

ORIGINAL

Side Two

CONFIDENTIAL RECEIVED AUG 29 2002 KCC WICHITA

Operator Name: Russell Oil, Inc. Lease Name: Quint "A" Well #: 1
Sec. 19 Twp. 8 S. R. 22 East West County: Graham

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 string 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken [X] Yes No
Samples Sent to Geological Survey [] Yes [X] No
Cores Taken Yes [X] No
Electric Log Run [X] Yes No

List All E. Logs Run:

Dual Induction Log, Dual Compensated Porosity Log, Compensated Sonic Log, Sonic Cement Bond Log

Table with 3 columns: Log Name, Formation (Top), Depth and Datum, Sample Datum. Includes entries for Anhydrite, Topeka, Heebner, LKC, and Base LKC.

CASING RECORD table with columns: Purpose of String, Size Hole Drilled, Size Casing Set, Weight Lbs. / Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives.

ADDITIONAL CEMENTING / SQUEEZE RECORD table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD table with columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type, Acid, Fracture, Shot, Cement Squeeze Record, Depth.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run.

Table with Date of First, Resumed Production, SWD or Enhr. and Producing Method.

Table with Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas, METHOD OF COMPLETION, Production Interval. Includes checkboxes for Vented, Sold, Used on Lease, Open Hole, Perf., Dually Comp., Commingled.

DATE <u>5-9-02</u>	SEC <u>19</u>	TWP. <u>8</u>	RANGE <u>22</u>	CALLED OUT <u>10:00/11</u>	ON LOCATION <u>12:30/11</u>	JOB START <u>1:00/11</u>	JOB FINISH <u>1:30/11</u>
LEASE <u>Point</u>	WELL # <u>A-1</u>	LOCATION <u>Hill City 1E 2S</u>	COUNTY <u>Cherokee</u>	STATE <u>Ks</u>	KCC		
OLD OR NEW (Circle one)							

CONTRACTOR Shields OWNER _____
 TYPE OF JOB SURFACE AUG 27 2002

HOLE SIZE 12 1/4 T.D. _____ CEMENT _____
 CASING SIZE 8 5/8 20' DEPTH 279 AMOUNT ORDERED CONFIDENTIAL
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____

PRES. MAX	MINIMUM	COMMON	<u>105</u>	@	<u>65</u>	<u>698.25</u>
MEAS. LINE	SHOE JOINT	RELEASED	<u>70</u>	@	<u>355</u>	<u>248.50</u>
CEMENT LEFT IN CSG. <u>15</u>		FROM	<u>3</u>	@	<u>10.00</u>	<u>30.00</u>
PERFS.		THIORIDE	<u>5</u>	@	<u>30.00</u>	<u>150.00</u>
DISPLACEMENT <u>17.3</u>				@		

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Bill</u>					
# <u>177</u>	HELPER <u>SHANE</u>					<u>192.50</u>
BULK TRUCK						
# <u>213</u>	DRIVER <u>Glen</u>					<u>183.75</u>
BULK TRUCK						
# _____	DRIVER _____					<u>406.00</u>
TOTAL						<u>1716.50</u>
						<u>1726.25</u>

REMARKS: _____ SERVICE _____

Ran 6 blts 8 5/8
Set c 279
Cemt w/ 175 sls 60/403-2
Pump plug w/ 1 3/4 blts
Cemt did Cicc. ✓

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>520.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>58</u>	@	<u>3.00</u>
PLUG <u>8 5/8 Surf</u>	@	<u>45.00</u>
TOTAL		<u>739.00</u>

CHARGE TO: Russell Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL		_____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Burton Beery PRINTED NAME Burton Beery

RECEIVED
 AUG 29 2002
 KCC WICHITA

CONFIDENTIAL ALLIED CEMENTING CO., INC.

10665
ORIGINAL

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

SERVICE POINT _____

DATE <u>5/16/02</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:00A.M.</u>	JOB START	JOB FINISH <u>11:45A.M.</u>
LEASE <u>Quint</u>	WELL# <u>A-1</u>	LOCATION <u>Hill City 15 1/2 S</u>			COUNTY <u>Braham</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one)				<u>1/2 E N Twp</u>		KCC	

CONTRACTOR Shields OWNER _____ **AUG 27 2002**

TYPE OF JOB Long string
 HOLE SIZE 7 7/8 TD. 3680 CEMENT AMOUNT ORDERED **CONFIDENTIAL 200 Gal**
 CASING SIZE 5 1/2 DEPTH 3680 **500 Gal WFR-2**
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 1,823'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 16'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 89 Bbl. **WFR-2 500 gals @ 1.00 500.00**

EQUIPMENT **RELEASED FROM**
 PUMP TRUCK CEMENTER Brent
 # 127 HELPER Bill **CONFIDENTIAL**
 BULK TRUCK # 1102 DRIVER Brent HANDLING 150 @ 1.10 165.00
 BULK TRUCK # _____ DRIVER _____ MILEAGE 44/SK / Mile 300.00
 TOTAL 2318.00

REMARKS: SERVICE
Cent. # 1, 4, 7, 12, 13, 41
Basket #43 P.C. #44
Ran 500 gal. WFR-2 followed w/
1253x Asc. Displaced Plug
Float Held!
Rathole 155x
Moose 105x
Thank You!
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1130.00
 EXTRA FOOTAGE @ _____
 MILEAGE 58 @ 3.00 174.00
 PLUG 5 1/2 TRP @ _____ 80.00
 TOTAL 1354.00

CHARGE TO: Russell Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT
5 1/2
 Guide Shoe 1 @ _____ 150.00
 AFH Insert 1 @ _____ 235.00
 Centralizer 6 @ 50.00 300.00
 Basket 1 @ _____ 128.00
 Port Collar 1 @ _____ 175.00
 TOTAL 2563.00

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TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Burton Beery Burton Beery
 PRINTED NAME

RECEIVED
 MAY 29 2002
 KCC WICHITA

CONFIDENTIAL **ALLIED CEMENTING CO., INC.** 09975 **ORIGINAL**

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

SERVICE POINT:
Russell

DATE <u>6-7-02</u>	SEC.	TWP.	RANGE	CALLED OUT <u>8:00 am</u>	ON LOCATION <u>10:30 am</u>	JOB START <u>10:45 am</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Quit</u>	WELL # <u>A-1</u>	LOCATION <u>Hill City 1 S 1 E 1/2 S 1/2 E</u>		COUNTY <u>Grant</u>	STATE <u>KANSAS</u>		
OLD OR <u>NEW</u> (Circle one)				KCC			

CONTRACTOR Express Well Service OWNER Same **AUG 27 2002**

TYPE OF JOB KC. Squeeze CEMENT AMOUNT ORDERED 1500 **CONFIDENTIAL**

HOLE SIZE	T.D.	CEMENT
CASING SIZE <u>5 1/2</u>	DEPTH	AMOUNT ORDERED
TUBING SIZE <u>2 3/8</u>	DEPTH	
DRILL PIPE <u>(RICK)</u>	DEPTH	
TOOL JOINT <u>Reinforced Oil Tools</u>	DEPTH <u>3421</u>	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG.		
PERFS. <u>KC PERF @ 3501-06</u>		
DISPLACEMENT <u>T-123/4 C-260L</u>		

EQUIPMENT		COMMON	<u>150</u>	@	<u>665</u>	<u>997.50</u>
PUMP TRUCK	CEMENTER <u>Row</u>	POZMIX		@		
# <u>221</u>	HELPER <u>Glewn</u>	GEL		@		
BULK TRUCK		CHLORIDE		@		
# <u>282</u>	DRIVER			@		
BULK TRUCK				@		
#	DRIVER			@		
		HANDLING	<u>150</u>	@	<u>150</u>	<u>165.00</u>
		MILEAGE	<u>44 1/4</u>	@	<u>1.10</u>	<u>342.00</u>
		TOTAL				<u>1504.50</u>

REMARKS:

SERVICE

Set Packer @ 3421, Press Backside To 500# & Shut in, Took Inject Rate Down tubing at 4 BPM @ 700 Mixed 150 sk cement Staged, & Squeezed to 1200#. Released & washed around packer, Reset & pressured to 1200. Came out of hole w/packer. THANKS

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>630.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>57</u>	@ <u>3.00</u> <u>171.00</u>
PLUG	@	
	@	
	@	
TOTAL		<u>801.00</u>

CHARGE TO: Russell Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE _____

RELEASED
PRINTED NAME
FROM
CONFIDENTIAL

RECEIVED
AUG 29 2002
KCC WICHITA

ALLIED CEMENTING CO., INC.

