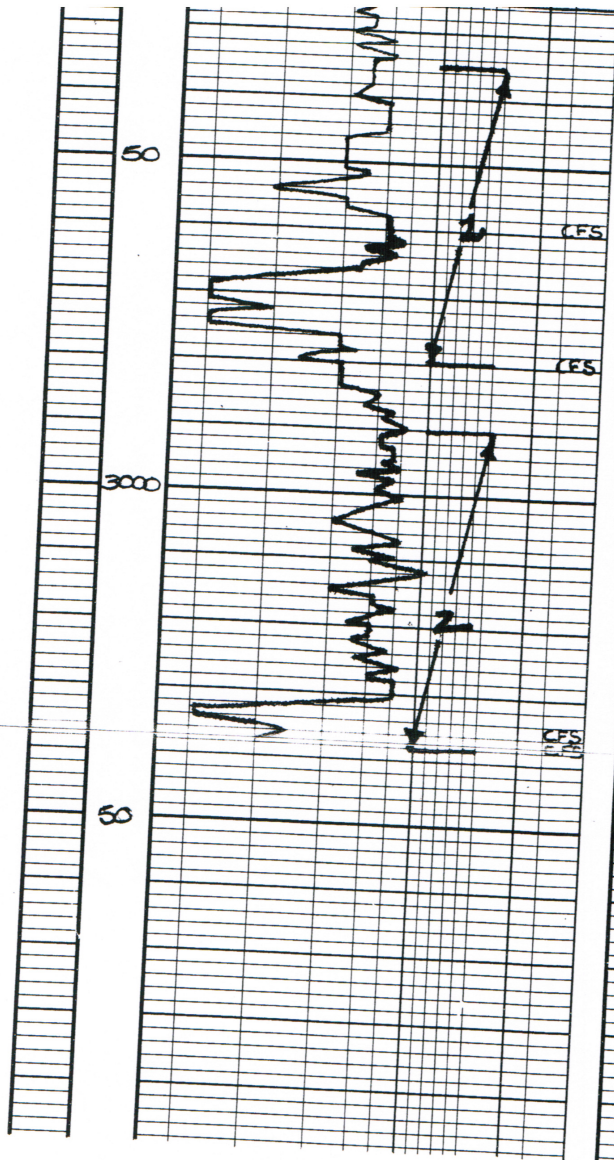
DRILLING TIME

GY





SH blk carb.,  
 LB GRN-WHT HIGHLY  
 CHALKY SH FOSS.,  
 LB A.A.,  
 LB LT GRV-BUFF FAXL  
 OOL-FOSS NS  
 LB WHT CHALKY  
 LB BUFF FAXL DSE  
 FOSS NS  
**HEBNER 2870 (1153)**  
 SH blk carb.,  
 SH pale grn. lt gray



LANSING 2925 (-1208)

L5 buff-ly GRY DSE  
 Δy Foss. -NS-

L7 A.A. / MUD Vln

sh grn gumbo DST: 1. 29

L5 WHT-CRM ool-Foss-ool 30.30.  
 SCLD FR. ool-FossCast p/ IF. 1 1/2"

TR V. sh STD NEO FF. 1"

TR ool Δ = charcoal col REC. 45'

L5 LT GRN-buff FNVL ool 3' CO

ool ool 1/2 SCLD FR L7 75' SOCM

BRN STR-bat SCLD (assy) 12.5' water

L7 GRY DSE FP (24-58)

sh blk carb. HSH (1420)

sh gray gumbo



CHART F

L5 med grn ool-Foss

L5 WHT-CRM lithology

DST: 2 2990.

30.30.60

IF. 3"

FF. SURF. T1

REC. 75' MW

OF OIL

12.5' WATER

SIP (242-241)

FP (27-69) (1)

HSH (1454-1)

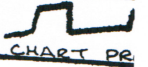


CHART PR

# ALLIED OIL & GAS SERVICES, LLC 056111

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell

DATE 5-11-18	SEC 15	TWP 12	RANGE 13	CALLED OUT	ON LOCATION	JOB START 7:00	JOB FINISH 4:00
LEASE Small	WELL # 2	LOCATION Butler Hill N8-W method of			COUNTY Russell	STATE KS	
OLD OR <input checked="" type="radio"/> NEW (Circle one) w/ Nints & Bathy tank							

CONTRACTOR <u>Stelds</u>	OWNER _____
TYPE OF JOB <u>Surfaze</u>	CEMENT
HOLE SIZE <u>12 1/2</u>	T.D. <u>222</u>
CASING SIZE <u>8 1/2</u>	DEPTH <u>219</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PREL. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT <u>15</u>
CEMENT LEFT IN CSG. <u>15</u>	COMMON <u>170</u> @ <u>16.25</u> <u>2762.50</u>
PERES. _____	POZMIX @ _____
DISPLACEMENT <u>12.5 bbl</u>	GEL <u>3</u> @ <u>21.25</u> <u>63.75</u>
	CHLORIDE <u>6</u> @ <u>58.20</u> <u>349.20</u>
	ASC @ _____

