



KANSAS CORPORATION COMMISSION 1060310
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: _____



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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	A-R Unit 1
Doc ID	1060310

All Electric Logs Run

MICRORESISTIVITY
DUAL COMPENSATED POROSITY
DUAL INDUCTION
COMPUTER PROCESSED INTERPRETATION
SECTOR BOND LOG

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	A-R Unit 1
Doc ID	1060310

Tops

Name	Top	Datum
TOP ANHYDRRITE	938	+984
BASE ASNHYDRITE	971	+951
TOPEKA	2850	-928
HEEBNER	3079	-1157
TORONTO	3097	-1175
DOUGLAS	3112	-1190
LANSING	3142	-1220
STARK	3336	-1414
BKC	3370	-1448
ARBUCKLE	3396	-1474

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 27, 2011

LEROY HOLT
Russell Oil, Inc.
PO BOX 8050
EDMOND, OK 73083

Re: ACO1
API 15-009-25534-00-00
A-R Unit 1
NW/4 Sec.01-16S-15W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
LEROY HOLT



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc.

A-R Unit #1

PO Box 8050
Edmond, OK. 73083

1-16s-15w-Barton

ATTN: Steve Murphy

Job Ticket: 42850

DST#: 1

Test Start: 2011.04.25 @ 08:17:30

GENERAL INFORMATION:

Formation: **"B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:30

Time Test Ended: 13:21:15

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3156.00 ft (KB) To 3186.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3186.00 ft (KB) (TVD)

1916.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 18.51 psig @ 3158.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.25

End Date:

2011.04.25

Last Calib.:

2011.04.25

Start Time: 08:17:32

End Time:

13:21:15

Time On Btm:

2011.04.25 @ 10:20:15

Time Off Btm:

2011.04.25 @ 11:49:15

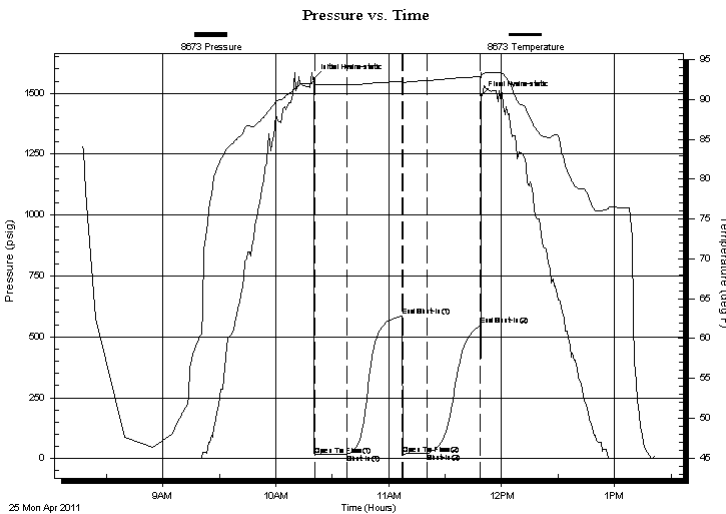
TEST COMMENT: IFP-Weak Blow ,Built to 3/4"

ISI-Dead

FFP-Weak Surface Blow

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.25	92.23	Initial Hydro-static
1	15.95	91.72	Open To Flow (1)
18	18.51	91.86	Shut-In(1)
47	584.65	92.26	End Shut-In(1)
48	19.48	92.01	Open To Flow (2)
61	20.62	92.42	Shut-In(2)
89	546.67	92.85	End Shut-In(2)
89	1490.58	93.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud W/Oil Spots, less than 1%O	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc.

A-R Unit #1

PO Box 8050
Edmond, OK. 73083

1-16s-15w-Barton

Job Ticket: 42850

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.04.25 @ 08:17:30

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud W/Oil Spots, less than 1%O	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