10640
ORIGINAL

REMIT TO P.O. BOX 13
RUSSELL, KANSAS 67665

SERVICE POINT: R

DATE <u>8/17/02</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>9:30A.M.</u>	JOB START	JOB FINISH <u>12:00P.M.</u>
LEASE <u>Quint</u>	WELL# <u>1</u>	LOCATION <u>Hill City 13 1E 12S 34E</u>			COUNTY <u>Graham</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one)							

KCC

AUG 27 2002

CONTRACTOR Express

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2" DEPTH _____

TUBING SIZE 2" DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH 1823'

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 375 640 10725

1/4" # Flo

USED 2255x

COMMON	<u>135</u>	@	<u>665</u>	<u>897.75</u>
POZMIX	<u>90</u>	@	<u>355</u>	<u>319.50</u>
GEL	<u>16</u>	@	<u>10.00</u>	<u>160.00</u>
CHLORIDE		@		
<u>Flo Seal</u>	<u>57#</u>	@	<u>1.40</u>	<u>79.80</u>
		@		
		@		
		@		
		@		
HANDLING	<u>375</u>	@	<u>1.10</u>	<u>412.50</u>
MILEAGE	<u>44/SK</u>	@	<u>19.15</u>	<u>855.00</u>
TOTAL				<u>2724.55</u>

CONFIDENTIAL

EQUIPMENT

PUMP TRUCK CEMENTER Paul

177 HELPER Darin

BULK TRUCK

302 DRIVER Brent

BULK TRUCK

_____ DRIVER _____

REMARKS:

B.P. @ 3000 - Test to 100psi
circ hole clean. Opened port collar.
Broke circulation. Circulated
cement w/ 2255x cement. Closed
tool dress to 100psi. Ran site.
washed clean.

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 630.00

EXTRA FOOTAGE @ _____

MILEAGE 57 @ 3.00 171.00

PLUG @ _____

TOTAL 801.00

CHARGE TO: Russell Oil

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE _____

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FROM
PRINTED NAME
CONFIDENTIAL

Report Copy

KCC

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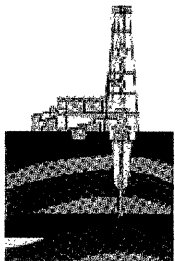
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Geological Report

RELEASED
FROM
CONFIDENTIAL

for



Russell Oil, Inc.

Exploration & Production

3535 N.W. 58th Street • Suite 1060
Oklahoma City, OK 73112

No. 1 Quint "A"
SE-SW-SE, Sec. 19-8S-22W
Graham County, Kansas

Todd E. Morgenstern
Petroleum Geologist
Sunflower Bank Building
P.O. Box 251
Ellinwood, Kansas 67526

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OPERATOR: Russell Oil, Inc. CONFIDENTIAL

WELL: No.1 Quint "A"
API # 15-065-22,829-00-00

LOCATION: SE-SW-SE
330' from the South Line
1650' from the East Line
Section 19-8S-22W
Graham County, Kansas

FIELD: Hill City East (Ext.)

CONTRACTOR: Shields Drilling Co., Rig No. 2

DRILLING COMMENCED: 05-08-2002

DRILLING COMPLETED: 05-16-2002

DRILLING TIME: One (1) foot drilling time was recorded
from 3100' to 3680' RTD.

SAMPLES: Samples were saved and examined from 3150'
to 3680' RTD.

ELEVATIONS: 2170' Ground Level 2175' Kelly Bushing

MEASUREMENTS: All depths are measured from 2175' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 278' with 165 sxs.

FORMATION TESTING: Five (5) tests were run by Trilobite Testing Co. LLC
Dan Bangle, Tester

MUD: Mud-Co, Inc. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech: (CNL/CDL, DIL, SONIC)

PRODUCTION: OIL

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FORMATION TOPS:

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FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	1785'	1786'	+ 389'
BASE ANHYDRITE	1821'	1821'	+ 354'
TOPEKA	3170'	3171'	-996'
HEEBNER SHALE	3387'	3388'	-1213'
TORONTO	3409'	3410'	-1235'
LANSING	3424'	3422'	-1247'
BASE KANSAS CITY	3641'	3641'	-1466'
LOG TOTAL DEPTH	3680'	3680'	-1505'
ROTARY TOTAL DEPTH	3680'	3880'	-1505'

SAMPLE DESCRIPTIONS AND TEST DATA: All depths have been corrected to log measurements.

LANSING:

3422-3428 Limestone, tan and buff, finely crystalline, dense, with white chert, fossiliferous in part, with rare interfossiliferous and pinpoint porosity, very slight show of oil on break. (Perforate and test before abandoning.)

3458-3466 Limestone, white and cream, finely crystalline, dense, oolitic and fossiliferous, with fair visible interoolitic and fossilcast porosity, fair spotted staining and saturation, fair show of free oil, questionable lightodor. (Covered by D.S.T. No. 1)

FORMATION TEST NO. 1

Lansing ('35')
Tested from 3444'-3469'

		I.H.P.	1657#
<i>Weak 1" Blow, Tool slid 10' to bottom</i>	30 min.	I.F.P.	37# -123#
<i>No Blow-Back</i>	30 min.	<u>I.S.I.P.</u>	<u>1062#</u>
<i>No Blow, Flushed tool / no help</i>	30 min.	F.F.P.	106# -108#
<i>No Blow-Back</i>	30 min.	<u>F.S.I.P.</u>	<u>1029#</u>
		F.H.P.	1644#

RECOVERY: 150' Mud w/ Oil Spots

TEMPERATURE: 101*

CHLORIDES: N/A ppm (Recovery) 500 ppm (System)

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3474-3483 Limestone, white and cream, dense to finely crystalline, oolitic in-part, no shows of oil were noted.

