

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1051583

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 #	API No. 15				
Name:	Spot Description:				
Address 1:					
Address 2:	Feet from North / South Line of Section				
City: State: Zip:+	Feet from East / West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	County:				
Name:	Lease Name: Well #:				
Wellsite Geologist:	Field Name:				
Purchaser:	Producing Formation:				
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:				
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:				
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd.  CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt				
If Workover/Re-entry: Old Well Info as follows:					
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
Original Comp. Date: Original Total Depth:   Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:				
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:				
Commingled Permit #:	Operator Name:				
Dual Completion Permit #:	Lease Name: License #:				
SWD Permit #:	Quarter Sec TwpS. R				
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date					

#### **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:								

Side Two



Operator Name:			Lease Na	ame:			_ Well #:		
Sec Twp	S. R	East West	County:						
INSTRUCTIONS: Show time tool open and clos recovery, and flow rates ine Logs surveyed. Att	ed, flowing and shut if gas to surface tes	in pressures, whether, along with final cha	er shut-in pressu	ire reached	d static level,	hydrostatic pres	sures, bottom h	ole temper	ature, fluid
Drill Stem Tests Taken (Attach Additional Sh	neets)	Yes No		Log	Formation	n (Top), Depth ar	nd Datum	☐ Sa	ımple
Samples Sent to Geolo	gical Survey	Yes No		Name			Тор	Da	atum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)		Yes No							
ist All E. Logs Run:									
		CASII Report all strings s	NG RECORD	New ace, interme	Used	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weigh Lbs. / F		Setting Depth	Type of Cement	# Sacks Used		d Percent ditives
		ADDITION	NAL CEMENTING	G / SQUEE	ZE RECORD			I	
Purpose:  —— Perforate  —— Protect Casing  —— Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks U	Jsed		Type and I	Percent Additives		
Plug Off Zone									
Shots Per Foot	PERFORATIO Specify F	ON RECORD - Bridge Footage of Each Interval	Plugs Set/Type Perforated			eture, Shot, Cemen		d	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Li	ner Run:	Yes No			
Date of First, Resumed P	roduction, SWD or ENF	HR. Producing N	Method: Pumping	Gas	Lift O	ther (Explain)			
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	Bb	ols.	Gas-Oil Ratio		Gravity
DISPOSITION	N OF GAS:		METHOD OF C	COMPLETIO	N:		PRODUCTIO	ON INTERVA	AL:
Vented Sold	Used on Lease	Open Hole	Perf.	Dually Cor	mp. Com	nmingled			
(If vented, Subn		Other (Specify	,	Submit ACO	-5) (Subr	nit ACO-4)			

Form	ACO1 - Well Completion				
Operator	Russell Oil, Inc.				
Well Name	Virginia 2-6				
Doc ID	1051583				

# All Electric Logs Run

MICRORESISTIVETY
DUAL COMPENSTATED POROSITY
DUAL INDUCTION
COMPUTER PROCESSED INTERPRETATION

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Virginia 2-6
Doc ID	1051583

# Tops

Name	Тор	Datum
ANHYDRATE	1782	+510
BASE OF ANHYDRATE	1826	+510
ТОРЕКА	3318	-1024
HEEBNER	3530	-1237
TORONTO	3550	-1258
LANSING	3570	-1276
BASE OF KANSAS CITY	3800	-1507
ARBUCKLE	3979	-1684

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/

Thomas E. Wright, Chairman Ward Loyd, Commissioner Corporation Commission

Sam Brownback, Governor

March 02, 2011

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

Re: ACO1 API 15-195-22688-00-00 Virginia 2-6 NW/4 Sec.06-11S-22W Trego 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 II

# Y OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 Home Office P.O. Box 32 Russell, KS 67665 No. 4 200 to saw antigonal

Cell 785-324-1041	PERTUGE	SO SALLIST	and lengther the	e rated and dasse y	WILLIAM TO AMERICAN	MD 50 98/07/18 97 (BF3) 70	THE PROPERTY SECOND
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Type Job Surface	iyya Kar	e wai ĐA	BMAR and an	To Quality C	Dilwell Cementing, Inc. by requested to rent	cementing equipmen	and furnish
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# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

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Prepared For:

Russell Oil Inc

P O Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

# 6-11s-22w Trego,KS

# Virginia #2-6

Start Date: 2010.11

2010.11.29 @ 00:12:37

End Date:

2010.11.29 @ 05:54:01

Job Ticket #: 41043

DST#: 1

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



Russell Oil Inc

Virginia #2-6

6-11s-22w Trego,KS

PO Box 8050 Edmond, OK. 73083

Job Ticket: 41043

DST#: 1

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 00:12:37

#### GENERAL INFORMATION:

Formation:

Toronto

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester: Unit No: Ray Schwager 42

Time Test Ended: 05:54:01

Time Tool Opened: 02:29:02

3521.00 ft (KB) To 3559.00 ft (KB) (TVD)

Reference Elevations:

2292.00 ft (KB)

Interval: Total Depth:

3559.00 ft (KB) (TVD)

2285.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Fair

KB to GR/CF:

7.00 ft

Serial #: 6625 Press@RunDepth: Inside

25.76 psig @

3558.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

2010.11.29 00:12:37 End Date: End Time: 2010.11.29 05:54:01

Time On Btm:

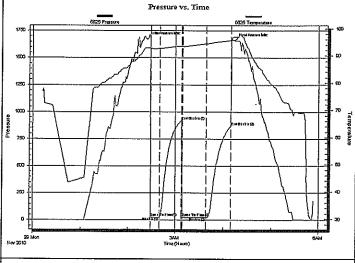
2010.11.29 2010.11.29 @ 02:24:32

Time Off Btm

2010.11.29 @ 04:14:32

TEST COMMENT: IFP-surface bl

ISIP-no bi FFP-no bl FSIP-no bl



	PRESSURE SUMMARY										
	Time	Pressure	Temp	Annotation							
	(Min.)	(psig)	(deg F)								
	0	1674.60	92.93	Initial Hydro-static							
	5	27.77	92.66	Open To Flow (1)							
	16	26.37	92.65	Shut-In(1)							
	44	919.15	93.53	End Shut-In(1)							
ğ	45	26.86	93.40	Open To Flow (2)							
Temperalure	75	25.76	94.48	Shut-ln(2)							
흅	105	868.53	95.70	End Shut-In(2)							
	110	1659.92	96.92	Final Hydro-static							

# Recovery Length (fi) Description Volume (bbi) 5.00 mud 0.07

	Gas Ra	les	
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
•	· · · · · · · · · · · · · · · · · · ·		•
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**TOOL DIAGRAM** 

Russell Oil Inc

PO Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

Virginia #2-6

6-11s-22w Trego,KS

Job Ticket: 41043

DST#:1

Test Start: 2010.11.29 @ 00:12:37

Tool Information

Drill Fipe: Length: 3555.00 ft Diameter:

Heavy Wt. Fipe: Length: Drill Collar:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume: Total Volume:

49.87 bbi ldd 00.0 1dd 00.0 49.87 bbl

Tool Weight: 2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 55000.00 lb

Tool Chased 0.00 ft

String Weight: Initial 46000.00 lb

Final 46000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

31.00 ft 3552.00 ft ft

Depth to Bottom Packer:

Interval between Packers: 38.00 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			3525.00		
Shut In Tool	5.00			3530.00		
Hydraulic tool	5.00			3535.00		
Jars	5.00			3540.00		
Safety Joint	2.00			3542.00		
Packer	5.00			3547.00	28.00	Bottom Of Top Packer
Packer	5.00	•		3552.00		
Stubb	1.00			3553.00		
Perforations	5.00			3558.00		
Recorder	0.00	6625	Inside	3558.00		
Recorder	0.00	8652	Outside	3558.00		ì
Perforations	29.00			3587.00		
Bullnose	3.00			3590.00	38.00	Bottom Packers & Anchor

Total Tool Length:

66.00



**FLUID SUMMARY** 

Russell Oil Inc

Virginia #2-6

6-11s-22w Trego,KS

PO Box 8050 Edmond, OK. 73083

Job Ticket: 41043

DST#:1

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 00:12:37

#### **Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight:

9.00 lb/gal

Cushion Length:

fţ

Viscosity:

48.00 sec/qt

Cushion Volume:

Water Salinity:

ppm

Water Loss:

7.10 in<sup>3</sup>

Gas Cushion Type:

idd

Resistivity: Salinity:

ohmm 1300.00 ppm

Gas Cushion Pressure:

psig

Filter Cake: 1.00 inches

**Recovery Information** 

Recovery Table

Length Description Volume ldd 5.00 mud 0.070

Total Length:

5.00 ft

Total Volume:

0.070 bbl

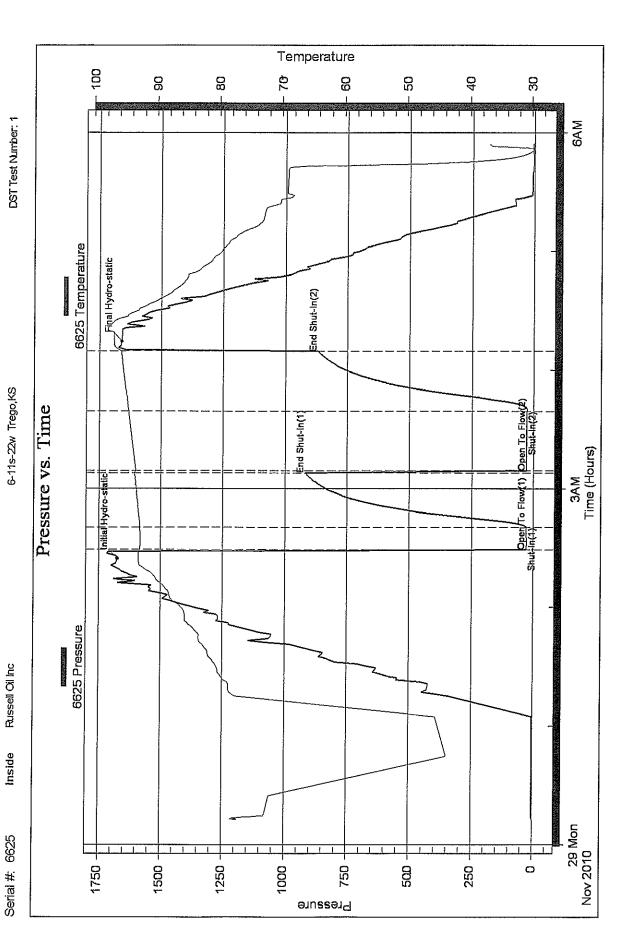
0

Num Fluid Samples: 0

Laboratory Name:

Num Gas Bombs: Laboratory Location: Serial#:

Recovery Comments:



Trilobite Testing, Inc

Ref. No: 41043

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# DRILL STEM TEST REPORT

Prepared For:

Russell Oil Inc

P O Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

# 6-11s-22w Trego,KS

# Virginia #2-6

Start Date: 2010.11.29 @ 18:55:44 End Date: 2010.11.30 @ 01:34:08

Job Ticket #: 41044

DST#: 2

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



Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

Job Ticket: 41044

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 18:55:44

#### GENERAL INFORMATION:

Time Tool Opened: 20:28:09

Time Test Ended: 01:34:08

Formation:

LKC A-B

Deviated:

No Wnipstock: ft (KB)

Test Type:

Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

Reference Elevations:

2292.00 ft (KB) 2285.00 ft (CF)

KB to GR/CF:

7.00 ft

DST#: 2

Interval: Total Depth:

Hole Diameter:

3559.00 ft (KB) To 3590.00 ft (KB) (TVD)

3590.00 ft (KB) (TVD)

7.88 inchesHole Condition: Fair

Serial #: 6625 Press@RunDepth: inside

56.01 psig @

2010.11.29

3565.00 ft (KB)

End Date:

2010.11.30

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

18:55:44

End Time:

01:34:08

Time On Btm:

2010.11.30 2010.11.29 @ 20:25:09

Time Off Btm

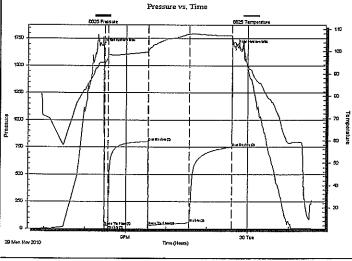
2010.11.29 @ 23:41:08

TEST COMMENT: IFP-wkbl 1/2"to 1"bl

ISIP-no bl bk

FFP-wkbl surface to 1"bl

FSIP-no bl bk



	PRESSURE SUMMARY							
-	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1683.82	95.14	Initial Hydro-static				
	3	24.63	95.13	Open To Flow (1)				
	9	30.85	98.09	Shut-In(1)				
	68	802.07	99.69	End Shut-In(1)				
育	68	31.37	99.49	Open To Flow (2)				
Tomperature	129	56.01	107.73	Shut-In(2)				
ř	191	751.27	107.15	End Shut-In(2)				
1	196	1674.34	104.07	Final Hydro-static				
			į					
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#### Recovery

Length (fi)	Description	Volume (bbl)
20.00	MW 20%M80%W w/show of oil	0.28
60.00	Water	0.84

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

Trilobite Testing, Inc.

Ref. No: 41044

Printed: 2010.12.10 @ 10:46:42 Page 2



**TOOL DIAGRAM** 

Russell Oil Inc

Virginia #2-6

Job Ticket: 41044

PO Box 8050 Edmond, OK. 73083

6-11s-22w Trego,KS

ATTN: LeRoy Holt II

DST#: 2

Test Start: 2010.11.29 @ 18:55:44

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3557.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 49.90 bbl 0.00 bbl Tool Weight:

2200.00 lb

Drill Collar:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

Diameter:

0.00 inches Volume: 0.00 bbl Total Volume:

Weight to Pull Loose: 60000.00 lb

Weight set on Packer: 25000.00 lb

Drill Pipe Above KB:

26.00 ft

49.90 bbl

Tool Chased

0.00 ft

Depth to Top Packer:

Number of Packers:

3559.00 ft

String Weight: Initial 47000.00 lb

Depth to Bottom Packer:

fţ

Final 48000.00 lb

Interval between Packers: Tool Length:

31.00 ft

59.00 ft 2

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3532.00		
Shut in Tool	5.00			3537.00		
Hydraulic tool	5.00			3542.00		
Jars	5.00			3547.00		
Safety Joint	2.00			3549.00		
Packer	5.00			3554.00	28.00	Bottom Of Top Packer
Packer	5.00			3559.00		
Stubb	1.00			3560.00		
Perforations	5.00			3565.00		
Recorder	0.00	6625	Inside	3565.00		
Recorder	0.00	8652	Outside	3565.00		
Perforations	22.00			3587.00		
Bullnose	3.00			3590.00	31.00	Bottom Packers & Anchor

Total Tool Length:

59.00



**FLUID SUMMARY** 

Russell Oil Inc

Virginia #2-6

Job Ticket: 41044

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

DST#: 2

ATTN: LeRoy Holt II

Test Start: 2010.11.29 @ 18:55:44

#### 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: 70000 ppm

Viscosity:

54.00 sec/qt 7.10 in<sup>3</sup>

Cushion Volume: Gas Cushion Type: bbl

Water Loss: Resistivity:

ohmm

Gas Cushion Pressure:

psig

Salinity: Filter Cake:

1500.00 ppm 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
20.00	MW 20%M80%Ww/show of oil	0.281
60.00	Water	0.842

Total Length:

80.00 ft

Total Volume:

1.123 bbl

0

Num Fluid Samples: 0

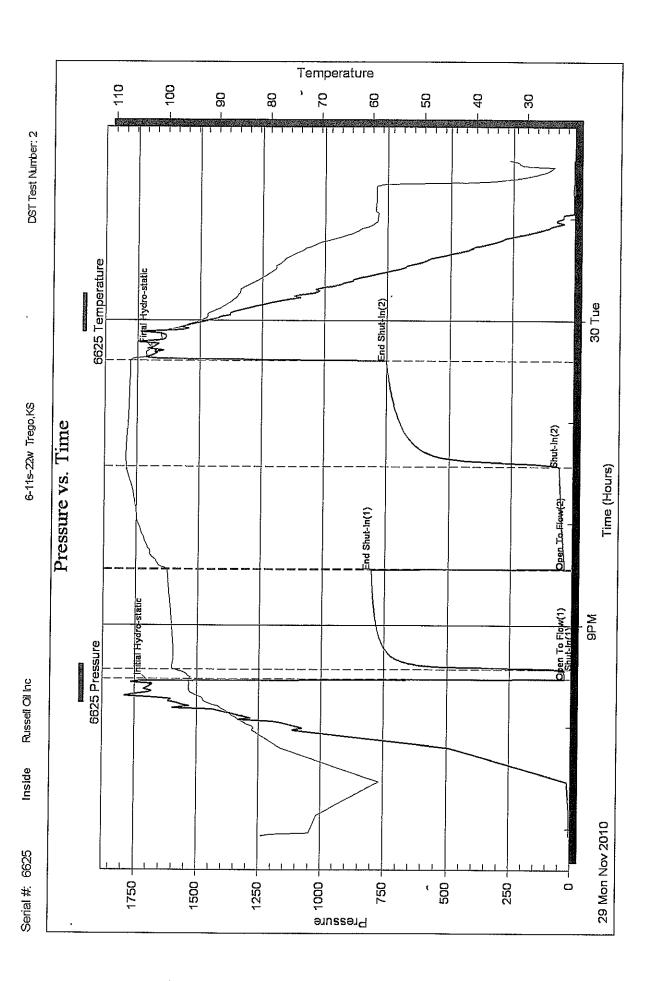
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.13@60F