EQUIPMENT			
PUMP TRUCK # <u>409</u>	CEMENTER <u>Todd Hobbs</u>	HANDLING <u>179</u>	@ <u>2.25</u> <u>402.75</u>
BULK TRUCK # <u>410</u>	HELPER <u>Tom</u>	MILEAGE <u>3401</u>	@ <u>.11</u> <u>374.11</u>
BULK TRUCK # <u>410</u>	DRIVER <u>Robert Y.</u>	TOTAL	<u>3952.31</u>
BULK TRUCK # _____	DRIVER _____		

REMARKS:  
 run bit, establish circulation  
 mix 170 gr Class A, method of  
 replace plug, Displacement 12.5 bbl  
 Set well in plug down at 4:15  
 cement did circulate to surface  
 Thanks

CHARGE TO: Bruggardt Oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE	
DEPTH OF JOB	_____
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>MILW 19</u>	@ <u>7.00</u> <u>133.00</u>
MANIFOLD <u>MILW 19</u>	@ <u>4.00</u> <u>76.00</u>
TOTAL	<u>1334.00</u>

PLUG & FLOAT EQUIPMENT	
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL	_____

To: Allied Oil & Gas Services, 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 Thomas Engert

SIGNATURE Thomas Engert

SALES TAX (If Any) 263.56

TOTAL CHARGES 5286.31

DISCOUNT 1232.19 IF PAID IN 30 DAYS





## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871  
Russell Ks 67665-1731

ATTN: Gary Brungardt

### **Small #2**

#### **15-12s-13w Russell,KS**

Start Date: 2012.05.20 @ 15:00:06

End Date: 2012.05.20 @ 21:06:00

Job Ticket #: 47035                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.23 @ 08:48:58



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47035

**DST#: 1**

ATTN: Gary Brungardt

Test Start: 2012.05.20 @ 15:00:06

## GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:35:31

Time Test Ended: 21:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 64

**Interval: 2935.00 ft (KB) To 2980.00 ft (KB) (TVD)**

Reference Elevations: 1717.00 ft (KB)

Total Depth: 2980.00 ft (KB) (TVD)

1712.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 117.70 psig @ 2945.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.20

End Date:

2012.05.20

Last Calib.: 2012.05.20

Start Time: 15:00:06

End Time:

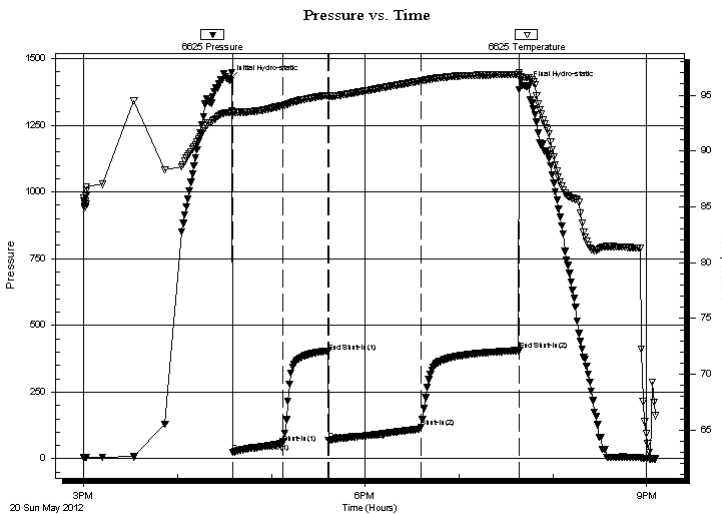
21:06:00

Time On Btm: 2012.05.20 @ 16:33:01

Time Off Btm: 2012.05.20 @ 19:42:30

**TEST COMMENT:** 30-IFP-w k to a fr bl 1/2" to 4 1/2" bl  
30-ISIP-no bl  
60-FFP-w k bl 1/4" to 1" bl  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1420.05	93.46	Initial Hydro-static
3	24.14	93.49	Open To Flow (1)
34	58.03	94.05	Shut-In(1)
63	401.37	94.99	End Shut-In(1)
64	69.24	94.91	Open To Flow (2)
123	117.70	96.25	Shut-In(2)
185	405.64	96.85	End Shut-In(2)
190	1397.10	96.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45'GIP	0.00
3.00	CO	0.02
75.00	SOCMW 2%O30%M68%W	0.53
125.00	Water w/show of oil	0.89

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc  
PO Box 871  
Russell Ks 67665-1731  
ATTN: Gary Brungardt

**15-12s-13w Russell,KS**  
**Small #2**  
Job Ticket: 47035 **DST#: 1**  
Test Start: 2012.05.20 @ 15:00:06

## GENERAL INFORMATION:

Formation: **LKC B-C**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:35:31  
Time Test Ended: 21:06:00  
**Interval: 2935.00 ft (KB) To 2980.00 ft (KB) (TVD)**  
Total Depth: 2980.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 64  
Reference Elevations: 1717.00 ft (KB)  
1712.00 ft (CF)  
KB to GR/CF: 5.00 ft