3501-3506 Limestone, white and cream, finely crystalline, oolitic and fossiliferous, with fair to good visible interoolitic and fossiliferous porosity, slightly vugular, with fair dark spotted staining and saturation, slight show of free oil, no odor. (Covered by D.S.T. No. 2)

KCC

<u>FORMATION TEST NO. 2</u>		AUG 27 2002	
Lansing (70' & 90')			
Tested from 3476'-3507'			
	CONFIDENTIAL	I.H.P.	1689#
<i>Weak building to 6 1/2 inches</i>	30 min.	I.F.P.	17# -82#
<i>Weak Blow-Back</i>	45 min.	<u>I.S.I.P.</u>	<u>1036#</u>
<i>Strong-B.O.B. in 30 minutes</i>	30 min.	F.F.P.	85# -136#
<i>Weak Blow-Back</i>	45 min.	<u>F.S.I.P.</u>	<u>1018#</u>
		F.H.P.	1675#
RECOVERY:	216' Gas In Pipe 278' Heavy Mud Cut OIL (Oil 60%, Mud 40%)		
TEMPERATURE:	106*		
CHLORIDES:	N/A ppm (Recovery) 500 ppm (System)		

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3560-3568 Limestone, white and gray, finely crystalline, dense, slightly fossiliferous and oolitic, with poor visible interoolitic and fossiliferous porosity, trace of free oil on break, rare spotted staining, no odor. (Covered by D.S.T. No. 3)

3581-3585 Limestone, white, finely crystalline, oolitic and fossiliferous, with poor to fair interoolitic and fossiliferous porosity, fair spotted staining and saturation, with slight show of gassy free oil, no odor. (Covered by D.S.T. No. 3)

<u>FORMATION TEST NO. 3</u>			
Lansing (140' & 160')			
Tested from 3535'-3585'			
		I.H.P.	1733#
<i>Weak, Dead in 15 min.</i>	30 min.	I.F.P.	16# -18#
<i>No Blow-Back</i>	30 min.	<u>I.S.I.P.</u>	<u>28#</u>
<i>No Blow</i>	30 min.	F.F.P.	18# -18#
<i>No Blow-Back</i>	30 min.	<u>F.S.I.P.</u>	<u>25#</u>
		F.H.P.	1712#
RECOVERY:	1' Mud with Oil Specks		
TEMPERATURE:	N/A		
CHLORIDES:	N/A ppm (Recovery) 1,000 ppm (System)		

3595-3604 Limestone, white and gray, finely crystalline, fossiliferous and oolitic, with poor visible fossiliferous and interoolitic porosity, rare spotted staining, slight show of free oil on break, no odor.

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3617-3622 Limestone, white and gray, dense to finely crystalline, fossiliferous and slightly oolitic, with fair visible interfossiliferous porosity, fair dark spotted staining, fair show of free oil, light odor. (Covered by D.S.T. No. 4 & 5)

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FORMATION TEST NO. 4

Lansing (180' & 200')
Tested from 3585'-3622'

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Packer Failure (Mis-run)

I.H.P.

1760#

I.F.P.

I.S.I.P.

F.F.P.

F.S.I.P.

F.H.P.

1756#

RECOVERY: 200' Drilling Mud

TEMPERATURE: N/A

CHLORIDES: N/A ppm (Recovery) 1,000 ppm (Sysyem)

FORMATION TEST NO. 5

Lansing (200')
Tested from 3603'-3622'

Weak, Dead in 15 min.

30 min.

I.H.P.

1774#

No Blow-Back

30 min.

I.F.P.

13# -16#

No Blow

30 min.

I.S.I.P.

189#

No Blow-Back

30 min.

F.F.P.

16# -17#

F.S.I.P.

96#

F.H.P.

1751#

RECOVERY: 2' Mud

TEMPERATURE: 104*

CHLORIDES: N/A ppm (Recovery) 2,000 ppm (Sysyem)

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DRILLING RECORD:

CONFIDENTIAL

<u>Date Daily</u>	<u>Drilling Record</u>
05-08-02 7:00 AM	Move in and rig up. Spud well.
05-09-02 7:00 AM	Drilling depth @ 278' Set 8 5/8" @ 260' w/ 165 sxs.
05-10-02 7:00 AM	Drilling depth @ 1640'.
05-11-02 7:00 AM	Drilling depth @ 2530'.
05-12-02 7:00 AM	Drilling depth @ 3085'.
05-13-02 7:00 AM	Drilling depth @ 3165'. DST No. 1 & DST No. 2
05-14-02 7:00 AM	Drilling depth @ 3585'. DST No. 3 & DST No. 4
05-15-02 7:00 AM	Drilling depth @ 3622' DST No. 5
05-16-02 7:00 AM	Ran 5 1/2 " Production casing

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KCC WICHITA

STRUCTURAL COMPARISON:

	Russell Oil No.1 Quint "A" SE-SW-SE Sec. 19-8S-22W Graham Co. KS	M.C. Hoover No.1 Quint SW-NW-SE Sec. 19-8S-22W Graham Co. KS
ANHYDRITE	+ 389'	+385'
BASE ANHYDRITE	+ 354'	+354'
TOPEKA	-996'	- 997'
HEEBNER SHALE	-1213'	-1215'
TORONRO	-1235'	-1237'
LANSING	-1247'	-1251'
BASE KANSAS CITY	-1466'	-1470'

SUMMARY:

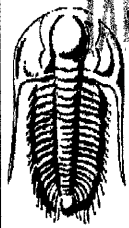
The subject well was under geological supervision from 3100'to 3880'RTD. With the positive results of D.S.T. No. 2 and after reviewing the open hole logs, it was decided to run 5 1/2" production casing and complete this well through perforations.

Recommended Perforations
3501-3505

Perforate before Abandoning
3459-3462
3423-3427

Respectfully submitted,

Todd E. Morgenstern
Todd E. Morgenstern



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112
ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15796 **DST#: 1**
Test Start: 2002.05.13 @ 07:09:36

GENERAL INFORMATION:

Formation: **35'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:43:35
Time Test Ended: 12:20:05

KCC

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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: **3444.00 ft (KB) To 3469.00 ft (KB) (TVD)**
Total Depth: 3469.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 2357

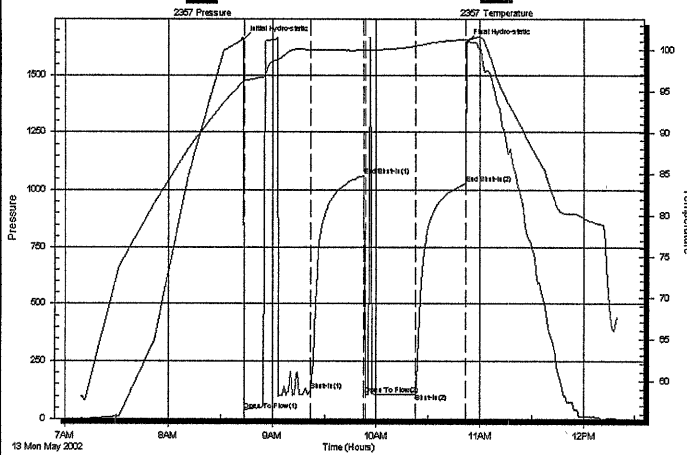
Inside

Press@RunDepth: 108.55 psig @ 3445.01 ft (KB)
Start Date: 2002.05.13 End Date: 2002.05.13
Start Time: 07:09:36 End Time: 12:20:05

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.05.13 @ 08:43:05
Time Off Btm: 2002.05.13 @ 10:52:35

TEST COMMENT: IF-Weak 1/2" steady blow
FF-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.98	96.18	Initial Hydro-static
1	37.49	96.22	Open To Flow (1)
39	123.45	100.00	Shut-In(1)
70	1062.15	99.94	End Shut-In(1)
71	106.31	99.95	Open To Flow (2)
100	108.55	100.46	Shut-In(2)
129	1029.42	101.28	End Shut-In(2)
130	1643.22	101.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud W/Oil spots	0.74

Gas Rates

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

ORIGINAL

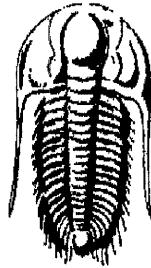
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**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company Inc**

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

ATTN: Leroy Holt

19-8s-22w-Graham-Ks

Quint #1

Start Date: 2002.05.13 @ 07:09:36

End Date: 2002.05.13 @ 12:20:05

Job Ticket #: 15796 DST #: 1

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

Russell Oil Company Inc

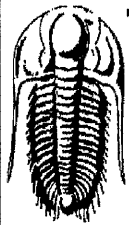
Quint #1

19-8s-22w-Graham-Ks

DST # 1

35'