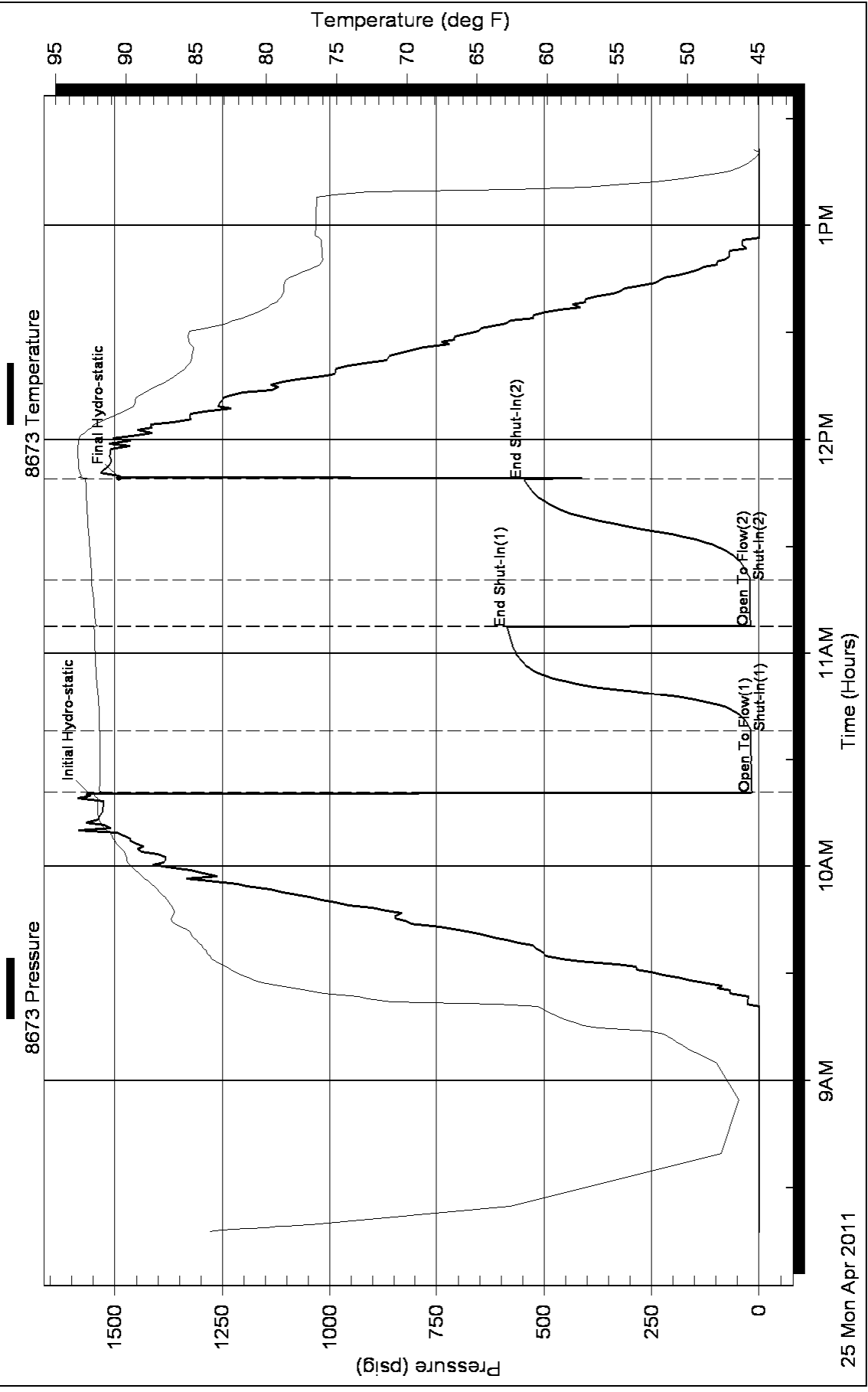
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil, Inc.

A-R Unit #1

PO Box 8050
Edmond, OK. 73083

1-16s-15w-Barton

ATTN: Steve Murphy

Job Ticket: 42376

DST#: 2

Test Start: 2011.04.26 @ 00:29:23

GENERAL INFORMATION:

Formation: **E-F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:02:53

Time Test Ended: 05:57:23

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3206.00 ft (KB) To 3236.00 ft (KB) (TVD)

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3236.00 ft (KB) (TVD)

1916.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 25.93 psig @ 3208.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.26

End Date:

2011.04.26

Last Calib.:

2011.04.26

Start Time: 00:29:25

End Time:

05:57:23

Time On Btm:

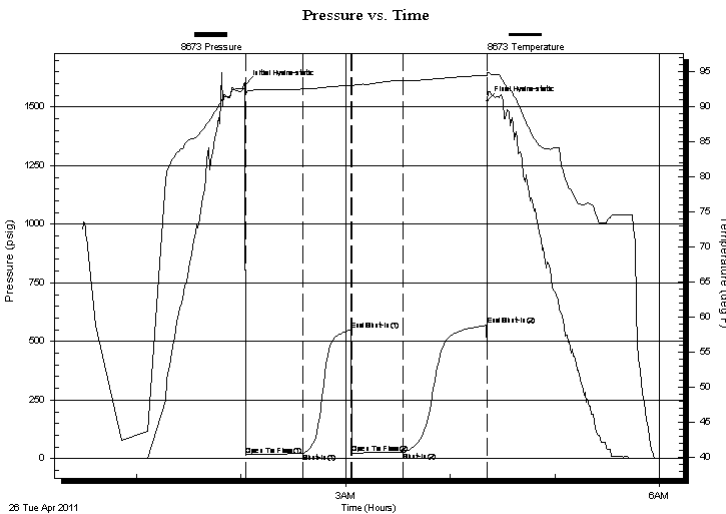
2011.04.26 @ 02:02:38

Time Off Btm:

2011.04.26 @ 04:21:23

TEST COMMENT: IFP-Weak Blow ,Built to 1"
ISI-Dead
FFP-Weak Surface Blow
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.59	92.74	Initial Hydro-static
1	14.55	91.80	Open To Flow (1)
33	21.30	92.57	Shut-In(1)
61	550.30	93.10	End Shut-In(1)
61	23.15	92.88	Open To Flow (2)
91	25.93	93.76	Shut-In(2)
139	568.59	94.54	End Shut-In(2)
139	1526.14	94.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc.