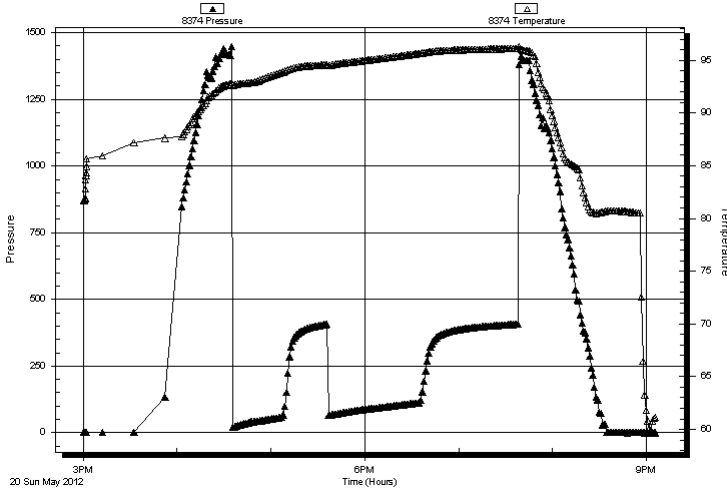
## Serial #: 8374 Outside

Press @ Run Depth: psig @ 2945.00 ft (KB)  
Start Date: 2012.05.20 End Date: 2012.05.20  
Start Time: 15:00:28 End Time: 21:06:22

Capacity: 8000.00 psig  
Last Calib.: 2012.05.20  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30-IFP-w k to a fr bl 1/2" to 4 1/2" bl  
30-ISIP-no bl  
60-FFP-w k bl 1/4" to 1" bl  
60-FSIP-no bl

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45'GIP	0.00
3.00	CO	0.02
75.00	SOCMW 2%O30%M68%W	0.53
125.00	Water w/show of oil	0.89

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47035

**DST#: 1**

ATTN: Gary Brungardt

Test Start: 2012.05.20 @ 15:00:06

## Tool Information

Drill Pipe:	Length: 2454.00 ft	Diameter: 3.80 inches	Volume: 34.42 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 470.00 ft	Diameter: 2.70 inches	Volume: 3.33 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 37.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	2935.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	66.00 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			2915.00	
Shut In Tool	5.00			2920.00	
Hydraulic tool	5.00			2925.00	
Packer	5.00			2930.00	21.00 Bottom Of Top Packer
Packer	5.00			2935.00	
Stubb	1.00			2936.00	
Perforations	9.00			2945.00	
Recorder	0.00	6625	Inside	2945.00	
Recorder	0.00	8374	Outside	2945.00	
Blank Spacing	33.00			2978.00	
Bullnose	2.00			2980.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47035

**DST#: 1**

ATTN: Gary Brungardt

Test Start: 2012.05.20 @ 15:00:06

## 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:

98000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	45'GIP	0.000
3.00	CO	0.021
75.00	SOCMW 2%O30%M68%W	0.531
125.00	Water w/show of oil	0.885

Total Length: 203.00 ft

Total Volume: 1.437 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07 @ 75F