Trilobite Testing, Inc

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LKC F-G



# DRILL STEM TEST REPORT

Prepared For:

Russell Oil Inc

P O Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

# 6-11s-22w Trego,KS

# Virginia #2-6

Start Date: 2010.11.30 @ 14:03:55
End Date: 2010.11.30 @ 21:15:49
Job Ticket #: 41045 DST #: 3

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



Russell Oil Inc

PO Box 8050 Edmond, OK 73083

ATTN: LeRoy Holt II

Virginia #2-6

6-11s-22w Trego,KS

Job Ticket: 41045

DST#:3

Test Start: 2010.11.30 @ 14:03:55

#### GENERAL INFORMATION:

Formation:

LKC F-G

Deviated:

No Wnipstock: ft (KB)

Test Type:

Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

42

Interval: Total Depth:

Hole Diameter:

3630.00 ft (KB) To 3680.00 ft (KB) (TVD)

Time Tool Opened: 16:02:20

Time Test Ended: 21:15:49

3680.00 ft (KB) (TVD)

7.88 inchesHole Condition: Fair

Reference Bevations:

2292.00 ft (KB)

KB to GR/CF:

2285.00 ft (CF) 7.00 ft

Serial #: 6625

Press@RunDepth:

Inside

103.84 psig @ 2010.11.30

3632.00 ft (KB) End Date:

2010.11.30

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

14:03:55

End Time:

21:15:49

Time On Btm

2010.11.30

Time Off Btm:

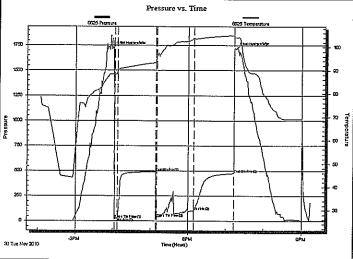
2010.11.30 @ 15:58:50 2010.11.30 @ 19:16:19

TEST COMMENT: IFP-wkbi 1/2"to 3"bl

ISIP-surface bl bk

FFP-wk to a fr bl 1"to 4 1/2"bl

FSIP-no bl bk



	PRESSURE SUMMARY									
	Time	Pressure	Temp	Annotation						
00	(Mn.)	(psig)	(deg F)							
-	0	1716.89	88.58	Initial Hydro-static						
•	4	21.08	88.38	Open To Flow (1)						
	9	31.31	89.74	Shut-In(1)						
,	70	491.91	93.50	End Shut-In(1)						
, <u>ಕ</u>	71	37.38	95.93	Open To Flow (2)						
Temperature	130	103.84	103.80	Shut-ln(2)						
ă	194	474.87	105.07	End Shut-In(2)						
,	198	1711.77	104.18	Final Hydro-static						
				-						
1										

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28
120.00	SO&GCM 5%G6%O89%M	1.68

Recovery

Gas Rates	tes	es Ra	Ga	
Choke (inches) Pressure (psig) Gas Rate (	Pressure (psig)	e (inches)	Choke (	



**TOOL DIAGRAM** 

Russell Oil Inc

PO Box 8050

Edmond, OK. 73083

ATTN: LeRoy Holt II

Virginia #2-6

6-11s-22w Trego,KS

Job Ticket: 41045

DST#:3

Test Start: 2010.11.30 @ 14:03:55

Tool Information

Drill Pipe:

Heavy Wt. Pipe: Length: Drill Collar:

Length:

Length: 3615.00 ft Diameter:

0.00 ft Diameter: 0.00 ft Diameter:

0.00 inches Volume: 0.00 inches Volume: Total Volume:

3.80 inches Volume:

1dd 00.0 0.00 bbl

50.71 bbl

50.71 bbl

Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb

Weight to Pull Loose: 60000.00 lb 0.00 ft

Tool Chased

String Weight: Initial 47000.00 lb

48000.00 lb Final

Drill Pipe Above KB: Depth to Top Packer:

13.00 ft 3630.00 ft

Depth to Bottom Packer: Interval between Packers:

ft 50.00 ft

78.00 ft 2

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3603.00		
Shut In Tool	5.00			3608.00		
Hydraulic tool	5.00			3613.00		
Jars	5.00			3618.00		
Safety Joint	2.00			3620.00		
Packer	5.00			3625.00	28.00	Bottom Of Top Packer
Packer	5.00			3630.00		
Stubb	1.00			3631.00		
Perforations	1.00			3632.00		
Recorder	0.00	6625	Inside	3632.00		
Recorder	0.00	8652	Outside	3632.00		
Blank Spacing	33.00			3665.00		
Perforations	12.00			3677.00		
Bullnose	3.00			3680.00	50.00	Bottom Packers & Anchor
T-4-1 T						