2002.05.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15796

DST#: 1

ATTN: Leroy Holt

Test Start: 2002.05.13 @ 07:09:36

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: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Mud W/Oil spots	0.738

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

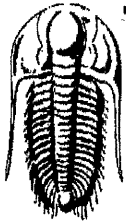
Laboratory Name:

Laboratory Location:

Recovery Comments:

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ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15796 **DST#: 1**
Test Start: 2002.05.13 @ 07:09:36

Tool Information

Drill Pipe:	Length: 3045.00 ft	Diameter: 3.80 inches	Volume: 42.71 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.25 inches	Volume: 2.02 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 44.73 bbl</u>	Tool Chased:	0.01 ft
Drill Pipe Above KB:	32.01 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3444.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.02 ft				
Tool Length:	46.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:
Slid tool 10' to bottom
Flushed tool on FF

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3424.00	
S.I. Tool	5.00			3429.00	
HMV	5.00			3434.00	
Packer	5.00			3439.00	21.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Recorder	0.01	2357	Inside	3445.01	
Perforations	21.00			3466.01	
Recorder	0.01	13254	Outside	3466.02	
Bullnose	3.00			3469.02	25.02 Bottom Packers & Anchor
Total Tool Length:	46.02				

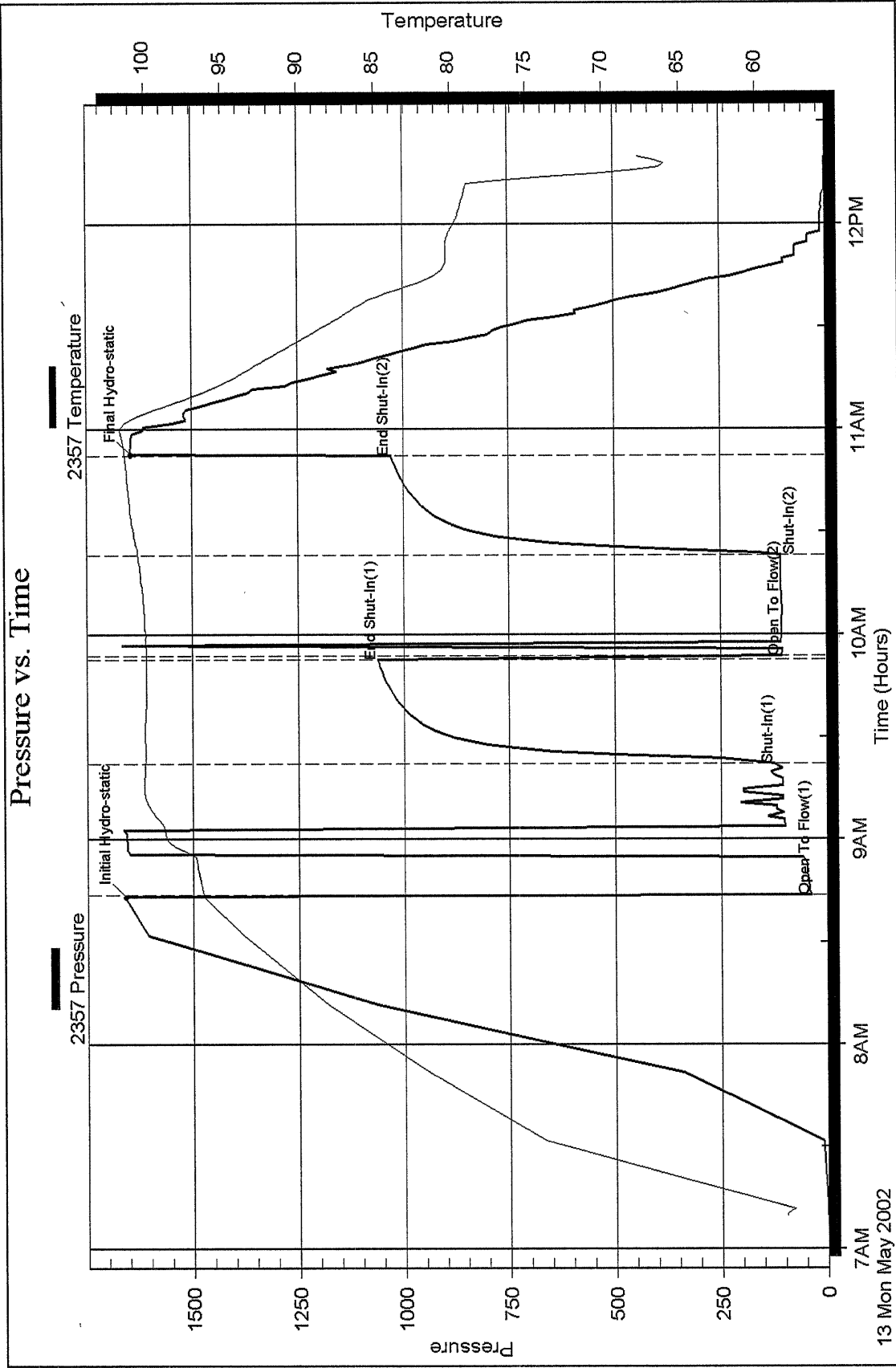
Serial #: 2357

Inside

Russell Oil Company Inc

19-8s-22w-Graham-Ks

DST Test Number: 1



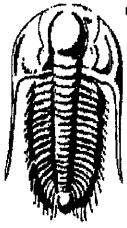
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112
ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15797 **DST#: 2**
Test Start: 2002.05.13 @ 20:05:52

GENERAL INFORMATION:

Formation: **70' LK**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:53:22
Time Test Ended: 02:27:22

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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: **3476.00 ft (KB) To 3507.00 ft (KB) (TVD)**
Total Depth: 3507.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 2357

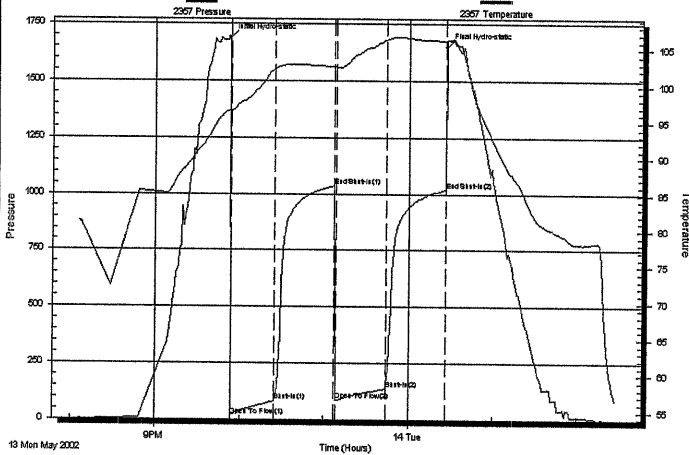
Inside

Press@RunDepth: 136.13 psig @ 3477.01 ft (KB)
Start Date: 2002.05.13 End Date: 2002.05.14
Start Time: 20:05:53 End Time: 02:27:22

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.05.13 @ 21:52:52
Time Off Btm: 2002.05.14 @ 00:26:52

TEST COMMENT: IF-Weak building to 6 1/2"
FF-Strong BOB in 30 min
Times-30-45-30-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.38	96.73	Initial Hydro-static
1	17.35	96.73	Open To Flow (1)
32	82.70	102.40	Shut-In (1)
75	1036.43	102.71	End Shut-In (1)
76	85.56	102.69	Open To Flow (2)
111	136.13	106.32	Shut-In (2)
154	1018.89	106.18	End Shut-In (2)
154	1650.13	106.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
278.00	HMCO 60%o 40%m	1.37
216.00	GIP	1.83

Gas Rates

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

ORIGINAL

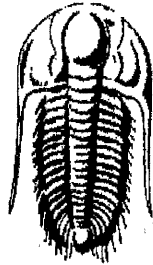
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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company Inc**

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Oklahoma City, OK 73112

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ATTN: Leroy Holt

19-8s-22w-Graham-Ks

Quint #1

Start Date: 2002.05.13 @ 20:05:52

End Date: 2002.05.14 @ 02:27:22

Job Ticket #: 15797 DST #: 2

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

Russell Oil Company Inc

Quint #1

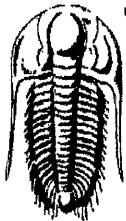
19-8s-22w-Graham-Ks

DST # 2

70'

LK

2002.05.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15797

DST#: 2

ATTN: Leroy Holt

Test Start: 2002.05.13 @ 20:05:52

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
278.00	HMCO 60%o 40%m	1.367
216.00	GIP	1.827

Total Length: 494.00 ft

Total Volume: 3.194 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15797

DST#: 2

ATTN: Leroy Holt

Test Start: 2002.05.13 @ 20:05:52

Tool Information

Drill Pipe:	Length: 3048.00 ft	Diameter: 3.80 inches	Volume: 42.76 bbl	Tool Weight: 1100.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.25 inches	Volume: 2.02 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.78 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	3.01 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3476.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.02 ft			
Tool Length:	52.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3456.00	
S.I. Tool	5.00			3461.00	
HMV	5.00			3466.00	
Packer	5.00			3471.00	21.00 Bottom Of Top Packer
Packer	5.00			3476.00	
Stubb	1.00			3477.00	
Recorder	0.01	2357	Inside	3477.01	
Perforations	27.00			3504.01	
Recorder	0.01	13254	Outside	3504.02	
Bullnose	3.00			3507.02	31.02 Bottom Packers & Anchor
Total Tool Length:	52.02				

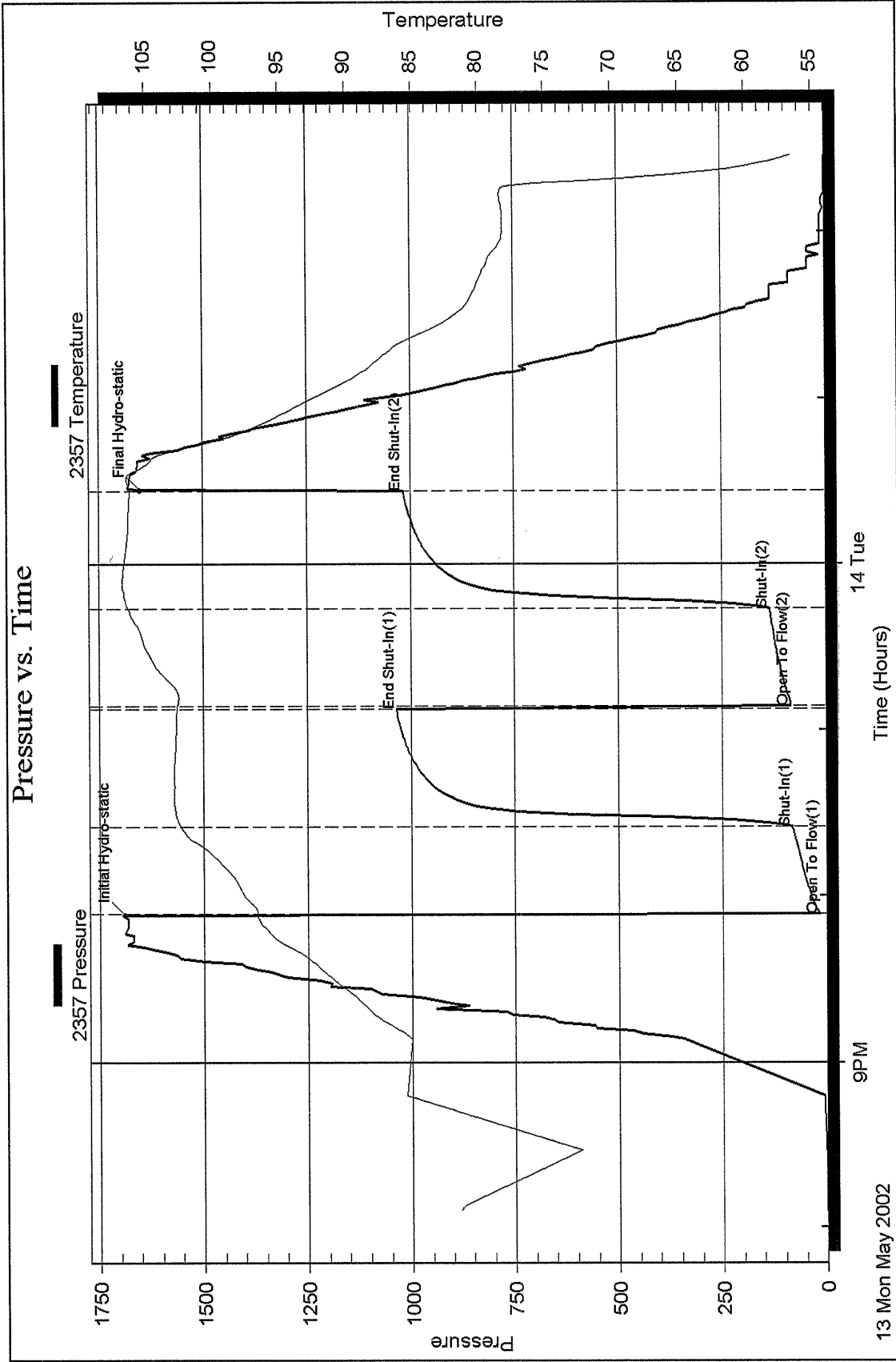
Serial #: 2357

Inside

Russell Oil Company Inc

19-8s-22w -Graham-Ks

DST Test Number: 2

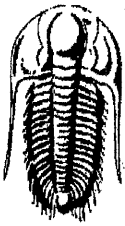


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Trilobite Testing, Inc

Ref. No: 15797

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15798

DST#: 3

ATTN: Leroy Holt

Test Start: 2002.05.14 @ 14:01:23

GENERAL INFORMATION:

Formation: **140'-160'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:45:23
Time Test Ended: 19:14:53

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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: **3535.00 ft (KB) To 3585.00 ft (KB) (TVD)**
Total Depth: 3585.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

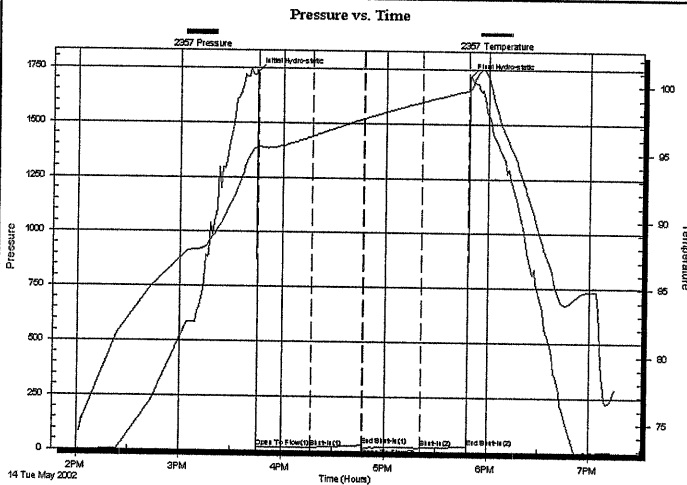
Serial #: 2357

Inside

Press@RunDepth: 18.93 psig @ 3539.01 ft (KB)
Start Date: 2002.05.14 End Date: 2002.05.14
Start Time: 14:01:24 End Time: 19:14:53