A-R Unit #1

PO Box 8050
Edmond, OK. 73083

1-16s-15w-Barton

Job Ticket: 42376

DST#: 2

ATTN: Steve Murphy

Test Start: 2011.04.26 @ 00:29:23

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Drilling Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

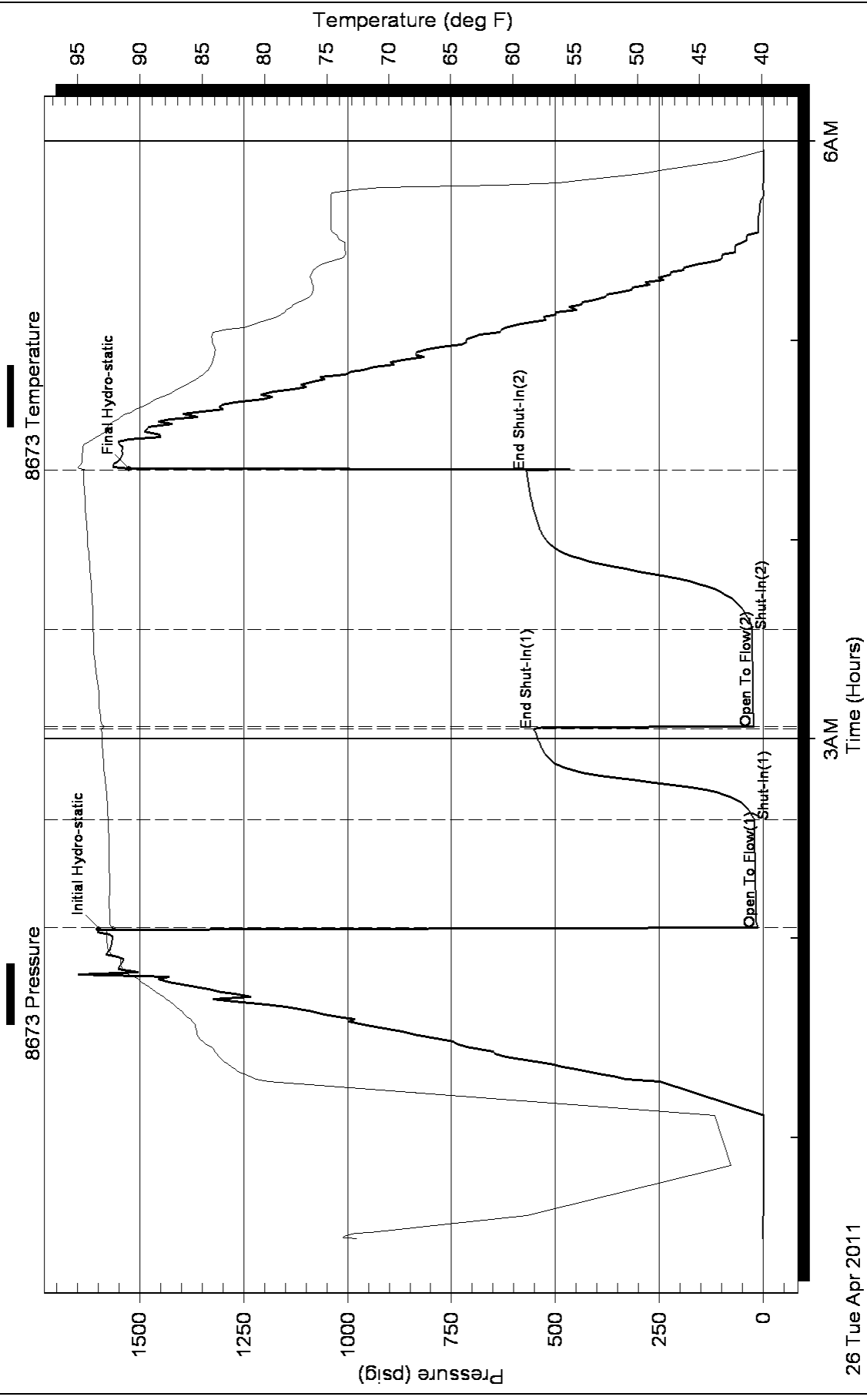
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



26 Tue Apr 2011

3AM
Time (Hours)

6AM



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil, Inc.

PO Box 8050
Edmond, OK. 73083

ATTN: Steve Murphy

A-R Unit #1

1-16s-15w-Barton

Job Ticket: 42377

DST#: 3

Test Start: 2011.04.26 @ 15:41:22

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 17:54:07 Tester: Jason McLemore
 Time Test Ended: 23:16:07 Unit No: 54
 Interval: **3276.00 ft (KB) To 3310.00 ft (KB) (TVD)** Reference Elevations: 1922.00 ft (KB)
 Total Depth: 3310.00 ft (KB) (TVD) 1916.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 6.00 ft

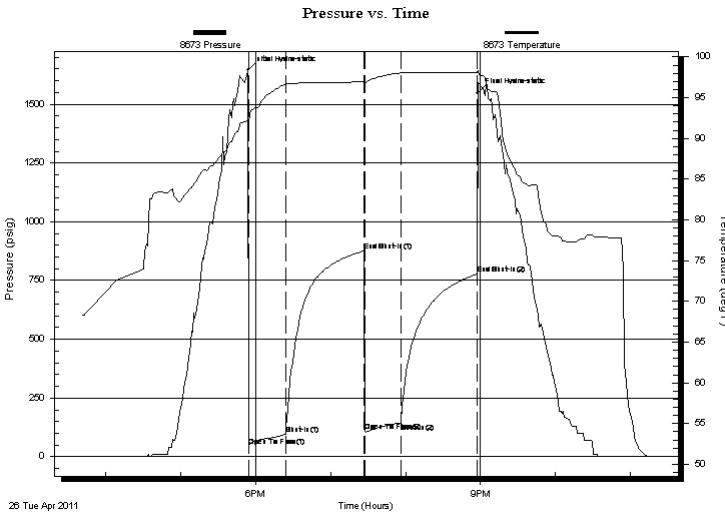
Serial #: 8673

Inside

Press @ Run Depth: 143.98 psig @ 3282.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.04.26 End Date: 2011.04.26 Last Calib.: 2011.04.26
 Start Time: 15:41:24 End Time: 23:16:07 Time On Btm: 2011.04.26 @ 17:53:52
 Time Off Btm: 2011.04.26 @ 20:57:37

TEST COMMENT: IFP-Strong, BOB in 2 Min.
 ISI-Blow back Built to 8"
 FFP-Strong, BOB in 3 Min.
 FSI-Blow back Built to BOB in 15 Min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.15	92.22	Initial Hydro-static
1	42.43	91.45	Open To Flow (1)
30	96.46	96.68	Shut-In(1)
93	876.45	96.95	End Shut-In(1)
94	107.65	96.61	Open To Flow (2)
123	143.98	98.06	Shut-In(2)
183	777.99	98.04	End Shut-In(2)
184	1549.60	98.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOCMW-1%O-89%W-10%M	0.30
120.00	Free Oil	1.17
70.00	Gassy, Frothy Oil-70%G-30%O	0.98
60.00	MCO-60%O-40%M	0.84
0.00	1185' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc.

A-R Unit #1

PO Box 8050
Edmond, OK. 73083

1-16s-15w-Barton

Job Ticket: 42377

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.04.26 @ 15:41:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

92000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSOCMW-1%O-89%W-10%M	0.295
120.00	Free Oil	1.173
70.00	Gassy, Frothy Oil-70%G-30%O	0.982
60.00	MCO-60%O-40%M	0.842
0.00	1185' Gas In Pipe	0.000

Total Length: 310.00 ft

Total Volume: 3.292 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

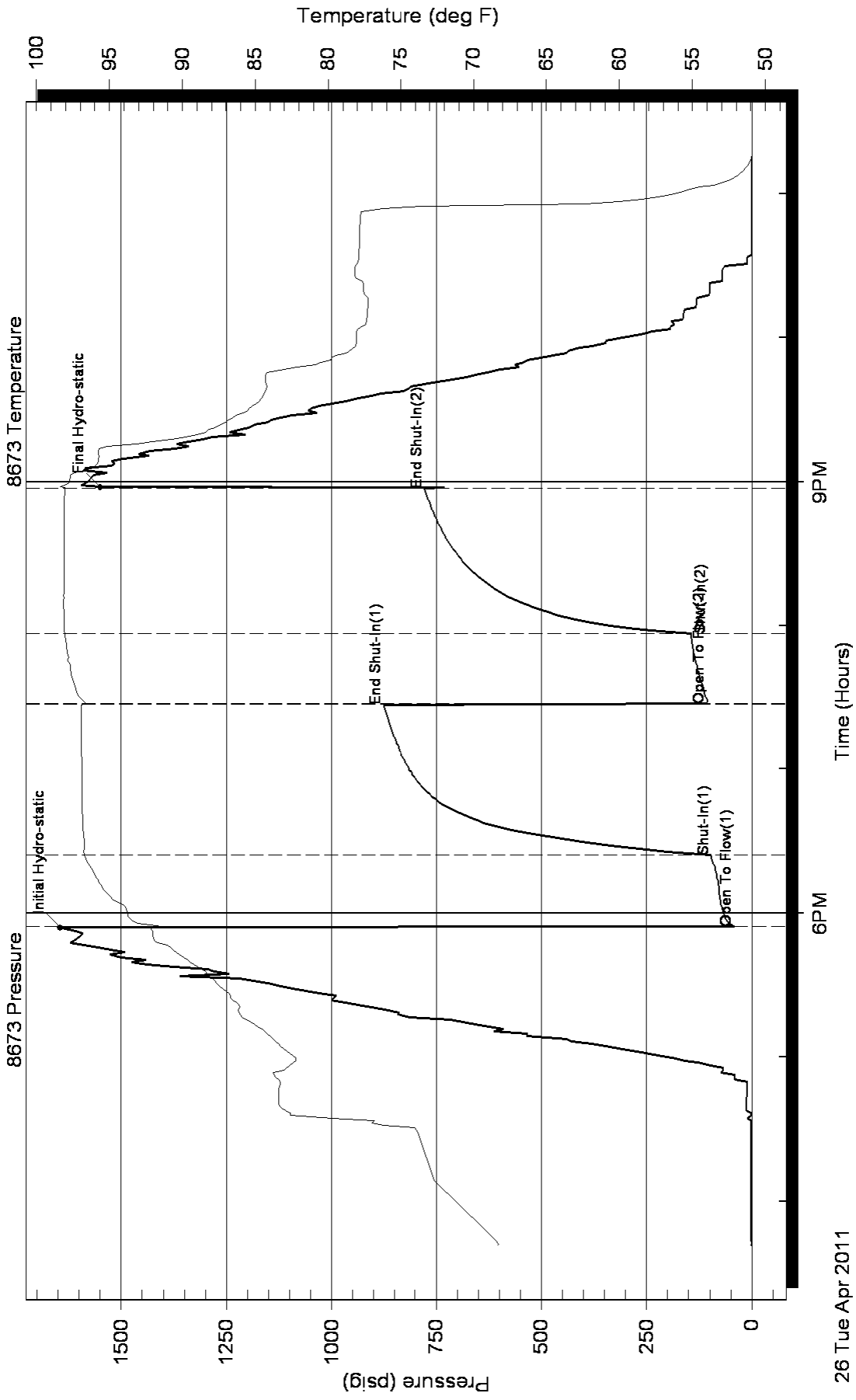
Serial #:

Laboratory Name:

Laboratory Location:

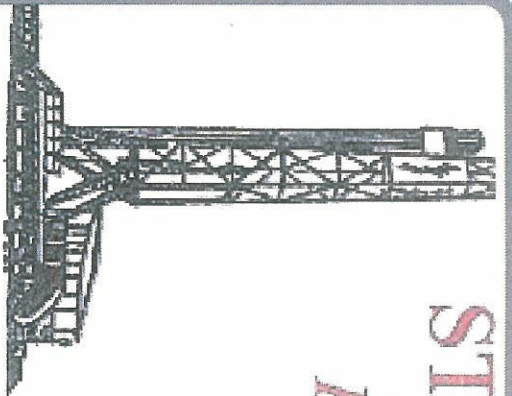
Recovery Comments:

Pressure vs. Time



STEVEN P. MURPHY, P.G.

Petroleum Geologist (KS #228)



RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Cell 620.639.3030

Fax 785.387.2400

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: AR Unit #1

Location: Barton County

License Number: API #15-009-25534-00-00

Spud Date: 4/20/11

Surface Coordinates: 2700' FSL & 2310' FWL (S/2 SE SE NW)

Section 1-Township 16 South-Range 15 West

Bottom Hole Coordinates: Vertical well with minimal deviation, same as above

Region: Kansas

Drilling Completed: 4/28/11

Logged Interval (ft): 2800' To: TD
Formation: Topoka thru Arbuckle
Type of Drilling Fluid: Chemical (Mudco - Gary Schmidberger, Mud Engineer)
Printed by STRIP LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Russell Oil, Inc.
Address: P.O. Box 8050
Edmund, OK 73083

GEOLOGIST

Name: Steven P. Murphy, PG
Company: Consulting Petroleum Geologist (KS License #228)
Address: 3365 County Rd 390
Ottis, KS 67565
Cell Phone No: 620-639-3030

LogTops (Datum)
The open-hole logging was performed by Log-Tech (Hays, KS shop). Logs included Compensated Neutron/Compensated Density, Dual Induction & Microlog.
Formation tops and datums from the open-hole logs include the following:

Top Anhydrite - 938 (+984)
Base Anhydrite - 971 (+951)
Topoka - 2850 (-928)
Heebner - 3079 (-1157)
Toronto - 3097 (-1175)
Douglas - 3112 (-1190)
Lansing - 3142 (-1220)
Stark - 3336 (-1414)
BKC - 3370 (-1448)
Arbuckle - 3396 (-1474)

DRILL STEM TESTS #1-3

The following drillstem tests were performed by Jason McLemore w/Tribolite Testing from the Hays, KS shop:

DST #1 3156-3186 (LKC "B & C" Zones)

15:30:15:30
IF: Wk surf blow built to 3/4", no return
FF: Wk surf blow, no return
Recovery: 5' Mud w/Oil spots
IHP: 1559 FHP: 1491
IFP: 16-19 ISIP: 585
FFP: 19-21 FSIP: 547
BHT: 93 F

DST #2 3206-3236 (LKC "E, F, G" Zones)

30:30:30:45
IF: Wk blow built to 1", no return
FF: Wk surf blow, no return
Recovery: 5' Mud
IHP: 1598 FHP: 1526
IFP: 15-21 ISIP: 550
FFP: 23-26 FSIP: 569
BHT: 95 F

DST #3 3276-3310 (LKC "H & I" Zones)

30:60:30:60
IF: BOB in 2 min, 8" return
FF: BOB in 3 min, return BOB in 15 min
Recovery: 1185 GIP, 60' MCO (60% O, 40% M),
70' GSY Oil (70% G, 30% O), 120' FO,
60' VSOCMW (1% O, 89% W, 10% M)
IHP: 1644 FHP: 1550