Total Tool Length:

78.00



**FLUID SUMMARY** 

Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41045

DST#:3

ATTN: LeRoy Holt II

Test Start: 2010.11.30 @ 14:03:55

#### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight:

9.00 lb/gal

Cushion Length:

ft

Viscosity:

53.00 sec/qt

**Cushion Volume:** 

Water Salinity:

ppm

Water Loss:

7.33 in<sup>3</sup>

Gas Cushion Type:

lđd psig

Resistivity: Salinity: Filter Cake:

ohmm 1900.00 ppm

Gas Cushion Pressure:

1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/show of oil	0.281
120.00	SO&GCM 5%G6%O89%M	1.683

Total Length:

140.00 ft

Total Volume:

1.964 bbl

Num Fluid Samples: 0

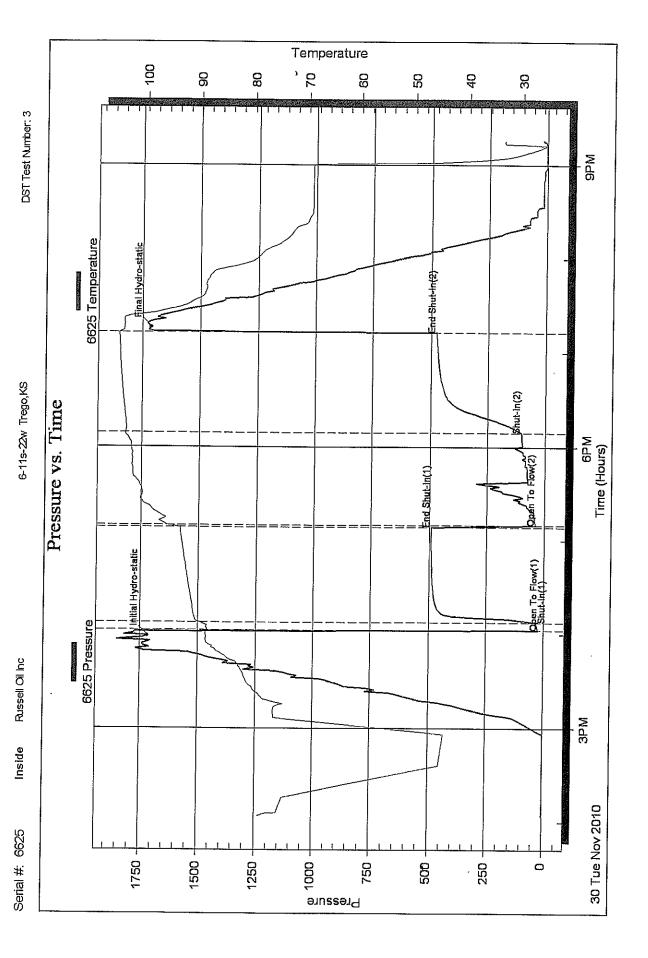
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Ref. No: 41045

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LKC H-7



# DRILL STEM TEST REPORT

Prepared For:

Russell Oil Inc

P O Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

# 6-11s-22w Trego,KS

# Virginia #2-6

Start Date: 2010.12.01 @ 09:36:27

End Date: 2010.12.01 @ 16:50:51

Job Ticket #: 41046 DST #: 4

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



Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

Job Ticket: 41046

DST#:4

ATTN: LeRoy Holt II

Test Start: 2010.12.01 @ 09:36:27

#### GENERAL INFORMATION:

Time Tool Opened: 11:49:52

Time Test Ended: 16:50:51

Formation:

LKC H-J

Deviated:

No

Wnipstock:

ft (KB)

Test Type: Conventional Bottom Hole

Ray Schwager

Tester:

42

Unit No:

Reference Elevations:

2292.00 ft (KB)

KB to GR/CF:

2285.00 ft (CF) 7.00 ft

Interval:

3690.00 ft (KB) To 3740.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 3740.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Serial #: 6625

Inside

Press@RunDepth:

158.16 psig @ 2010.12.01

3692.00 ft (KB)

End Date:

2010.12.01

Capacity:

8000.00 psig

Start Date: Start Time:

09:36:27

End Time:

16:50:51

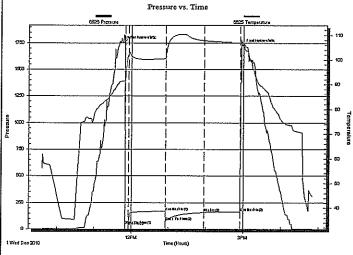
Last Calib.: Time Off Btm 2010.12.01

Time On Btm:

2010.12.01 @ 11:46:22 2010.12.01 @ 14:58:51

TEST COMMENT: IFP-strg bl in 3 min

ISIP-surface bl bk FFP-strg bl in 9 min FSIP-no bl bk



	PRESSURE SUMMARY							
	Time	Pressure	Тетр	Annotation				
0	(Min.)	(psig)	(deg F)					
0	0	1750.18	91.43	Initial Hydro-static				
	4	39.45	91.45	Open To Flow (1)				
	9	71.97	102.72	Shut-in(1)				
	69	164.93	100.52	End Shut-In(1)				
Tem	69	75.24	100.56	Open To Flow (2)				
Temperature	131	158.16	107.86	Shut-In(2)				
ĕ	190	163.19	107.00	End Shut-In(2)				
	193	1723.16	107.16	Final Hydro-static				
ł								
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Length (ft)	Description	Volume (bbl)
0.00	80'GIP	0.00
40.00	SO&GCV/M 10%G2%O20%V/68%M	0.56
62.00	MW 40%M60%W w/show of oil	0.87
186.00	MW 20%M80%W w/show of oil	2.61