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.05.14 @ 15:44:53
Time Off Btm: 2002.05.14 @ 17:48:53

TEST COMMENT: IF-Weak died in 15 min
FF-No blow
Times-30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.46	95.44	Initial Hydro-static
1	16.27	95.47	Open To Flow (1)
32	18.33	96.24	Shut-In(1)
62	28.26	97.56	End Shut-In(1)
63	17.93	97.57	Open To Flow (2)
97	18.93	98.84	Shut-In(2)
124	25.16	99.70	End Shut-In(2)
124	1712.61	99.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud W/ oil spots	0.00

Gas Rates

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

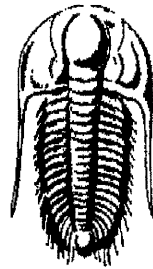
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**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company Inc**

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

ATTN: Leroy Holt

19-8s-22w-Graham-Ks

Quint #1

Start Date: 2002.05.14 @ 14:01:23

End Date: 2002.05.14 @ 19:14:53

Job Ticket #: 15798 DST #: 3

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Russell Oil Company Inc

Quint #1

19-8s-22w-Graham-Ks

DST # 3

140'-160'

2002.05.14



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15798

DST#: 3

ATTN: Leroy Holt

Test Start: 2002.05.14 @ 14:01:23

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud W/ oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

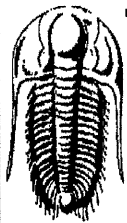
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15798

DST#: 3

ATTN: Leroy Holt

Test Start: 2002.05.14 @ 14:01:23

Tool Information

Drill Pipe:	Length: 3109.00 ft	Diameter: 3.80 inches	Volume: 43.61 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.25 inches	Volume: 2.02 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.63 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	5.01 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3535.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.02 ft			
Tool Length:	71.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3515.00	
S.I. Tool	5.00			3520.00	
HMV	5.00			3525.00	
Packer	5.00			3530.00	21.00 Bottom Of Top Packer
Packer	5.00			3535.00	
Stubb	1.00			3536.00	
Perforations	3.00			3539.00	
Recorder	0.01	2357	Inside	3539.01	
C.O. Sub	1.00			3540.01	
Blank Spacing	31.00			3571.01	
C.O. Sub	1.00			3572.01	
Recorder	0.01	13254	Outside	3572.02	
Perforations	10.00			3582.02	
Bullnose	3.00			3585.02	50.02 Bottom Packers & Anchor

Total Tool Length: 71.02

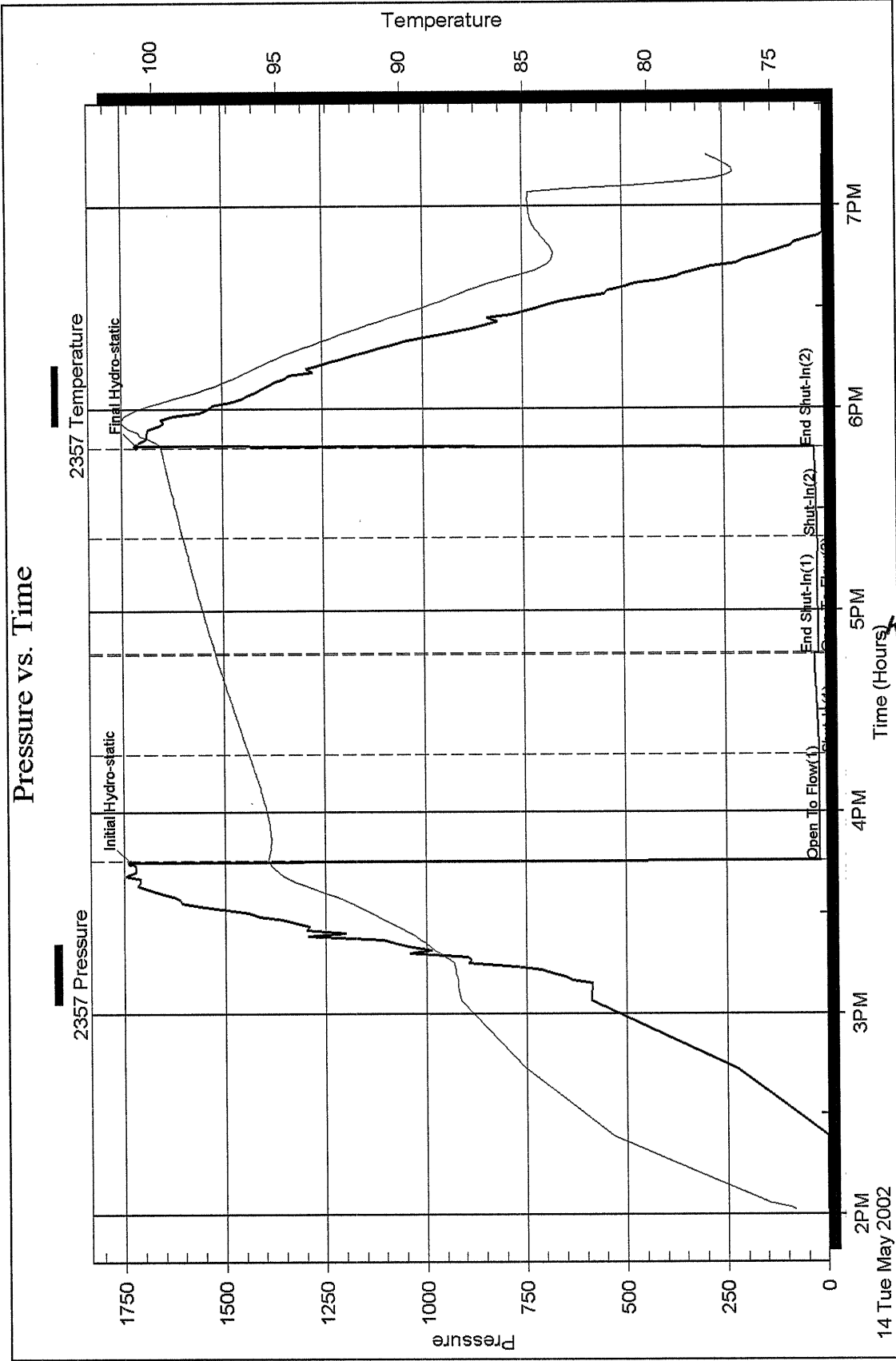
Serial #: 2357

Inside

Russell Oil Company Inc

19-8s-22w -Graham-Ks

DST Test Number: 3



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Trilobite Testing, Inc

Ref. No: 15798

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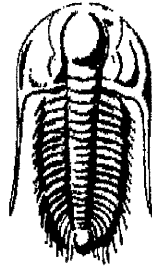
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company Inc**

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

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ATTN: Leroy Holt

19-8s-22w-Graham-Ks

Quint #1

Start Date: 2002.05.15 @ 04:29:17

End Date: 2002.05.15 @ 08:19:17

Job Ticket #: 15799 DST #: 4

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PO Box 362 Hays, KS 67601

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

Russell Oil Company Inc

Quint #1

19-8s-22w-Graham-Ks

DST # 4

180'-200'

L

2002.05.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112
ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15799 **DST#: 4**
Test Start: 2002.05.15 @ 04:29:17

GENERAL INFORMATION:

Formation: **180'-200' L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:20:00
Time Test Ended: 08:19:17