FFP: 108-144 FSP: 778
 BHT: 98 F
 Oil Gravity: 41
 Chlorides: 92,000 ppm R_w: 0.136 @ 54 F

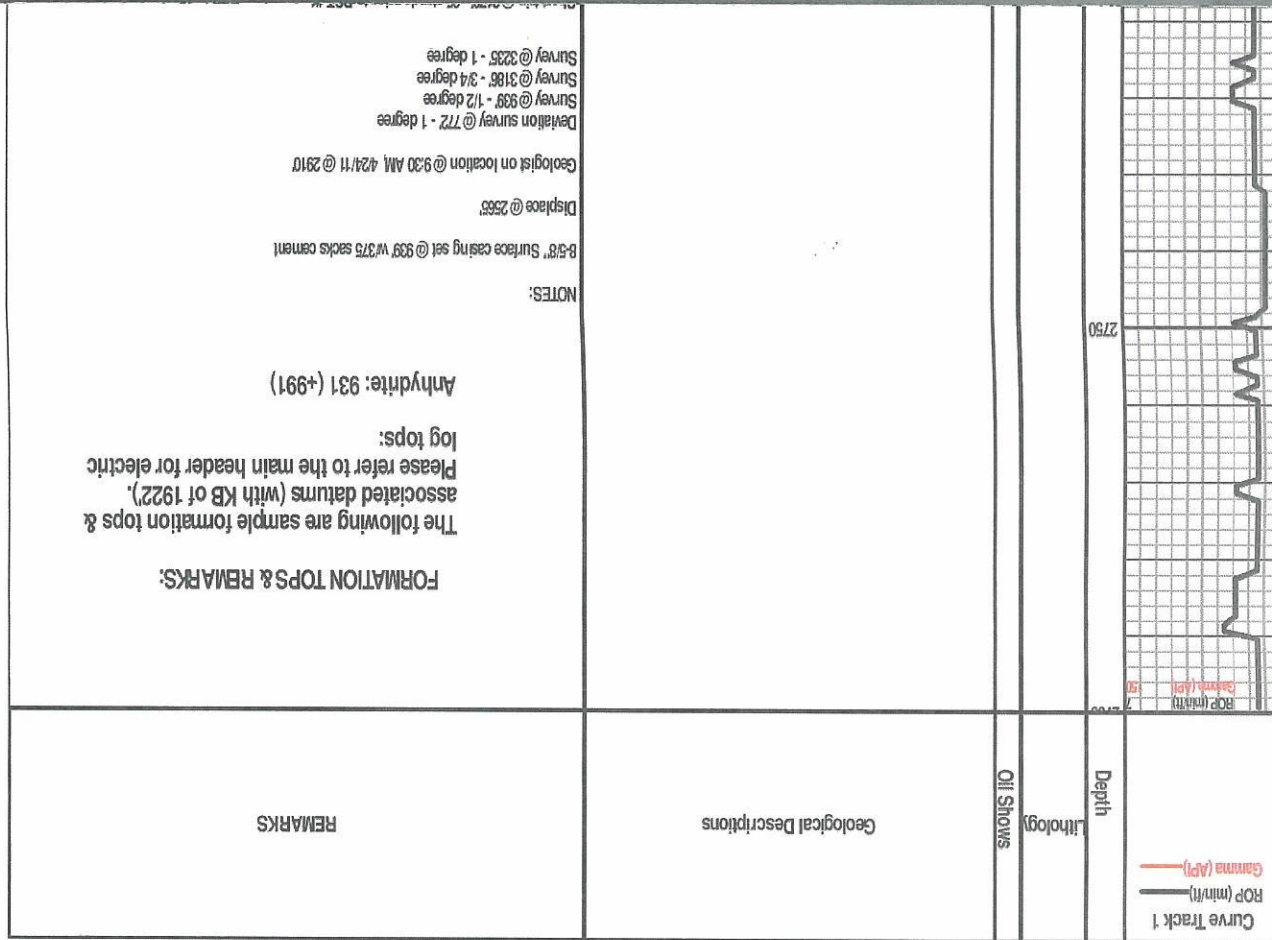
COMMENTS
 The AR Unit #1 was drilled by Southwind Drilling Rig #4 (Tool pusher Robert Stevenson).
 Based on the results of drillstem testing and sample & log analysis, it was recommended that casing be set to produce the Lansing-Kansas City. As a result, 5-1/2" (15.5#) production casing was set six feet (6') feet off bottom.
 Respectfully submitted,
 Steven P. Murphy, PG
 Consulting Petroleum Geologist
 (KS Licence #228)