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



**TOOL DIAGRAM** 

Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41046

DST#:4

ATTN: LeRoy Holt II

Test Start: 2010.12.01 @ 09:36:27

String Weight: Initial 50000.00 lb

Final

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 3678.00 ft Diameter:

Length:

0.00 ft Diameter: 0.00 ft Diameter:

Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume: Total Volume:

51.59 bbl 1dd 00.0 1dd 00.0 51.59 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2200.00 lb

51000.00 lb

Weight to Pull Loose: 60000.00 lb Tool Chased

0.00 ft

Drill Pipe Above KB: Depth to Top Packer: Depth to Bottom Packer:

Interval between Packers:

16.00 ft 3690.00 ft ft

50.00 ft

2

78.00 ft

6.75 inches

Number of Packers:

Tool Length:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3663.00		
Shut In Tool	5.00			3668.00		
Hydraulic tool	5.00			3673.00		
Jars	5.00			3678.00		
Safety Joint	2.00			3680.00		
Packer	5.00			3685.00	28.00	Bottom Of Top Packer
Packer	5.00			3690.00		
Stubb	1.00			3691.00		
Perforations	1.00			3692.00		
Recorder	0.00	6625	Inside	3692.00		
Recorder	0.00	8652	Outside	3692.00		
Blank Spacing	32.00			3724.00		
Perforations	13.00			3737.00		
Bullnose	3.00			3740.00	50.00	Bottom Packers & Anchor

**Total Tool Length:** 

78.00



**FLUID SUMMARY** 

deg API

44000 ppm

Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

Job Ticket: 41046

DST#:4

ATTN: LeRoy Holt II

Test Start: 2010.12.01 @ 09:36:27

Oil AFI:

Water Salinity:

#### **Mud and Cushion Information**

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal 54.00 sec/qt

Viscosity: Water Loss:

7.74 in<sup>3</sup> ohmm

Resistivity: Salinity: Filter Cake:

1900.00 ppm 1.00 inches **Cushion Type:** 

Cushion Length:

**Cushion Volume:** Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
0.00	80'GIP	0.000
40.00	SO&GCV/M 10%G2%O20%W68%M	0.561
62.00	MW 40%M60%W w /show of oil	0.870
186.00	MW 20%M80%Ww/show of oil	2.609

Total Length:

288.00 ft

Total Volume:

4.040 bbl

Num Fluid Samples: 0

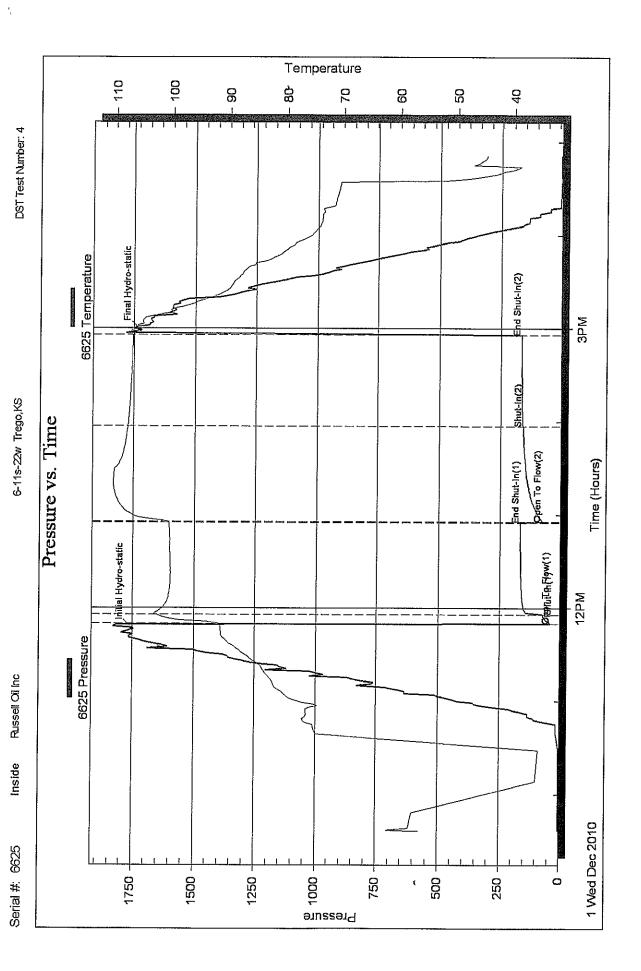
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21@61F



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Trilobite Testing, Inc

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LKC K-L



# DRILL STEM TEST REPORT

Prepared For.

Russell Oil Inc

P O Box 8050 Edmond, OK. 73083

ATTN: LeRoy Holt II

# 6-11s-22w Trego,KS

# Virginia #2-6

Start Date: 2010.12.02 @ 02:39:18 End Date: 2010.12.02 @ 09:44:12

Job Ticket #: 41047 DST #: 5

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



Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

ATTN: LeRoy Holt II

Job Ticket: 41047 DST#:5

Test Start: 2010.12.02 @ 02:39:18

#### GENERAL INFORMATION:

Time Tool Opened: 04:33:43

Time Test Ended: 09:44:12

Formation:

LKC K-L

Deviated:

Interval:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

42

Reference Bevations:

2292.00 ft (KB)

2285.00 ft (CF)

Total Depth: Hole Diameter: 3780.00 ft (KB) (TVD)

7.88 inchesHole Condition: Fair

3730.00 ft (KB) To 3780.00 ft (KB) (TVD)

KB to GR/CF:

7.00 ft

Serial #: 6625 Press@RunDepth:

Inside

177.81 psig @ 2010.12.02

3732.00 ft (KB) End Date:

2010.12.02

Capacity:

8000.00 psig

Start Date: Start Time:

02:39:18

End Time:

09:44:12

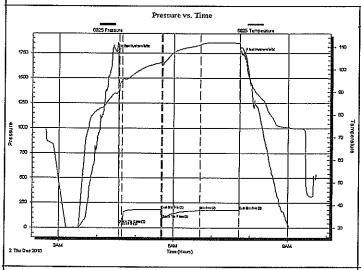
Last Calib.:

2010.12.01

Time On Btm Time Off Btm 2010.12.02 @ 04:29:43 2010.12.02 @ 07:47:42

TEST COMMENT: IFP-strg bl in 4 min

ISIP-surface bl bk FFP-strg bl in 11 min FSIP-no bl bk



#### PRESSURE SUMMARY

	-		
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	į
0	1762.74	89.35	Initial Hydro-static
4	42.84	89.95	Open To Flow (1)
9	66.55	94.14	Shut-in(1)
71	183.93	103.06	End Shut-In(1)
72	93.96	101.75	Open To Flow (2)
132	177.81	110.88	Shut-In(2)
194	181.28	111.74	End Shut-In(2)
198	1737.50	109.56	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
70.00	VM/140%V/60%M	0.98
310.00	MW 20%M80%W	4.35
0.00	w/show of oil in tool	0.00

#### Gas Rates

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



TOOL DIAGRAM

Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083

6-11s-22w Trego,KS

Job Ticket: 41047

DST#:5

ATTN: LeRoy Holt II

Test Start: 2010.12.02 @ 02:39:18

Tool Information

Drill Pipe:

Drill Collar:

Length: 3710.00 ft Diameter: Heavy Wt. Pipe: Length:

Length:

0.00 ft Diameter: 0.00 ft Diameter: 3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume: 52.04 bbl 1dd 00.0 0.00 bbl 52.04 bbl Tool Weight: Weight set on Packer: 25000.00 lb

2200.00 lb

Tool Chased

Weight to Pull Loose: 60000.00 lb

Total Volume:

0.00 ft

Drill Pipe Above KB: Depth to Top Packer: Depth to Bottom Packer:

3730.00 ft ft

String Weight: Initial 50000.00 lb Final 51000.00 lb

Interval between Packers: Tool Length:

50.00 ft

8.00 ft

78.00 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			3703.00		
Shut In Tool	5.00			3708.00		
Hydraulic tool	5.00			3713.00		
Jars	5.00			3718.00		
Safety Joint	2.00			3720.00		
Packer	5.00			3725.00	28.00	Bottom Of Top Packer
Packer	5.00			3730.00		
Stubb	1.00			3731.00		
Perforations	1.00			3732.00		
Recorder	0.00	6625	Inside	3732.00		
Recorder	0.00	8652	Outside	3732.00		
Blank Spacing	32.00			3764.00		
Perforations	13.00			3777.00		
Bullnose	3.00			3780.00	50.00	Bottom Packers & Anchor
Total Tool L						

Total Tool Length:

78.00



**FLUID SUMMARY** 

Russell Oil Inc

Virginia #2-6

PO Box 8050 Edmond, OK. 73083 6-11s-22w Trego,KS

Job Ticket: 41047

DST#:5

ATTN: LeRoy Holt II

Test Start: 2010.12.02 @ 02:39:18

#### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

deg API

Mud Weight:

9.00 lb/gal 54.00 sec/qt Cushion Length: Cushion Volume: Water Salinity:

41000 ppm

Viscosity: Water Loss:

7.76 in<sup>3</sup>

Gas Cushion Type:

bbl

ft

Resistivity:

ohmm

Gas Cushion Pressure:

psig

Salinity: Filter Cake:

1900.00 ppm 1.00 inches

#### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
70.00	WM 40%W60%M	0.982
310.00	MW 20%M80%W	4.348
0.00	w/show of oil in tool	0.000

Total Length:

380.00 ft

Total Volume:

5.330 bbl

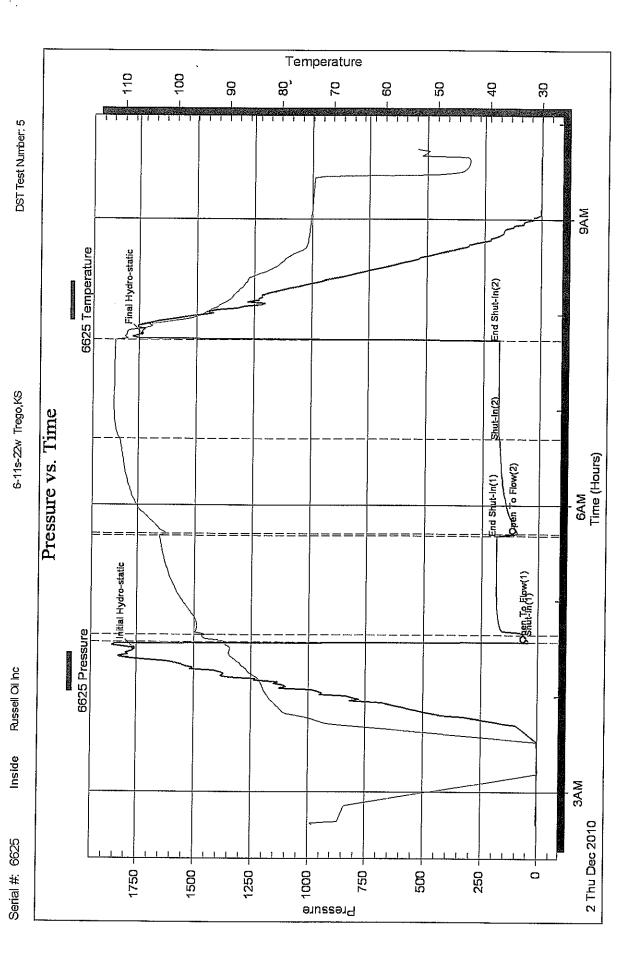
Num Fluid Samples: 0

Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.21@58F



Ref.