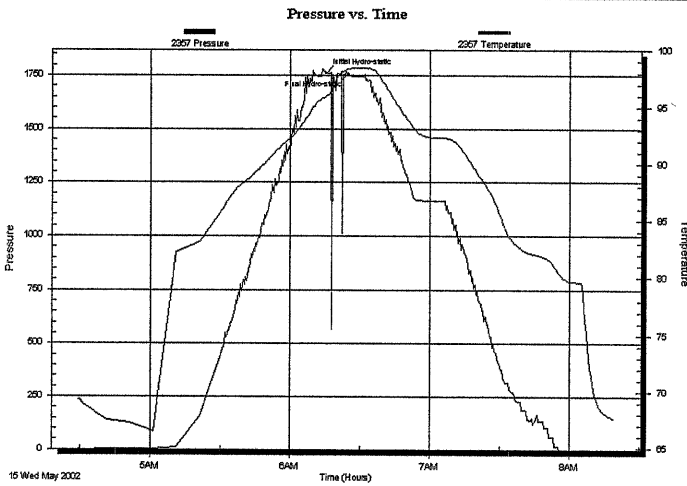
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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

Interval: **3585.00 ft (KB) To 3622.00 ft (KB) (TVD)**
Total Depth: 3622.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Serial #: 2357 Inside
Press@RunDepth: psig @ 3589.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.05.15 End Date: 2002.05.15 Last Calib.: 1899.12.30
Start Time: 04:29:18 End Time: 08:19:17 Time On Btm: 2002.05.15 @ 06:15:17
Time Off Btm: 2002.05.15 @ 06:24:47

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

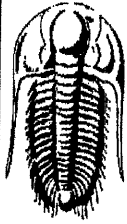
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.50	96.00	Initial Hydro-static
10	1756.33	98.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Drilling Mud	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15799

DST#: 4

ATTN: Leroy Holt

Test Start: 2002.05.15 @ 04:29:17

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Drilling Mud	0.984

Total Length: 200.00 ft Total Volume: 0.984 bbl

Num Fluid Samples: 0

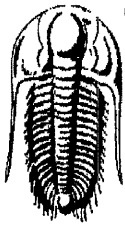
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112
ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15799 **DST#: 4**
Test Start: 2002.05.15 @ 04:29:17

Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 1200.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.25 inches	Volume: 2.02 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	19.01 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3585.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.02 ft			
Tool Length:	58.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Reset Packers 3 times

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3565.00	
S.I. Tool	5.00			3570.00	
HMV	5.00			3575.00	
Packer	5.00			3580.00	21.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Stubb	1.00			3586.00	
Perforations	3.00			3589.00	
Recorder	0.01	2357	Inside	3589.01	
Perforations	30.00			3619.01	
Recorder	0.01	13254	Outside	3619.02	
Bullnose	3.00			3622.02	37.02 Bottom Packers & Anchor

Total Tool Length: 58.02

Serial #: 2357

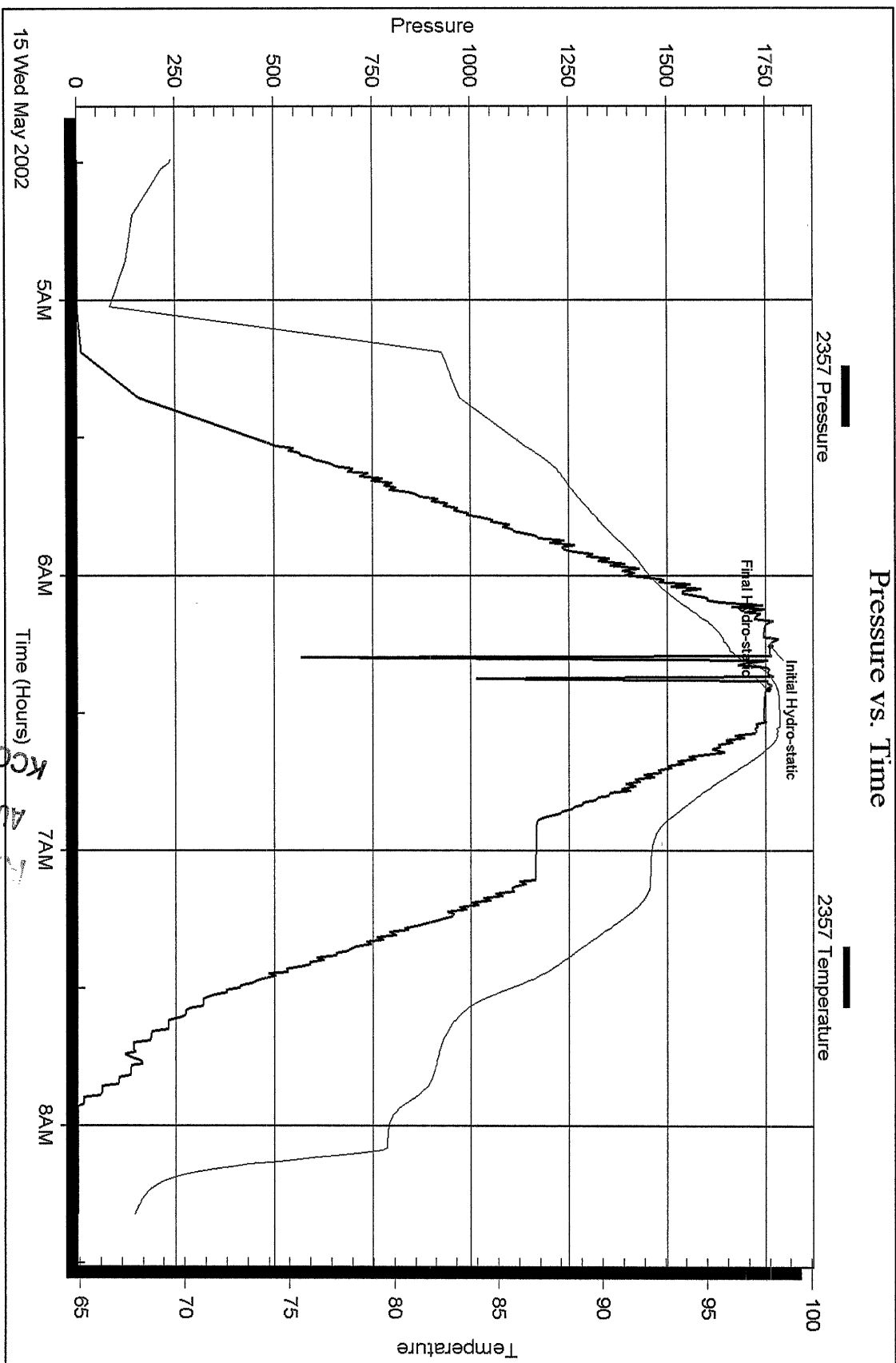
Inside

Russell Oil Company Inc

19-8s-22w-Graham-Ks

DST Test Number: 4

Pressure vs. Time



Tribolite Testing, Inc

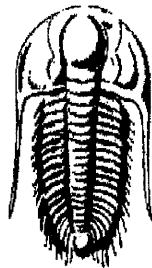
Ref. No: 15799

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company Inc**

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

ATTN: Leroy Holt

19-8s-22w-Graham-Ks

Quint #1

Start Date: 2002.05.15 @ 08:26:38

End Date: 2002.05.15 @ 13:10:38

Job Ticket #: 15800 DST #: 5

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FROM
CONFIDENTIAL

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

Russell Oil Company Inc

Quint #1

19-8s-22w-Graham-Ks

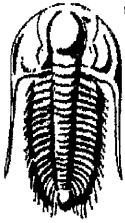
DST # 5

2002

2002.05.15

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ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Company Inc
3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112
ATTN: Leroy Holt