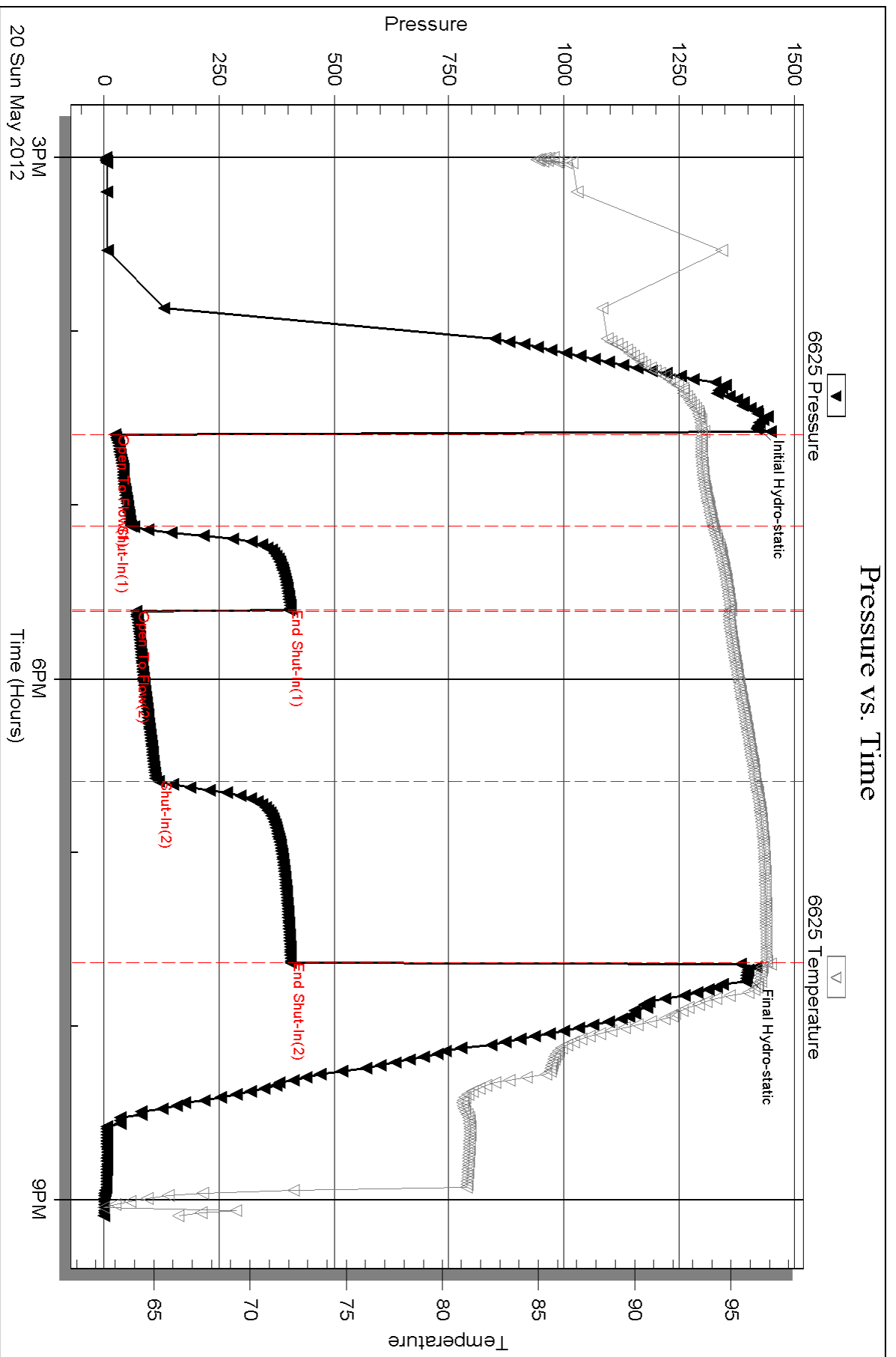
Serial #: 6625

Inside

Brungardt Oil & Leasing Inc

Small #2

DST Test Number: 1

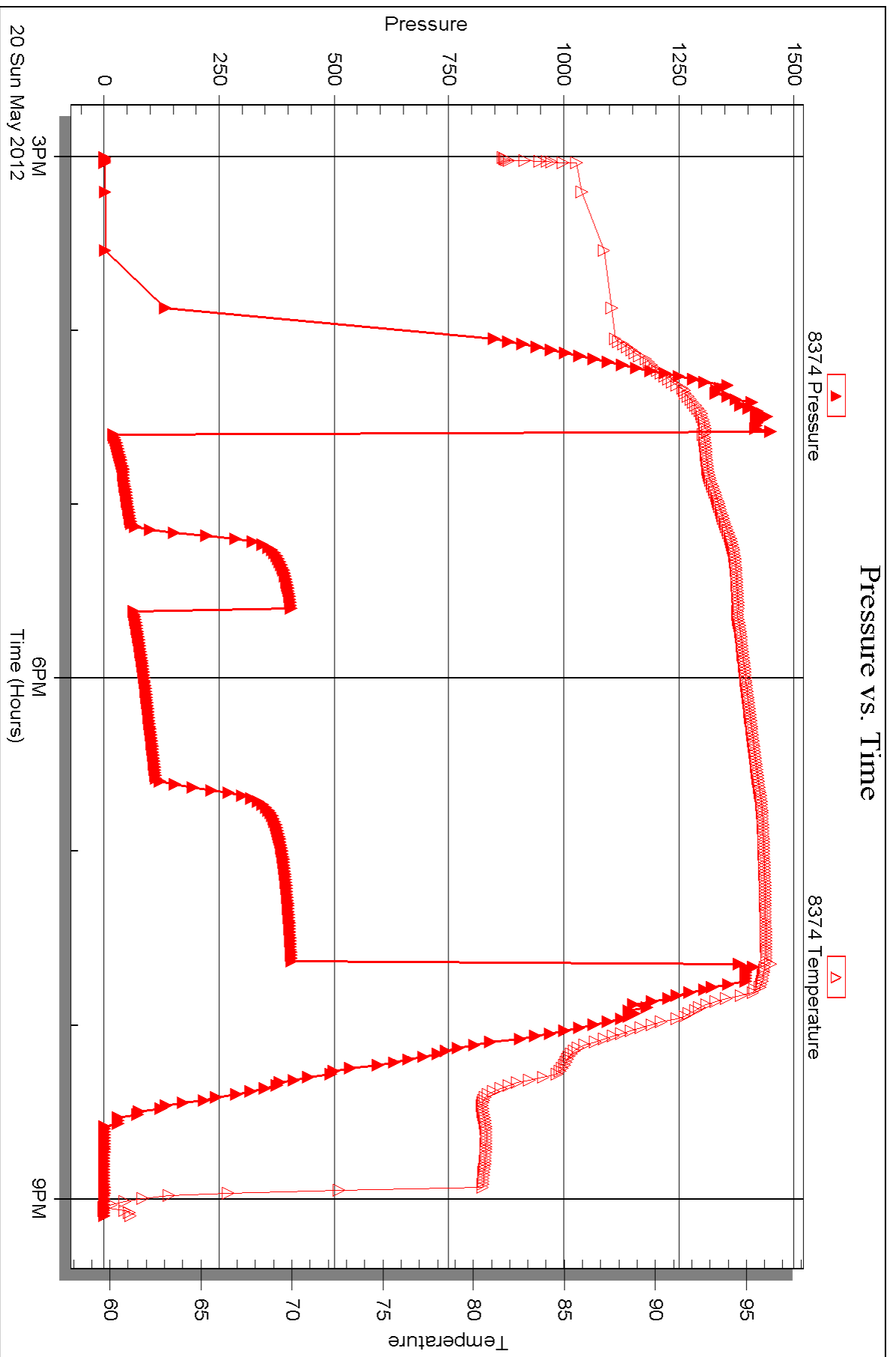


Serial #: 8374

Outside Brungardt Oil & Leasing Inc

Small #2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47035

Printed: 2012.05.23 @ 08:49:01



## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871  
Russell Ks 67665-1731

ATTN: Gary Brungardt

### **Small #2**

#### **15-12s-13w Russell,KS**

Start Date: 2012.05.21 @ 05:50:21

End Date: 2012.05.21 @ 11:41:15

Job Ticket #: 47036                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.23 @ 08:47:35





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47036

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2012.05.21 @ 05:50:21

## GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:31:46

Time Test Ended: 11:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 64

**Interval: 2990.00 ft (KB) To 3038.00 ft (KB) (TVD)**

Reference Elevations: 1717.00 ft (KB)

Total Depth: 3038.00 ft (KB) (TVD)

1712.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 122.64 psig @ 3003.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.21 End Date: 2012.05.21

Last Calib.: 2012.05.21

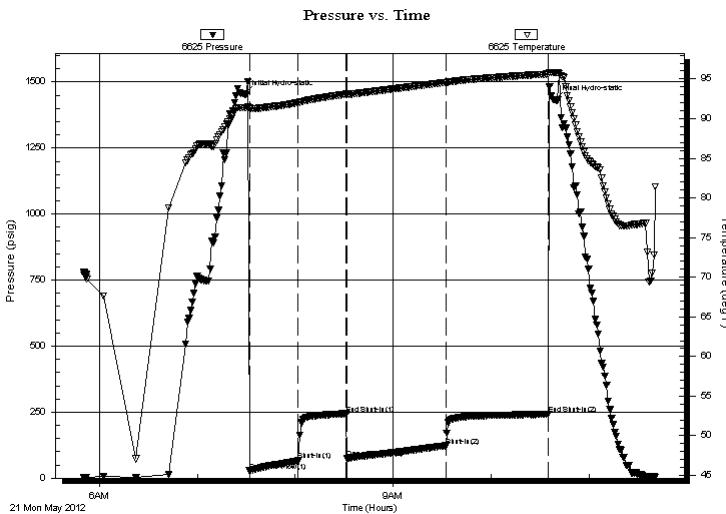
Start Time: 05:50:21 End Time: 11:41:15

Time On Btm: 2012.05.21 @ 07:28:46

Time Off Btm: 2012.05.21 @ 10:39:15

**TEST COMMENT:** 30-IFP-w k bl 1/2" to 3" bl  
30-ISIP-no bl  
60-FFP-w k bl surface to 1/2" bl  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1454.03	91.40	Initial Hydro-static
3	27.25	91.32	Open To Flow (1)
33	65.79	92.02	Shut-In(1)
63	242.61	93.07	End Shut-In(1)
63	73.88	93.05	Open To Flow (2)
124	122.64	94.56	Shut-In(2)
186	241.32	95.61	End Shut-In(2)
191	1432.78	95.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	MW w/show of oil	0.53
125.00	Water	0.89

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc  
 PO Box 871  
 Russell Ks 67665-1731  
 ATTN: Gary Brungardt

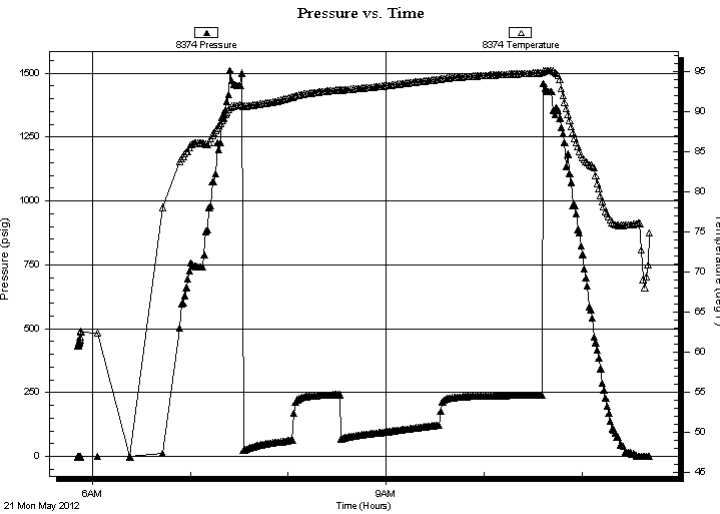
**15-12s-13w Russell,KS**  
**Small #2**  
 Job Ticket: 47036      **DST#: 2**  
 Test Start: 2012.05.21 @ 05:50:21

## GENERAL INFORMATION:

Formation: <b>LKC F-G</b>		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)	Tester: Ray Schwager
Time Tool Opened: 07:31:46		Unit No: 64
Time Test Ended: 11:41:15		Reference Elevations: 1717.00 ft (KB)
<b>Interval: 2990.00 ft (KB) To 3038.00 ft (KB) (TVD)</b>		1712.00 ft (CF)
Total Depth: 3038.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

<b>Serial #: 8374</b>	<b>Outside</b>		
Press @ Run Depth:                      psig @	3003.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2012.05.21	End Date: 2012.05.21	Last Calib.:	2012.05.21
Start Time: 05:51:01	End Time: 11:41:55	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** 30-IFP-w k bl 1/2" to 3" bl  
 30-ISIP-no bl  
 60-FFP-w k bl surface to 1/2" bl  
 60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	MW w/show of oil	0.53
125.00	Water	0.89

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47036

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2012.05.21 @ 05:50:21

## Tool Information

Drill Pipe:	Length: 2518.00 ft	Diameter: 3.80 inches	Volume: 35.32 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 470.00 ft	Diameter: 2.70 inches	Volume: 3.33 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 38.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	2990.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	69.00 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			2970.00	
Shut In Tool	5.00			2975.00	
Hydraulic tool	5.00			2980.00	
Packer	5.00			2985.00	21.00 Bottom Of Top Packer
Packer	5.00			2990.00	
Stubb	1.00			2991.00	
Perforations	12.00			3003.00	
Recorder	0.00	6625	Inside	3003.00	
Recorder	0.00	8374	Outside	3003.00	
Blank Spacing	33.00			3036.00	
Bullnose	2.00			3038.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**15-12s-13w Russell,KS**

PO Box 871  
Russell Ks 67665-1731

**Small #2**

Job Ticket: 47036

**DST#: 2**

ATTN: Gary Brungardt

Test Start: 2012.05.21 @ 05:50:21

## 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:

85000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	MW w/show of oil	0.531
125.00	Water	0.885

Total Length: 200.00 ft      Total Volume: 1.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08 @ 75F

Serial #: 6625

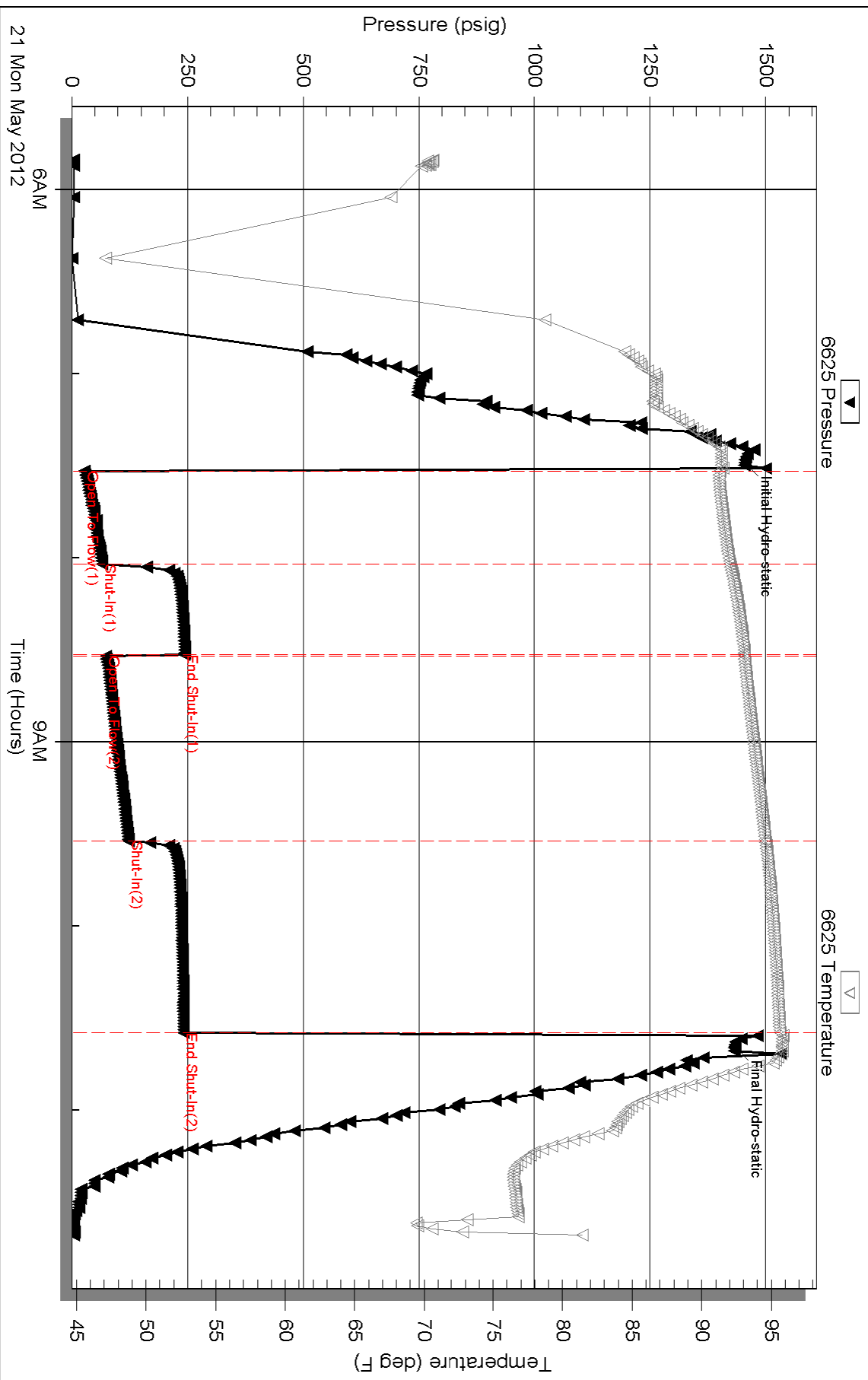
Inside

Brungardt Oil & Leasing Inc

Small #2

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47036

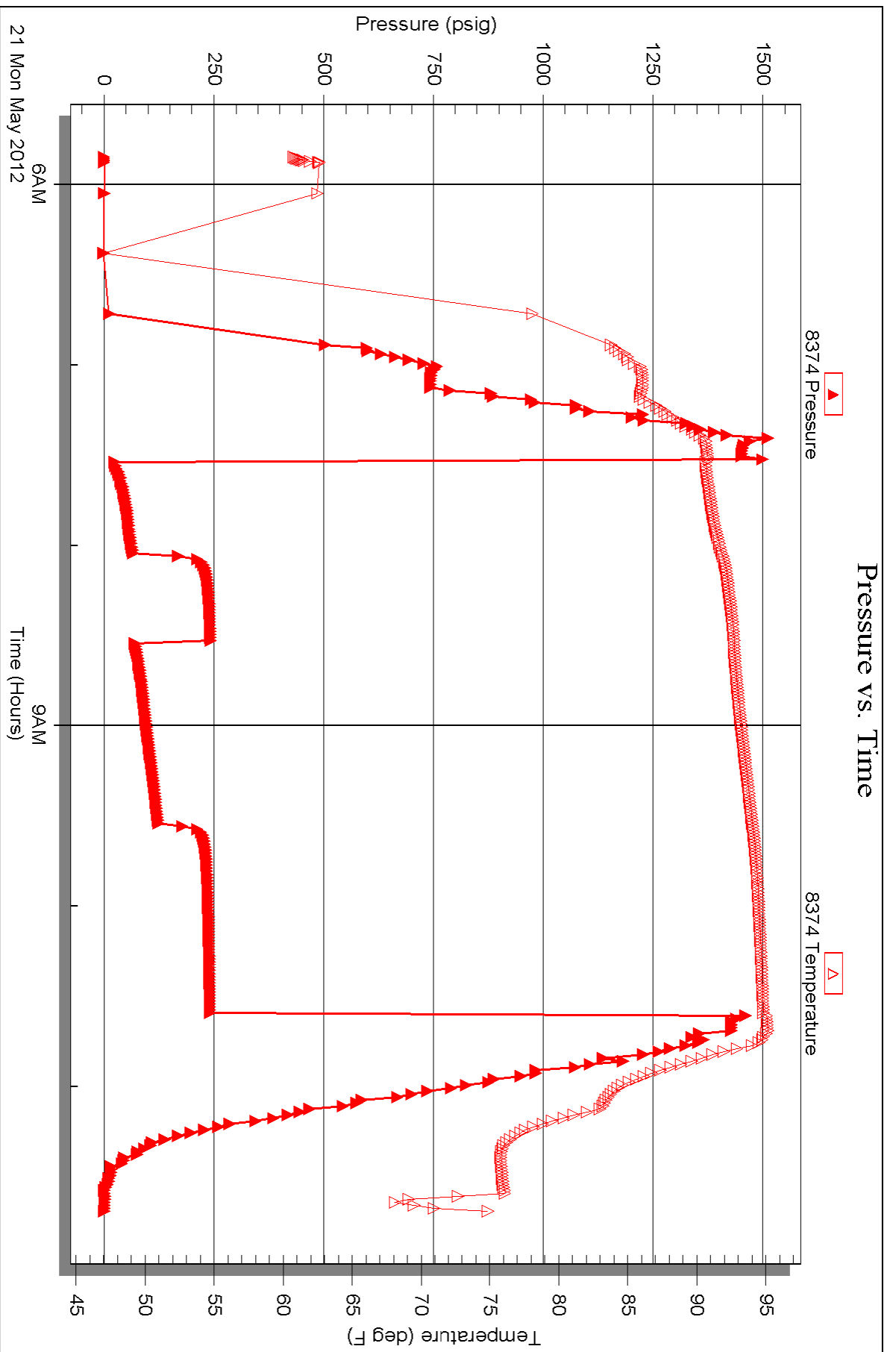
Printed: 2012.05.23 @ 08:47:37

Serial #: 8374

Outside Brungardt Oil & Leasing Inc

Small #2

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47035

4/10

Well Name & No. SMALL #2 Test No. 1 Date 5-20-12  
 Company BRUNGARDT OIL & LEASING INC Elevation 1717 KB 1712 GL  
 Address 529 E. 14<sup>TH</sup> PO BOX 871 RUSSELL, K 67665-1731  
 Co. Rep / Geo. BRAD HUTCHISON Rig SHIELDS RIG 1  
 Location: Sec. 15 Twp. 12<sup>S</sup> Rge. 13<sup>W</sup> Co. Russell State K

Interval Tested 2935-2980 Zone Tested LKC B-C  
 Anchor Length 45 Drill Pipe Run 2454 Mud Wt. 9.2  
 Top Packer Depth 2930 Drill Collars Run 4 Vis 52  
 Bottom Packer Depth 2935 Wt. Pipe Run 470 WL 8  
 Total Depth 2980 Chlorides 7000 ppm System LCM -

Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4 1/2" BLOW  
ISIP - NO BLOW  
FFP - WEAK BLOW THRU-OUT 1/4" TO 1" BLOW  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>GIP</u>				
<u>3</u>	<u>CO</u>				
<u>75</u>	<u>50 CMW</u>		<u>2</u>	<u>68</u>	<u>30</u>
<u>125</u>	<u>WATER w/slow of oil</u>				

Rec Total 203 BHT \_\_\_\_\_ Gravity - API RW .07 @ 75 °F Chlorides 98000 ppm

(A) Initial Hydrostatic 1420  Test 1150 T-On Location 1400  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 1500  
 (C) First Final Flow 58  Safety Joint \_\_\_\_\_ T-Open 1640  
 (D) Initial Shut-In 401  Circ Sub \_\_\_\_\_ T-Pulled 1940  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 2106  
 (F) Second Final Flow 117  Mileage 88 RT 136.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 405  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1397  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 1286.40  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1286.40