ROCK TYPES

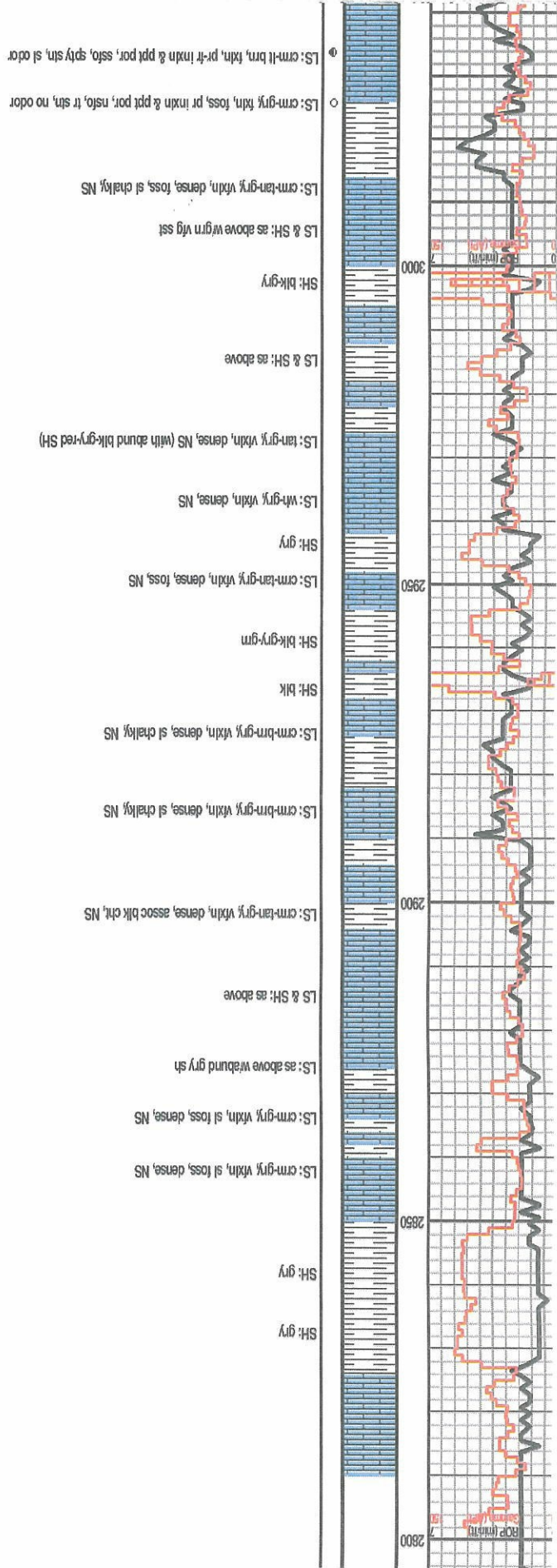
Shol	Shgyl	Silst	Ss	Till
Shale	Lmst	Meta	Mist	Salt
Coal	Congl	Dol	Gyp	Igne
Anhy	Bent	Brec	Cht	Clyst

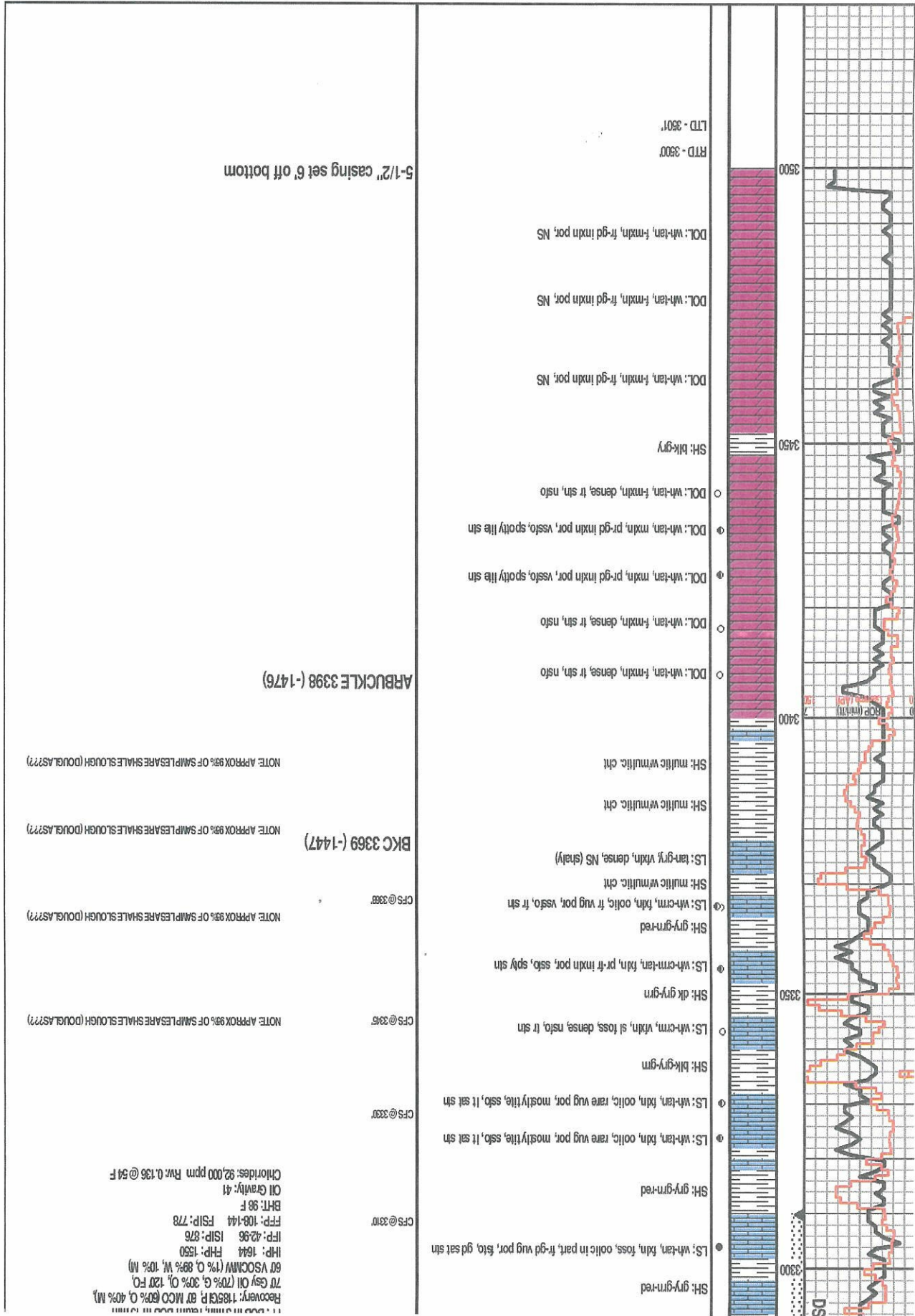
OTHER SYMBOLS

Oil Show	Dead	Gas	Core	Dst
Even	Spotted	Ques	Core	Interval
Conn	Rft	Sidewall	Event	



TOPEKA 2851 (-929)





5-1/2" casing set 6' off bottom

ARBUCKLE 3398 (-1476)

BKC 3369 (-1447)

NOTE: APPROX 99% OF SAMPLES ARE SHALE SLOUGH (DOUGLAS???)

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5046

Date	4-21-11	Sec.	1	Twp.	16	Range	15	County	Barton	State	KS	On Location		Finish	4:39pm	
Lease	AR Unit		Well No.	1		Location Milburger's Coline 2w 1/2s Finto										
Contractor	Southwind #4							Owner								
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.	939												
Csg.	8 5/8		Depth	939												
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.	43.73		Shoe Joint	43.73												
Meas Line			Displace	57 B.C.		Cement Amount Ordered 375 com. 3% CC 2% Gel										

EQUIPMENT

Pumptrk	5	No.	Cementer	Lang	Common	375
			Helper			
Bulktrk		No.	Driver	Brandon	Poz. Mix	
			Driver			
Bulktrk	12	No.	Driver	Rocky	Gel.	7
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 set @ 939. Bottle @ 895.27	Sand
Est Circulation Mix 375 SIC X	Handling 395
Displace Plug	Mileage

FLOAT EQUIPMENT

Cement Circulated!	Guide Shoe	8 5/8 Rubber Plug
Plug landed @ 700psi.	Centralizer	Rattle Date
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Quality Oilwell

Thanks!

Quality Cementing

Pumptrk Charge	Long Surface	Tax	
Mileage	18	Discount	
		Total Charge	

X Signature *Rabus Stenerson*

Customer Russell Oil, Inc		Lease No.		Date 4-28-11	
Lease A R unit		Well # #1			
Field Order # 03893A	Station Pratt KS	Casing 5 1/2"	Depth	County Barton	State KS.
Type Job 5 1/2" Long String			Formation CWW TP 3500'	Legal Description 1-16-15	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft		Acid 24 BBL Super flush II	RATE	PRESS	ISIP	
Depth 3494	Depth	From	To	Pre Pad 160 SKs AA 20	Max 15.3 #/gal		5 Min.	
Volume 82	Volume	From	To	Pad	Min		10 Min.	
Max Press 1000 #	Max Press	From	To	Frac 30 SKs 60/40 Poz	Avg Rot Hole.		15 Min.	
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3452	Packer Depth	From	To	Flush Disp 2% KCC	Gas Volume		Total Load	

Customer Representative Todd Brown	Station Manager Scotty	Treater Allen
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Service Units 2844	33708	20920	Jarod Brungardt					
Driver Names Allen Keeven Lasty	19831	21010						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00 AM					on Loc. Discuss Safety, Setup, Plan Job
4:30 AM					Laying down Kelly
5:40					Start 5 1/2" 15.5" Shoe Joint 42.18'
					cent-1-3-5-8-10-11-12-13-14-15
					66-71-76-81
7:15					Pipe @ 3494 Hookup + circ + Rotate
8:35	200#		5	5	Pump 5 BBLs H2O spacer
			24	5	Pump 24 BBLs Super flush II
				5	pump 5 BBLs N2O spacer
				5	mix + pump 160 SKs AA-2 @ 15.3 #
			39		Finish mix, washout Pump + Line
					Drop Top Rubber Plug 5 1/2"
8:54				5	Start Disp. 2% KCC first 24 BBL
	300#			4	caught lift PST w/ 60 BBLs out
9:15	1000#		82	3	Plug down
					Release P.S.I - OK
					Plug Rot Hole w/ 30 SKs
					60/40 Poz 2% gal
					washup Equip + Rack up.
10:30					Job complete
					thanks
					Allen Keeven Jarod