Quint #1
19-8s-22w-Graham-Ks
Job Ticket: 15800 DST#: 5
Test Start: 2002.05.15 @ 08:26:38

GENERAL INFORMATION:

Formation: 200'
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:46:08
Time Test Ended: 13:10:38

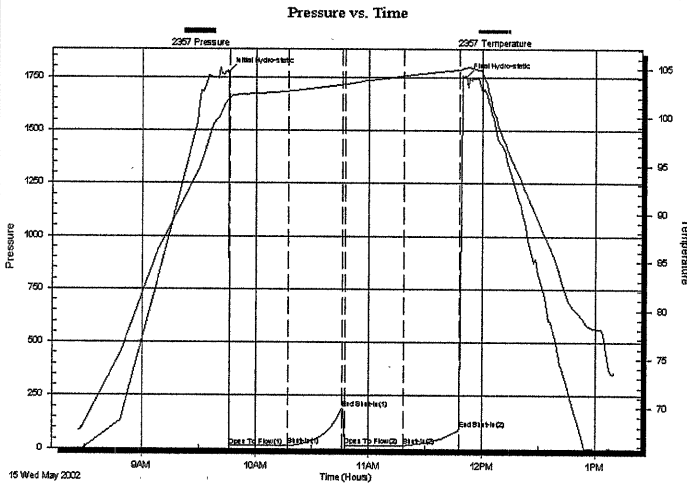
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Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

Interval: 3603.00 ft (KB) To 3622.00 ft (KB) (TVD)
Total Depth: 3622.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Serial #: 2357 Inside
Press@RunDepth: 17.81 psig @ 3604.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.05.15 End Date: 2002.05.15 Last Calib.: 1899.12.30
Start Time: 08:26:39 End Time: 13:10:38 Time On Btm: 2002.05.15 @ 09:45:38
Time Off Btm: 2002.05.15 @ 11:51:08

TEST COMMENT: IF-Weak died in 15 min
FF-No blow
Times-30-30-30-30



PRESSURE SUMMARY

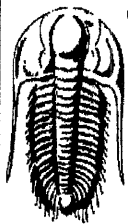
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.40	101.94	Initial Hydro-static
1	13.72	102.04	Open To Flow (1)
32	16.49	102.71	Shut-In (1)
60	189.30	103.39	End Shut-In (1)
62	16.91	103.42	Open To Flow (2)
93	17.81	104.29	Shut-In (2)
123	96.38	104.94	End Shut-In (2)
126	1751.57	105.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15800

DST#: 5

ATTN: Leroy Holt

Test Start: 2002.05.15 @ 08:26:38

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

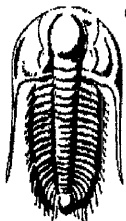
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company Inc

Quint #1

3535 N.W. 58th St. Ste 1060
Oklahoma City, OK 73112

19-8s-22w-Graham-Ks

Job Ticket: 15800

DST#: 5

ATTN: Leroy Holt

Test Start: 2002.05.15 @ 08:26:38

Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 1100.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.25 inches	Volume: 2.02 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	1.01 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3603.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.02 ft			
Tool Length:	40.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3583.00	
S.I. Tool	5.00			3588.00	
HMV	5.00			3593.00	
Packer	5.00			3598.00	21.00 Bottom Of Top Packer
Packer	5.00			3603.00	
Stubb	1.00			3604.00	
Recorder	0.01	2357	Inside	3604.01	
Perforations	15.00			3619.01	
Recorder	0.01	13254	Outside	3619.02	
Bullnose	3.00			3622.02	19.02 Bottom Packers & Anchor
Total Tool Length:	40.02				

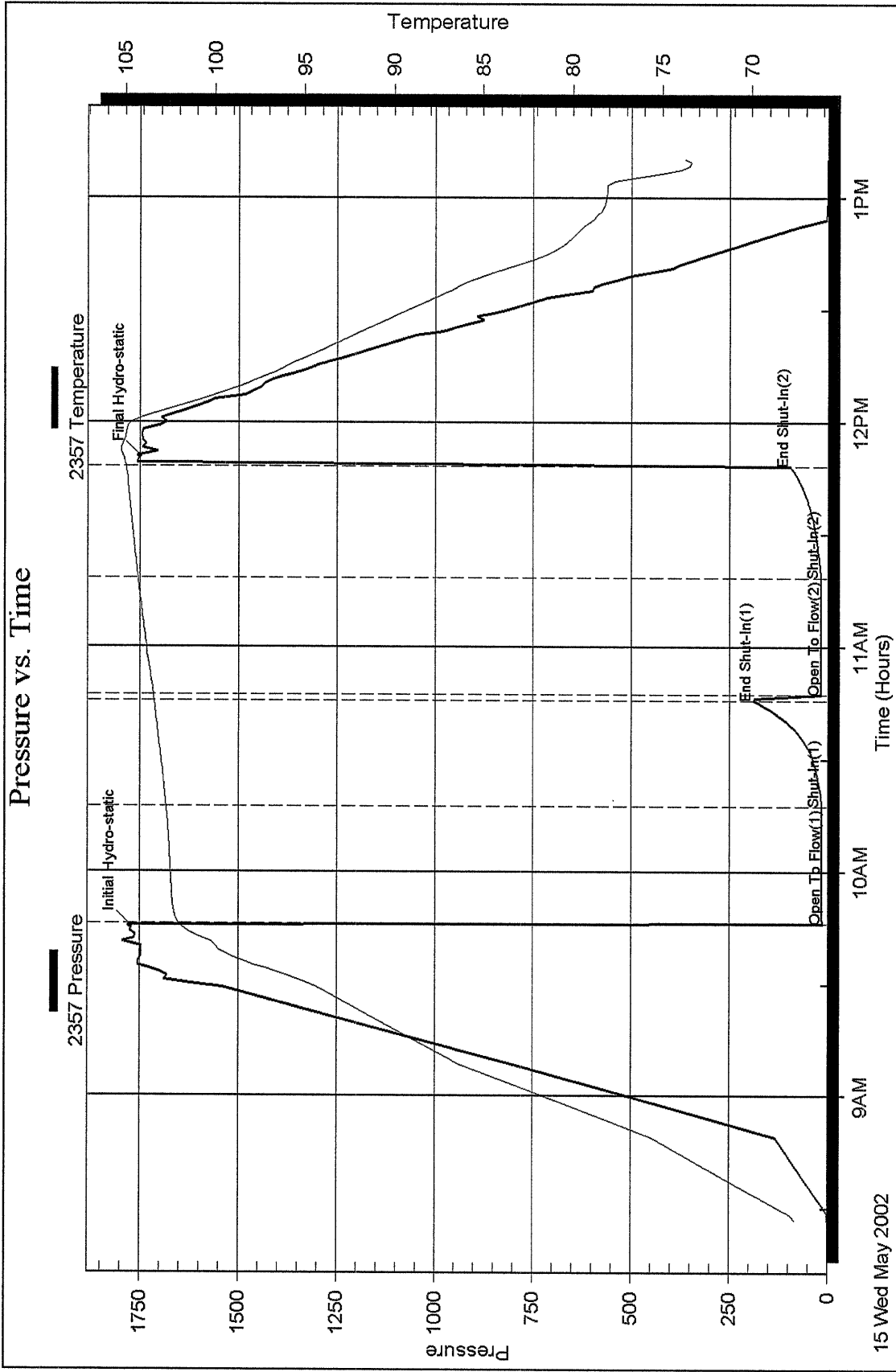
Serial #: 2357

Inside

Russell Oil Company Inc

19-8s-22w-Graham-Ks

DST Test Number: 5



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Triobite Testing, Inc

Ref. No: 15800

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