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER THANK YOU  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47036

Well Name & No. Small #2 Test No. 2 Date 5-21-12  
 Company BRUNGARDT OIL + Leasing Inc Elevation 1717 KB 1712 GL  
 Address 529 E. 14<sup>th</sup> PO Box 871 Russell Mo 67665-0731  
 Co. Rep / Geo. BRAD HUTCHISON Rig Shields rig 1  
 Location: Sec. 15 Twp. 12<sup>s</sup> Rge. 13<sup>w</sup> Co. Russell State K

Interval Tested 2990 - 3038 Zone Tested LKC F-6  
 Anchor Length 48 Drill Pipe Run 2518 Mud Wt. 9  
 Top Packer Depth 2985 Drill Collars Run - Vis 50  
 Bottom Packer Depth 2990 Wt. Pipe Run 470 WL 8  
 Total Depth 3038 Chlorides 7000 ppm System LCM -

Blow Description I FP - WEAK Blow 1/2" To 3" Blow  
ISIP - NO BLOW  
FFP - WEAK Blow surface To 1/2" Blow  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>Feet of MW</u>				
<u>125</u>	<u>Feet of WATER</u>				

Rec Total 200 BHT Gravity - API RW .08 @ 75 °F Chlorides 85000 ppm

(A) Initial Hydrostatic <u>1454</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0530</u>
(B) First Initial Flow <u>27</u>	<input type="checkbox"/> Jars	T-Started <u>0550</u>
(C) First Final Flow <u>65</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0730</u>
(D) Initial Shut-In <u>242</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1030</u>
(E) Second Initial Flow <u>73</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1141</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>88 RT</u> 136.40	Comments <u>Loaded Tool 1215</u>
(G) Final Shut-In <u>241</u>	<input type="checkbox"/> Sampler	<u>5-21-12</u>
(H) Final Hydrostatic <u>1432</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1286.40</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1286.40</u>	

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.