Trilobite Testing, Inc

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# **GEOLOGICAL REPORT PREPAIRED FOR**



Lease: VIRGINIA 2-6

**WILDCAT Field** 

Section 6, Township 11 South, Range 22 West

1,030'FNL & 2,350'FWL or SE-SE-NE-NW

TREGO COUNTY, KANSAS

API # 15-195-22, 688-00-00

Commenced: November 22, 2010

Completed: December 3, 2010

#### Geologist Report

Central Kansas Surveying, Great Bend, KS Location Sec. 6, T11S, R22W, SE, SE, NE, NW or 1030' From North Line, 2350' From West Line

2-6 Virginia lease is located in Section 6, Township 11 South, Range 22 West, in Trego County, Kansas. Approximately 8 miles north, 3.5 mile east, of Walkeeny, Kansas

G.L. = 2285 ft. K.B. = 2292 ft. D.F. =  $\sim$ 2290 ft. +/- Top of Kelly Bushing = 7 ft.

Spud - 11/22/10 Surface casing - New 8 5/8" set @ 264 ft. on 11/22/10 & e-logged at 264'

Southwind Drilling, Inc. - Rig #4, Ellinwood, KS; TP - Robert Stevens, DD - Bill Sanders, ED - Kevin Belcher, MD - Ken Thompson with four-person crews

MudCo, Inc. Great Bend, KS – Mud supplier & Drilling fluids daily mud monitoring – Gary Schmidtberger; Mud Type - Chemical in dug pit; water source from pond near location by Midwest Waterline Services, LLC Ron Wiesner

LogTech of Hays City, KS J.Shuler & M.Garrison - Electrical Logs/Down Hole (open) Microresistivety Log, Dual Compensated Porosity Log, Dual Induction Log- Logging Interpolation, Dale Legleiter with Computer Color Generated Log

RTD - 4000 ft. LTD - 4000 ft.

Sample collected wet-dry for reviewed from 3300 ft. to 4000 ft. 11/26/2010 through 12/03/2010 Dry sample are being held at this time.

Trilobite Testing Inc. Hays City, KS office; Tester-Ray Schwager; Five (5) Drill Stem Tests review:

DST #1 3521'-3559' IH 1624, FIF 27, FFF 26, ISI 919, SIF 26, SFF 26, FSI 868, FH1659 10-30-30-30 Recovered 5' mud,

DST #2 3559'-3590' IH 1683, FIF 24, FFF 30, ISI 802, SIF 31, SFF 56, FSI 751, FH1674 5-60-60-60 Recovered 20'mud w/ show of oil, 80%w, 20%m

DST #3 3630'-3680' IH 1716, FIF 21, FFF 31, ISI 491, SIF37, SFF 103, FSI 474, FH 1711 5-60-60-60 Recovered 20'm w/oil show, 120' so&gcm 55%gas, 6%o,89%m

DST #4 3690'3640' IH 1750, FIF 39, FFF 71, ISI 164, SIF 75, SFF 158, FSI 163,FH1723 5-60-60-60 Recovered 80'gip,40' so&gcwm 10%g,2%o,20%w,68%m

DST #5 3730'-3780' IH 1762, FIF 42, FFF 66, ISI 183, SIF 93, SFF 177, FSI 181, FH1737 5-60-60-60 Recovered 70'wm40%w, 60%m-310'mw82%w, 20%m

See attached Trilobite Testing DST reports for complete reporting.

Based on the sample review, the DST results and the electrical log the Virginia 2-6 was condemned and plugged with KCC approval to the total depth of 4000 ft. on 12/3/2010 by Southwind Drilling, Inc. Robert Stevenson Tool Pusher.

See Plugging report for Virginia 2-6.

VIRGINIA 2-6 Formation Tops

KB=2292'

FORMATION Top(s)	Sample Top(s)	E-Log Top(s)	Datum	McCallA#1
Stone Corral (Anhydrate)	1773'	1782'	(+510')	(+537)
Base of Anhydrate	1824'	1826'	(+510')	(+492)
Topeka	3316'	3318'	(-1024')	(-1023)
Heebner	3529'	3530'	(-1237')	(-1232)
Toronto	3550'	3550'	(-1258')	(-1256)
Lansing	3568'	3570'	(-1276')	(-1270)
Base of Kansas City	3799'	3800'	(-1507')	(-1498)
Arbuckle	3976'	3979'	(-1684')	(-1587)

A completed Wellsite plotted geologist report is attached.

The following Sample Review is based on samples with structure, slight shows, shows, hydrocarbon odor present. The DST number which covered this interval is also indicated.

<u>Toronto</u>	
3521'-3559'	Clear vuggy cherty dolomite in limestone with good odor, slight oil show, fair/weak porosity, good fluorescence, DST #1
Lansing /KC	, . ,
3559' -3590'	Dull white buff limestone good/fair odor, slight show of oil in few pieces, poor porosity, fair fluorescence, DST # 2
3630'-3680	Dull white tan crystalline limestone gray crinoid's fossils with slight oil show, good odor, fair fluorescence, DST #3
3690'-3740'	. Gray crystalline limestone with some oil stain, no free oil, fair fluorescence, DST #4
3730'-3780'	Dull gray crystalline limestone slightly vuggy with slight stain with fair odor, DST #5

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Prepared and respectfully submitted by,

Kevin J. Bailey, Wellsite Petroleum Geologist for:

