

CONFIDENTIAL

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SEP 10 2010

KCC WICHITA

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

9/8/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5046
Name: RAYMOND OIL COMPANY, INC.
Address 1: P.O. BOX 48788
Address 2:
City: WICHITA State: KS Zip: 67202 +
Contact Person: TED MCHENRY
Phone: (316) 267-4214
CONTRACTOR: License # 6039
Name: LD DRILLING, INC.
Wellsite Geologist: KIM SHOEMAKER

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Purchaser:
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other
(Core, WSW, Expl., Cathodic, 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
 Plug Back: Plug Back Total Depth
 Commingled Docket No.:
 Dual Completion Docket No.:
 Other (SWD or Enhr.?) Docket No.:
5/13/2010 5/27/2010 6/20/2010
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 109-20901-0000
Spot Description: 160' N & 76' W of
SW SE NW Sec. 1 Twp. 14 S. R. 32 East West
2150 Feet from North / South Line of Section
1574 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: LOGAN
Lease Name: STECKEL/DARNEY Well #: 1
Field Name: WILDCAT
Producing Formation: LKC, Marm
Elevation: Ground: 2875' Kelly Bushing: 2880'
Total Depth: 4720' Plug Back Total Depth: 4666
Amount of Surface Pipe Set and Cemented at: 249 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1855 Feet
If Alternate II completion, cement circulated from: 1855
feet depth to: SURFACE w/ 300 sx cmt.

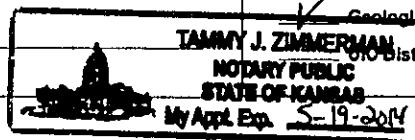
Drilling Fluid Management Plan *AT INJ 9-15-10*
(Data must be collected from the Reserve Pit)
Chloride content: 6500 ppm Fluid volume: 640 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp. S. R. East West
County: Docket No.:

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: *Ted McHenry*
Title: Geologist Date: 8/9/2010
Subscribed and sworn to before me this 8th day of September 2010
Notary Public: *Tammy J Zimmerman*
Date Commission Expires: 5/19/2014

KCC Office Use ONLY
 Letter of Confidentiality Received 9/8/10 - 9/8/12
If Denied, Yes Date:
 Wireline Log Received
 Geologist Report Received
Distribution



Operator Name: RAYMOND OIL COMPANY, INC. Lease Name: STECKEL/DARNEY Well #: 1
 Sec. 1 Twp. 14 S. R. 32 East West County: LOGAN

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: <i>N-D Micro End Sonic</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>B/Anh</td> <td>2377'</td> <td>+503</td> </tr> <tr> <td>Heeb</td> <td>3866'</td> <td>-986</td> </tr> <tr> <td>Marm</td> <td>4262</td> <td>-1382</td> </tr> <tr> <td>Cher</td> <td>4442</td> <td>-1562</td> </tr> <tr> <td>Miss</td> <td>4569</td> <td>-1689</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	B/Anh	2377'	+503	Heeb	3866'	-986	Marm	4262	-1382	Cher	4442	-1562	Miss	4569	-1689
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
Name	Top	Datum																				
B/Anh	2377'	+503																				
Heeb	3866'	-986																				
Marm	4262	-1382																				
Cher	4442	-1562																				
Miss	4569	-1689																				

CASING RECORD <input checked="" 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
SURFACE	12 1/4"	8 5/8"	23#	249'	COMMON	175	3%CC, 2%GEL
PRODUCTION - BOTTOM STAGE	7 7/8"	4 1/2"	10.5#	4712'	60/40 POZMIX	300	7.5%SALT, 2%GEL
PRODUCTION - TOP STAGE					LITE	475	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
		Amount	Kind	
2	Myric Sta 4398-4406	500 AC	- MCA	4398-4406
2	LKC 70' Zn 3984-96	500 AC	- MCA	3984-96

TUBING RECORD: Size: <u>2"</u> Set At: <u>4620'</u> Packer At:		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr.		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. <u>118</u>	Gas Mcf <u>15</u>	Water Bbls. <u>15</u> Gas-Oil Ratio <u> </u> Gravity <u> </u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Myric Sta</u> <u>LKC 70' Zn</u>
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CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 28718
LOCATION Oakley
FOREMAN Russell McCoy

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-28-2010	7138	#1 Steckel Darcy	1	14	32	LOGAN

CUSTOMER
Raymond Oil
MAILING ADDRESS
5730 North Broadway
CITY
Wichita STATE
KS ZIP CODE
67201

L.D.
Drg
Rig 1

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Shannon		
439	Brandon		
460	Allen B		

JOB TYPE Longstring HOLE SIZE 7 7/8 HOLE DEPTH 4720 CASING SIZE & WEIGHT 4 1/2 New 10.5
CASING DEPTH 4707 DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.2/12.5 SLURRY VOL 135 Bbl WATER gal/sk 6.5 CEMENT LEFT in CASING 41 Bottom stage
DISPLACEMENT 75 Bbl DISPLACEMENT PSI 800 MIX PSI RATE 5 BPM

REMARKS: Safety Meeting. Run float EQ centralizers 1, 3, 6, 9, 11, 15, 69th joints
cement basket # 67 D.V. Tool # 69 At 1855 Run casing to 4707 circulate for 30 min
After dropping ball, Rig 4 1/2 cement head to cement mix 300 60/40 Pozmix 2% Gel
1/2 Salt Displace w/ 75 Bbl 45 water 30 mud. Final Pump PSI 800 set plug at 1200 PSI
at 47 4666 Avg Book Depth. Check float float hold. Drop Trip Bomb for 2 stage
collar, wait 10 min open stage tool w/ 1200 PSI Pump 5 Bbl mud. Rig up m-d
Pump circulate for 2 hr. (Reload load Bulk Trucks) Stage 2 mix 400 SKs 60/40 Light
cement for top stage. Displace w/ 30 Bbl water final pump PSI 650⁺ Pump closing to 1200⁺
check tool float hold good cement returns to surface. Job complete, Tear Down.
Plug Rodhole w/ 25 SKs cement

THANKS Russell McCoy

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401A	1	PUMP CHARGE	2,950.00	2950.00
5406	20	MILEAGE Pump TK	4.50	90.00
1131	300	SKs 60/40 Pozmix Bottom	13.00	3900.00
1118B	500 [#]	= 2% Gel Stage	.20	100.00
1111	1200 [#]	= 7 1/2 % Salt	.40	480.00
1131	300 425	SKs 60/40 Pozmix TOP	13.00	5525.00
1118B	2,900 [#]	= 2% Gel STAGE	.20	580.00
1107	110 [#]	= 1/4 [#] Per SK	2.50	275.00
4156	1	4 1/2 AFV float shoe	252.00	252.00
4129	7	4 1/2 x 7 7/8 centralizers	44.00	308.00
4103	1	4 1/2 cement basket	249.00	249.00
4276	1	4 1/2 2 stage tool w/ plugs	3,280.00	3,280.00
5407	31.10 Ton	Bulk Trucks x 20 miles	1.50	935.40
		SubTOTAL		18,924.40
		Discount	20%	3,784.88
				15,139.52
		SALES TAX		941.80
		ESTIMATED TOTAL		16,081.32

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KCC WICHITA 234526

AUTHORIZATION [Signature] TITLE CO/Rep DATE 5-28-2010

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account received ticket May 29, 2010 11:04PM No. 2778 on the back of this form are in effect for services identified on this form

ALLIED CEMENTING CO., LLC. 039303

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

SERVICE POINT: 00464

KCC
SEP 10 2010

DATE <u>5-13-10</u>	SEC. <u>11</u>	TWP. <u>14</u>	RANGE <u>32</u>	ON LOCATION	JOB START <u>9:00pm</u>	JOB FINISH <u>9:30pm</u>
LEASE <u>steele Darney</u>	WELL # <u>1</u>	LOCATION <u>00464 205 2 E 2 N</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>1/2w 1/2N Winto</u>			

CONTRACTOR LD Drilling
 TYPE OF JOB surface
 HOLE SIZE 12 1/4 T.D. 252'
 CASING SIZE 8 5/8 DEPTH 249'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 14.90 BBL

OWNER same
 CEMENT
 AMOUNT ORDERED 175 sks com
390cc 200g cc

EQUIPMENT
 PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Latene
 BULK TRUCK
 # 347 DRIVER Jerry
 BULK TRUCK
 # _____ DRIVER _____

COMMON <u>175 sks</u>	@ <u>15.45</u>	<u>2703.75</u>
POZMIX	@	
GEL <u>3 sks</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE <u>8 sks</u>	@ <u>58.20</u>	<u>349.20</u>
ASC	@	
HANDLING <u>184 sks</u>	@ <u>2.40</u>	<u>441.60</u>
MILEAGE <u>108.5 H/mile</u>		<u>460.00</u>
		TOTAL <u>4016.95</u>

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REMARKS: KCC WICHITA

Cement did circulate
Thank you

CHARGE TO: Raymond oil co
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>249'</u>	
PUMP TRUCK CHARGE	<u>1018.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>25 miles</u>	@ <u>7.00</u> <u>175.00</u>
MANIFOLD	@
TOTAL <u>1193.00</u>	

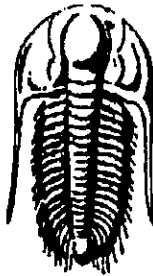
PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	
<u>1 surface plug</u>	@ <u>68.00</u>
TOTAL <u>68.00</u>	

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

PRINTED NAME DORAN J. Margheim
 SIGNATURE [Signature]

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.18 @ 22:36:49

End Date: 2010.05.19 @ 06:16:58

Job Ticket #: 37860 DST #: 1

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KCC WICHITA

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Raymond Oil Company

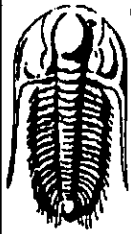
Steckel Darney #1

1-14s-32w Logan, Ks

DST # 1

35

2010.05.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

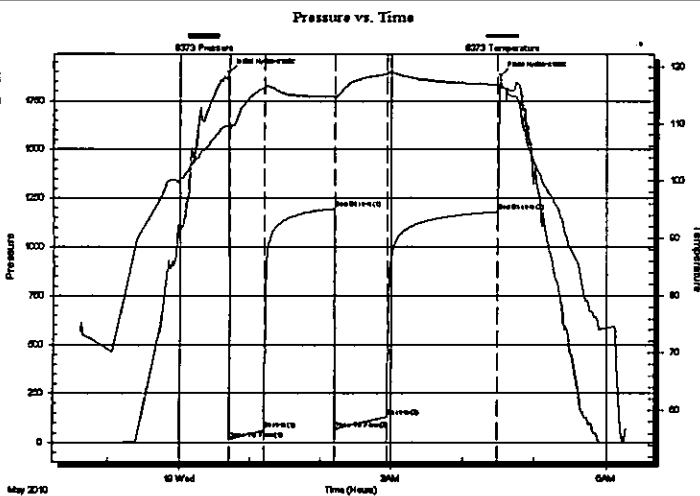
Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37860 DST#: 1
Test Start: 2010.05.18 @ 22:36:49

GENERAL INFORMATION:

Formation: 35
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:42:14
Time Test Ended: 06:16:58
Interval: 3926.00 ft (KB) To 3953.00 ft (KB) (TVD)
Total Depth: 3953.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 2880.00 ft (KB)
2875.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8373 **Inside**
Press@RunDepth: 128.42 psig @ 3927.00 ft (KB)
Start Date: 2010.05.18 End Date: 2010.05.19
Start Time: 22:36:49 End Time: 06:16:58
Capacity: 8000.00 psig
Last Calib.: 2010.05.19
Time On Btm: 2010.05.19 @ 00:41:29
Time Off Btm: 2010.05.19 @ 04:31:13

TEST COMMENT: IF: 1/4 blow BOB in 27 min.
IS: No return.
FF: 1/4 blow BOB in 44 min.
FS: No return.



PRESSURE SUMMARY

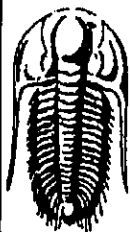
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.59	109.67	Initial Hydro-static
1	16.88	108.87	Open To Flow (1)
31	62.55	116.40	Shut-In (1)
90	1195.19	114.72	End Shut-In (1)
91	64.63	114.34	Open To Flow (2)
136	128.42	118.67	Shut-In (2)
228	1179.74	117.00	End Shut-In (2)
230	1882.03	116.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	1.74
124.00	mcw 60%w 40%m	1.74
1.00	free oil 100%o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37860

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2010.05.18 @ 22:36:49

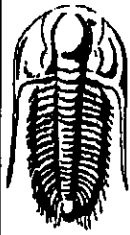
Tool Information

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.80 inches	Volume: 55.20 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3926.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3904.00	
Shut In Tool	5.00			3909.00	
Hydraulic tool	5.00			3914.00	
Safety Joint	3.00			3917.00	
Packer	5.00			3922.00	23.00 Bottom Of Top Packer
Packer	4.00			3926.00	
Stubb	1.00			3927.00	
Recorder	0.00	8373	Inside	3927.00	
Recorder	0.00	8289	Inside	3927.00	
Perforations	21.00			3948.00	
Bullnose	5.00			3953.00	27.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37860 DST#: 1
Test Start: 2010.05.18 @ 22:36:49

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	34000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.14 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

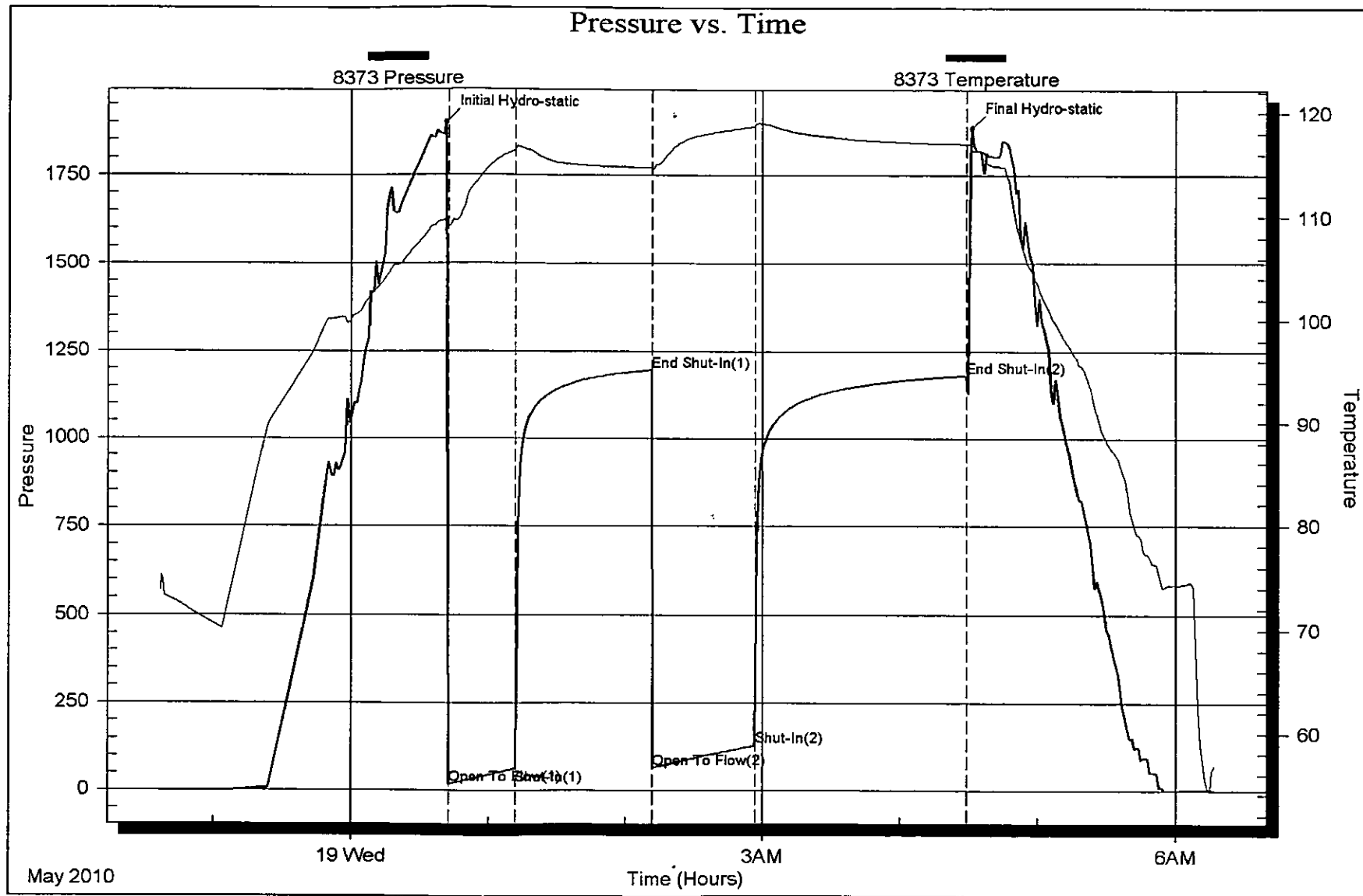
Length ft	Description	Volume bbl
124.00	mcw 90%w 10%m	1.739
124.00	mcw 60%w 40%m	1.739
1.00	free oil 100%o	0.014

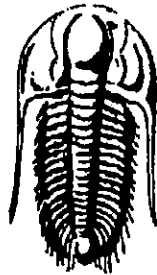
Total Length: 249.00 ft Total Volume: 3.492 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .21@73=34000





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.19 @ 17:02:39

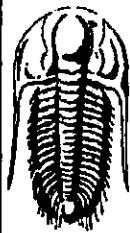
End Date: 2010.05.19 @ 22:39:03

Job Ticket #: 37861 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37861

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2010.05.19 @ 17:02:39

GENERAL INFORMATION:

Formation: **70-90**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:03:04

Time Test Ended: 22:39:03

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **3978.00 ft (KB) To 4005.00 ft (KB) (TVD)**

Total Depth: **4005.00 ft (KB) (TVD)**

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

Reference Elevations: **2880.00 ft (KB)**

2875.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **124.09 psig @ 3979.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.19**

End Date:

2010.05.19

Last Calib.: **2010.05.19**

Start Time: **17:02:39**

End Time:

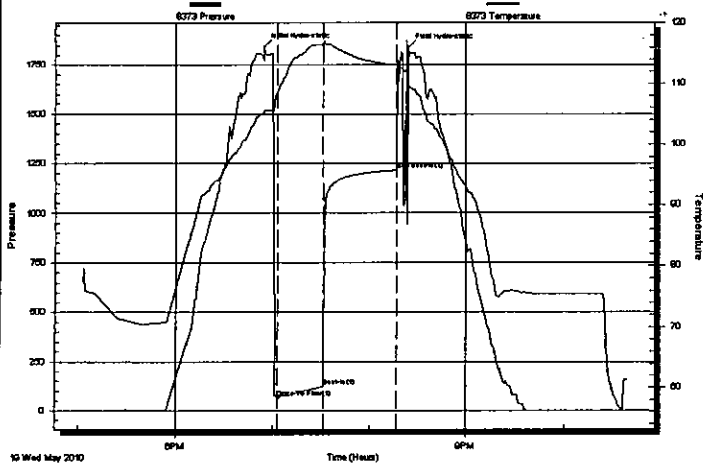
22:39:03

Time On Btm: **2010.05.19 @ 18:55:04**

Time Off Btm: **2010.05.19 @ 20:24:34**

TEST COMMENT: IF: 6" blow BOB in 5 min.
IS: Surface blow built to 2 1/2 in 45 min.
Pulled tool of afraid of being stuck tool pulled 130,000 to get free.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.25	105.29	Initial Hydro-static
8	63.26	108.46	Open To Flow (1)
37	124.09	116.50	Shut-In (1)
83	1215.90	113.07	End Shut-In (1)
90	1839.38	109.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	gocm 10%g 20%o 70%m	2.17
103.00	go 10%g 90%o	1.44
0.00	GIP 236	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37861

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2010.05.19 @ 17:02:39

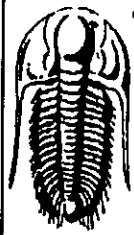
Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 3.80 inches	Volume: 55.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 130000.0 lb
			Total Volume: 55.66 bbl	Tool Chased 15.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3978.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3956.00	
Shut In Tool	5.00			3961.00	
Hydraulic tool	5.00			3966.00	
Safety Joint	3.00			3969.00	
Packer	5.00			3974.00	23.00 Bottom Of Top Packer
Packer	4.00			3978.00	
Stubb	1.00			3979.00	
Recorder	0.00	8373	Inside	3979.00	
Recorder	0.00	8289	Inside	3979.00	
Perforations	21.00			4000.00	
Bullnose	5.00			4005.00	27.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37861 DST#: 2
Test Start: 2010.05.19 @ 17:02:39

Mud and Cushion Information

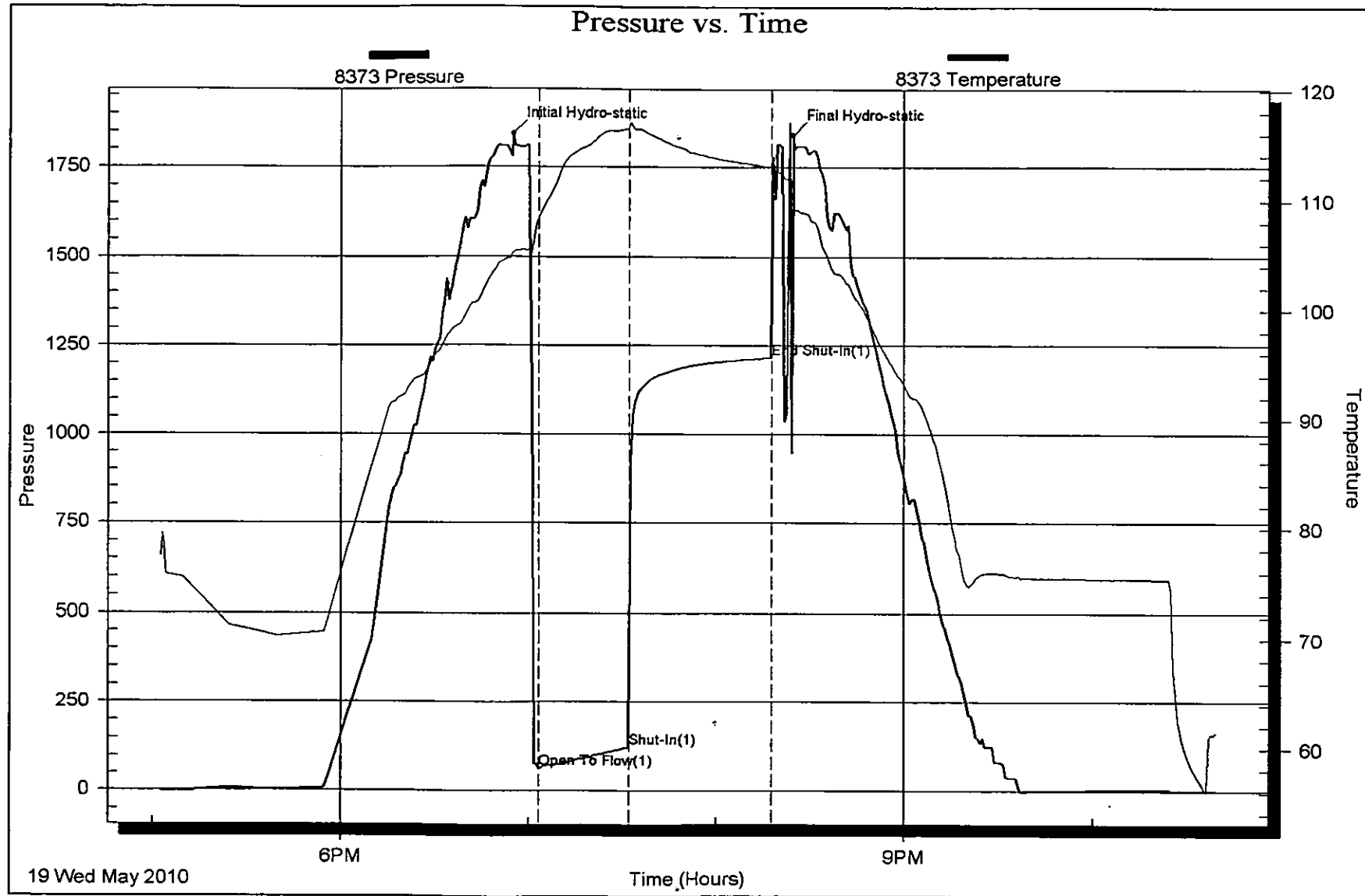
Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume:		
Water Loss: 7.14 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure:		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

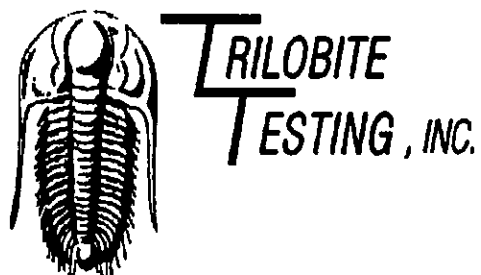
Recovery Table

Length ft	Description	Volume bbl
155.00	gocm 10%g 20%o 70%m	2.174
103.00	go 10%g 90%o	1.445
0.00	GIP 236	0.000

Total Length: 258.00 ft Total Volume: 3.619 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 36@60=36



19 Wed May 2010



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.20 @ 13:31:22

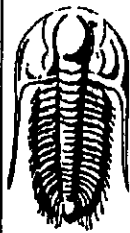
End Date: 2010.05.20 @ 21:11:46

Job Ticket #: 37862 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

ATTN: Kim Shoemaker

Job Ticket: 37862 DST#: 3

Test Start: 2010.05.20 @ 13:31:22

GENERAL INFORMATION:

Formation: **120- 140**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 15:28:47
 Time Test Ended: 21:11:46

Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Turley**
 Unit No: **35**

Interval: **4064.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: **4100.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**
2875.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8373

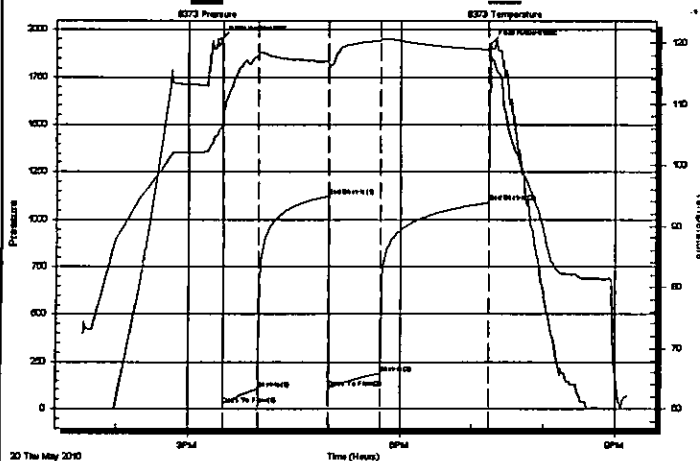
Inside

Press@RunDepth: **188.82 psig @ 4065.00 ft (KB)**
 Start Date: **2010.05.20** End Date: **2010.05.20**
 Start Time: **13:31:22** End Time: **21:11:46**

Capacity: **8000.00 psig**
 Last Calib.: **2010.05.20**
 Time On Btm: **2010.05.20 @ 15:27:17**
 Time Off Btm: **2010.05.20 @ 19:16:31**

TEST COMMENT: IF: 1" blow BOB in 11 min.
 IS: Surface blow built to 1/2 in 60 min.
 FF: 1/4 blow BOB in 20 min.
 FS: Surface blow never built.

Pressure vs. Time



PRESSURE SUMMARY

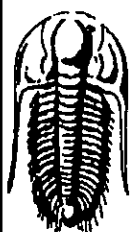
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.36	106.09	Initial Hydro-static
2	22.81	105.23	Open To Flow (1)
32	103.20	118.01	Shut-In(1)
91	1121.86	116.96	End Shut-In(1)
92	107.84	116.41	Open To Flow (2)
136	188.82	120.33	Shut-In(2)
228	1088.49	118.91	End Shut-In(2)
230	1923.22	117.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 90%w 10%m	3.48
114.00	w cm 10%w 90%m	1.60
20.00	go 5%g 95%o	0.28
0.00	112 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37862

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2010.05.20 @ 13:31:22

Tool Information

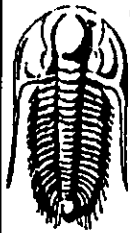
Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4064.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4042.00	
Shut In Tool	5.00			4047.00	
Hydraulic tool	5.00			4052.00	
Safety Joint	3.00			4055.00	
Packer	5.00			4060.00	23.00 Bottom Of Top Packer
Packer	4.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	8373	Inside	4065.00	
Recorder	0.00	8289	Inside	4065.00	
Perforations	30.00			4095.00	
Bullnose	5.00			4100.00	36.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37862

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2010.05.20 @ 13:31:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.52 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mcw 90%w 10%m	3.479
114.00	wcm 10%w 90%m	1.599
20.00	go 5%g 95%o	0.281
0.00	112 GIP	0.000

Total Length: 382.00 ft

Total Volume: 5.359 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

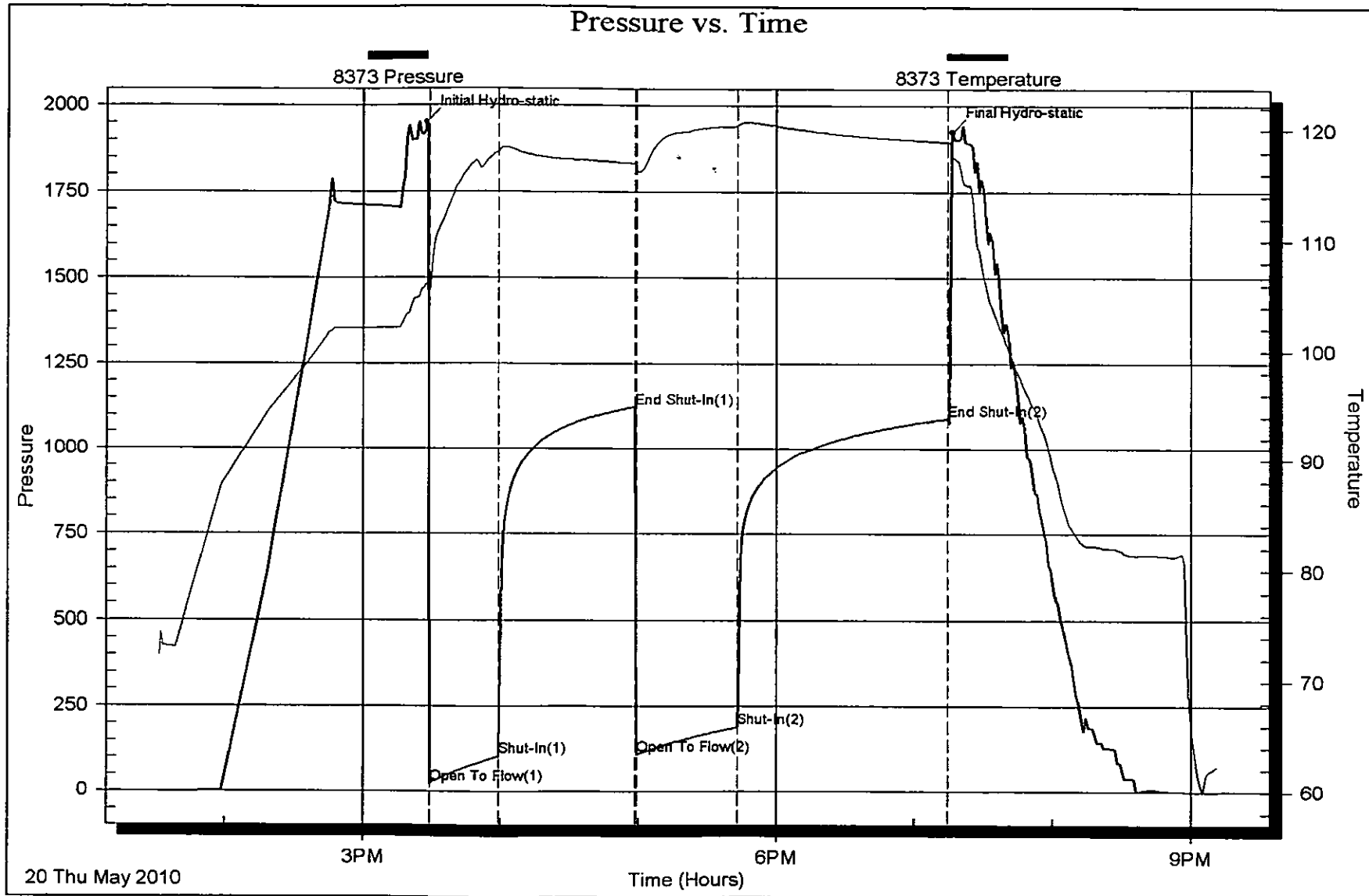
Serial #:

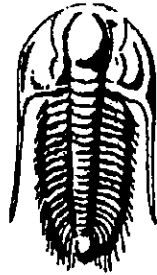
Laboratory Name:

Laboratory Location:

Recovery Comments: 38@60=38

.22@71=34000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.21 @ 05:07:02

End Date: 2010.05.21 @ 12:30:41

Job Ticket #: 37863 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37863

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2010.05.21 @ 05:07:02

GENERAL INFORMATION:

Formation: 160

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:56:27

Time Test Ended: 12:30:41

Test Type: Conventional Bottom Hole

Tester: Brandon Turkey

Unit No: 35

Interval: 4097.00 ft (KB) To 4129.00 ft (KB) (TVD)

Total Depth: 4129.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2880.00 ft (KB)

2875.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8373

Inside

Press@RunDepth: 120.90 psig @ 4098.00 ft (KB)

Start Date: 2010.05.21

End Date:

2010.05.21

Capacity: 8000.00 psig

Last Callb.: 2010.05.21

Start Time: 05:07:02

End Time:

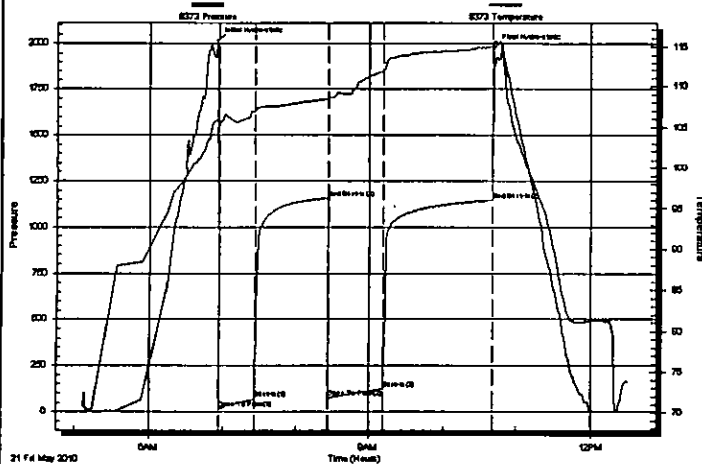
12:30:41

Time On Btm: 2010.05.21 @ 06:55:12

Time Off Btm: 2010.05.21 @ 10:41:56

TEST COMMENT: IF: 1/4 blow BOB in 19 min.
IS: No return.
FF: 1/4 blow BOB in 37 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

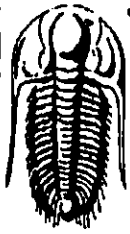
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.33	105.86	Initial Hydro-static
2	14.73	104.68	Open To Flow (1)
32	68.07	106.95	Shut-In(1)
91	1158.00	108.48	End Shut-In(1)
92	72.40	108.01	Open To Flow (2)
137	120.90	112.05	Shut-In(2)
226	1146.04	114.97	End Shut-In(2)
227	1977.25	115.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	1.74
94.00	mcw trace of oil 70%w 30%m	1.32
10.00	go 10%g 90%o	0.14
0.00	82 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37863

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2010.05.21 @ 05:07:02

Tool Information

Drill Pipe:	Length: 4094.00 ft	Diameter: 3.80 inches	Volume: 57.43 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4097.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4075.00	
Shut In Tool	5.00			4080.00	
Hydraulic tool	5.00			4085.00	
Safety Joint	3.00			4088.00	
Packer	5.00			4093.00	23.00 Bottom Of Top Packer
Packer	4.00			4097.00	
Stubb	1.00			4098.00	
Recorder	0.00	8373	Inside	4098.00	
Recorder	0.00	8289	Inside	4098.00	
Perforations	26.00			4124.00	
Bullnose	5.00			4129.00	32.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37863

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2010.05.21 @ 05:07:02

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.53 in³
Resistivity: 0.00 ohm.m
Salinity: 2200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: 34000 ppm

Recovery Information

Recovery Table

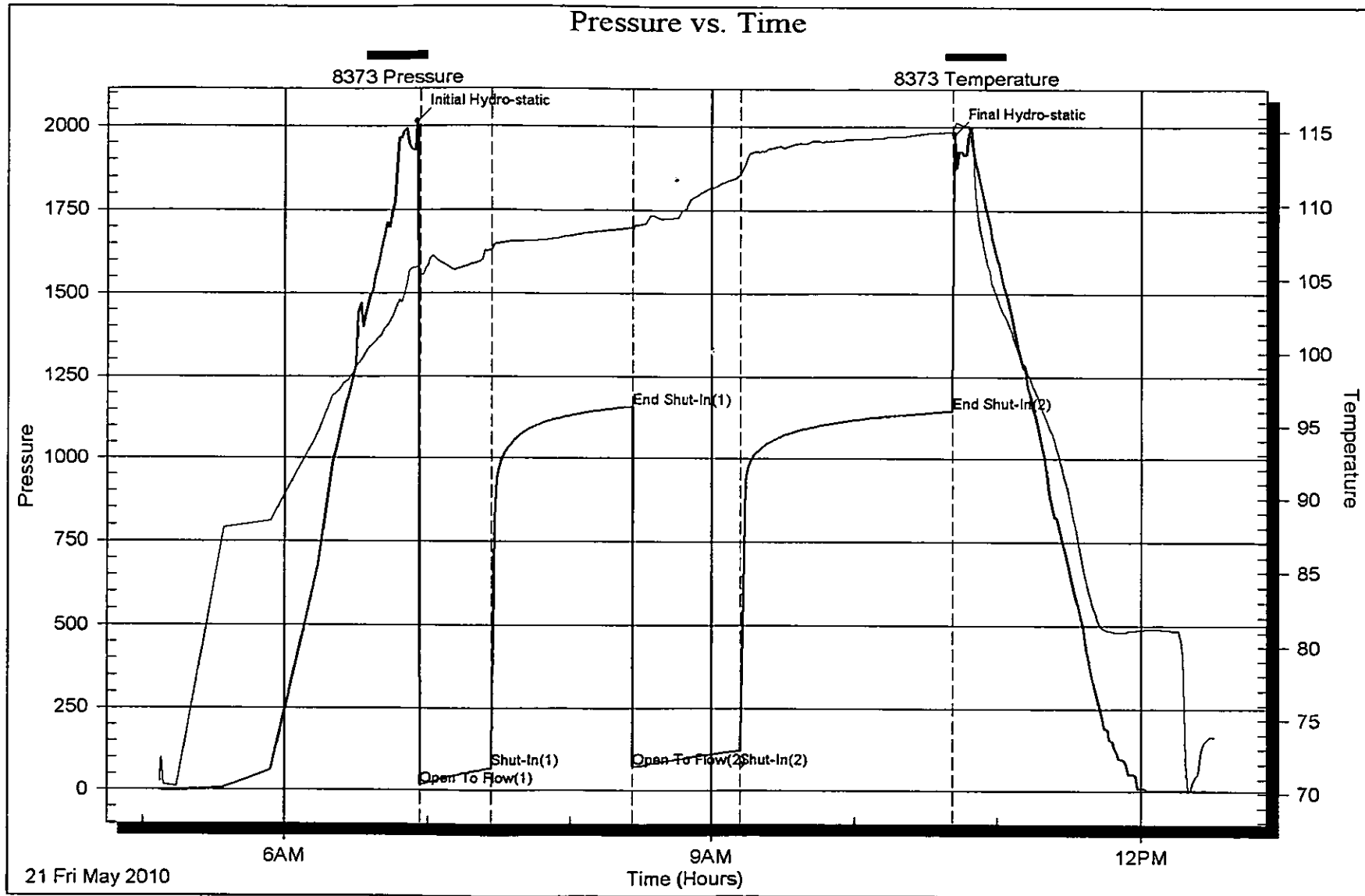
Length ft	Description	Volume bbl
124.00	mcw 90%w 10%m	1.739
94.00	mcw trace of oil 70%w 30%m	1.319
10.00	go 10%g 90%o	0.140
0.00	82 GIP	0.000

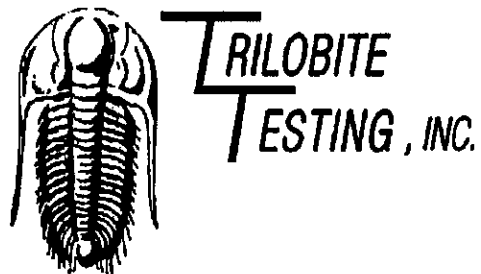
Total Length: 228.00 ft Total Volume: 3.198 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .21@70=34000
39@70=38





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.21 @ 19:12:21

End Date: 2010.05.22 @ 02:26:45

Job Ticket #: 37864 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37864

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2010.05.21 @ 19:12:21

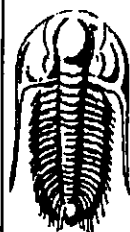
Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4127.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4105.00	
Shut In Tool	5.00			4110.00	
Hydraulic tool	5.00			4115.00	
Safety Joint	3.00			4118.00	
Packer	5.00			4123.00	23.00 Bottom Of Top Packer
Packer	4.00			4127.00	
Stubb	1.00			4128.00	
Recorder	0.00	8373	Inside	4128.00	
Recorder	0.00	8289	Outside	4128.00	
Perforations	17.00			4145.00	
Bullnose	5.00			4150.00	23.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37864

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2010.05.21 @ 19:12:21

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.74 in³
Resistivity: 0.00 ohm.m
Salinity: 3800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 44000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 95%w 5%m	1.739
144.00	wcm 40%w 60%m	2.020

Total Length: 268.00 ft Total Volume: 3.759 bbl

Num Fluid Samples: 0

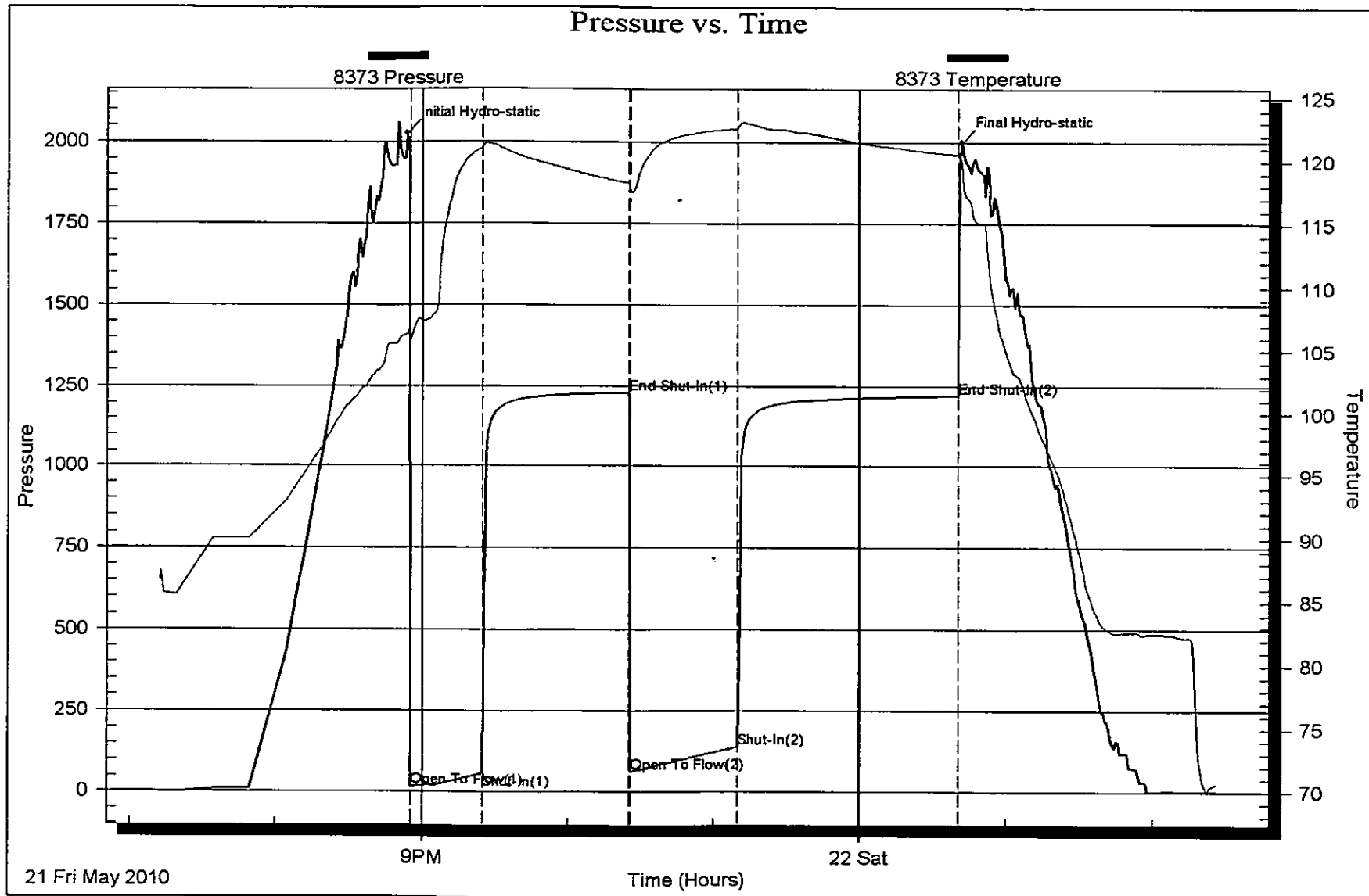
Num Gas Borbs: 0

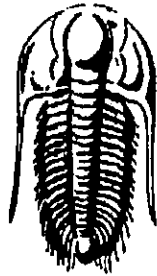
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .16@76=44000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.22 @ 09:32:58

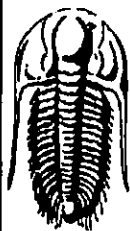
End Date: 2010.05.22 @ 17:29:07

Job Ticket #: 37865 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

Steckel Darney #1

1-14s-32w Logan, Ks

Job Ticket: 37865

DST#: 6

Test Start: 2010.05.22 @ 09:32:58

GENERAL INFORMATION:

Formation: **LKC 200**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 11:20:08

Time Test Ended: 17:29:07

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4148.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Total Depth: **4180.00 ft (KB) (TVD)**

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

Reference Elevations: **2880.00 ft (KB)**

2875.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **447.06 psig @ 4149.00 ft (KB)**

Start Date: **2010.05.22**

End Date:

2010.05.22

Start Time: **09:32:58**

End Time:

17:29:07

Capacity: **8000.00 psig**

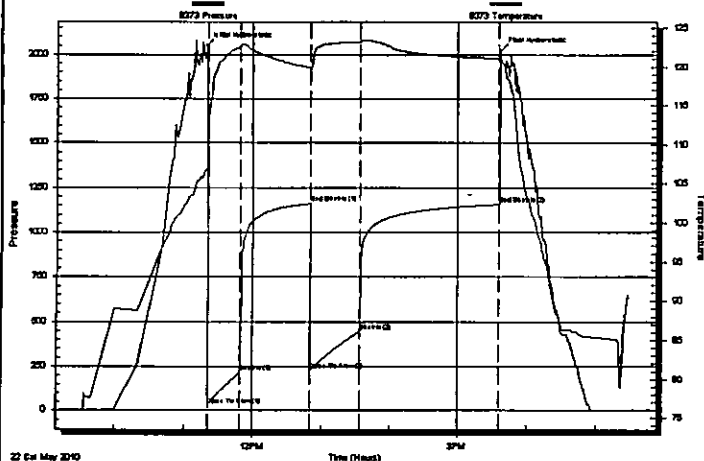
Last Calib.: **2010.05.22**

Time On Btm: **2010.05.22 @ 11:18:53**

Time Off Btm: **2010.05.22 @ 15:37:07**

TEST COMMENT: IF: 1/4 blow BOB in 5 min.
IS: No return.
FF: 1/4 blow BOB in 7 min.
FS: No return.

Pressure vs. Time



22 of May 2010

PRESSURE SUMMARY

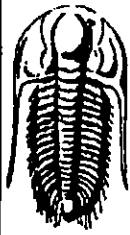
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.61	106.86	Initial Hydro-static
2	30.44	106.28	Open To Flow (1)
31	217.07	122.54	Shut-In(1)
92	1160.96	119.90	End Shut-In(1)
92	227.60	119.42	Open To Flow (2)
136	447.06	123.19	Shut-In(2)
257	1155.94	121.01	End Shut-In(2)
259	2023.17	120.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	water 100%w	6.96
310.00	mcw 80%w 20%m	4.35
155.00	w cm 40%w 60%m	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37865

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.05.22 @ 09:32:58

Tool Information

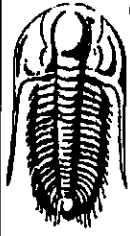
Drill Pipe:	Length: 4157.00 ft	Diameter: 3.80 inches	Volume: 58.31 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4148.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4126.00	
Shut In Tool	5.00			4131.00	
Hydraulic tool	5.00			4136.00	
Safety Joint	3.00			4139.00	
Packer	5.00			4144.00	23.00 Bottom Of Top Packer
Packer	4.00			4148.00	
Stubb	1.00			4149.00	
Recorder	0.00	8373	Inside	4149.00	
Recorder	0.00	8289	Outside	4149.00	
Perforations	26.00			4175.00	
Bullnose	5.00			4180.00	32.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37865 **DST#: 6**
Test Start: 2010.05.22 @ 09:32:58

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 10.34 in³
Resistivity: 0.00 ohm.m
Salinity: 4400.00 ppm
Filter Cake: 1.00 inches

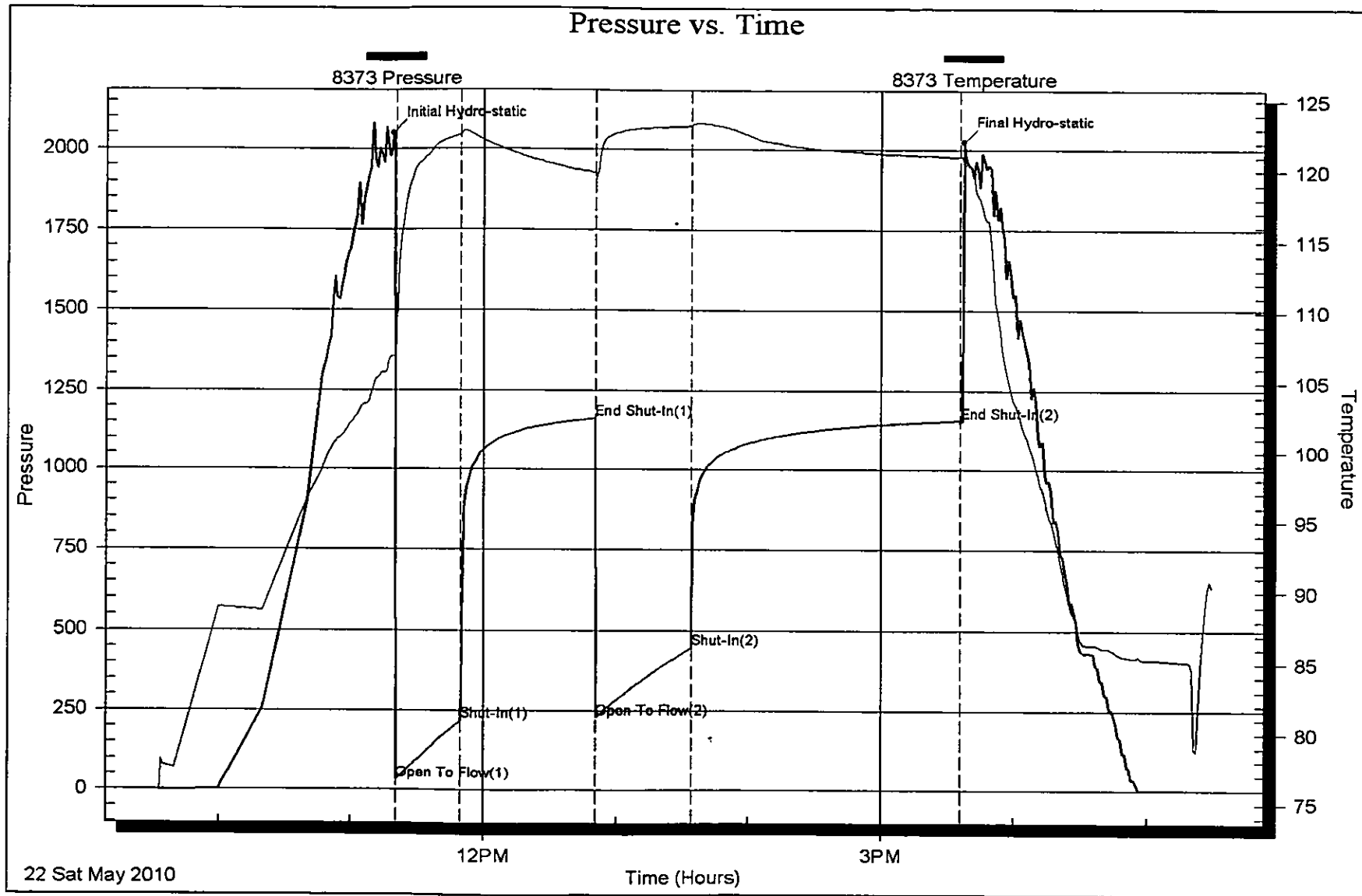
Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: 0 deg API
Water Salinity: 50000 ppm

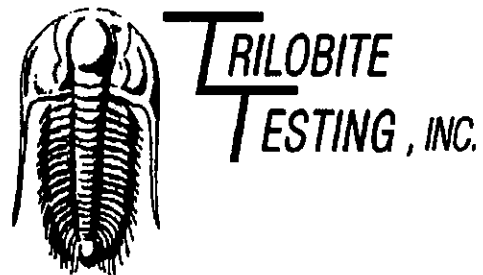
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	water 100%w	6.958
310.00	mcm 80%w 20%cm	4.348
155.00	w cm 40%w 60%cm	2.174

Total Length: 961.00 ft Total Volume: 13.480 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .13@82=50000





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

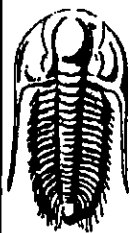
Steckel Darney #1

Start Date: 2010.05.23 @ 01:34:23

End Date: 2010.05.23 @ 08:41:32

Job Ticket #: 37866 DST #: 7

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37866

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.05.23 @ 01:34:23

GENERAL INFORMATION:

Formation: **Lansing 220**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:25:48

Time Test Ended: 08:41:32

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4188.00 ft (KB) To 4214.00 ft (KB) (TVD)**

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4214.00 ft (KB) (TVD)

2875.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8373

Inside

Press@RunDepth: 12.65 psig @ 4189.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.23

End Date: 2010.05.23

Last Calib.: 2010.05.23

Start Time: 01:34:23

End Time: 08:41:32

Time On Btm: 2010.05.23 @ 03:24:33

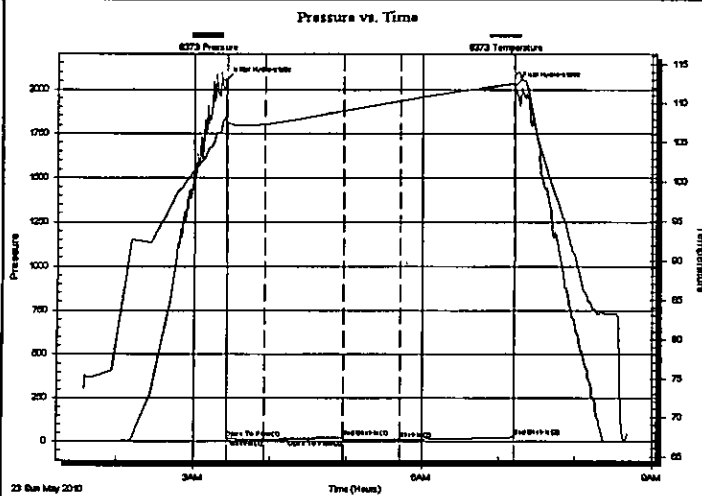
Time Off Btm: 2010.05.23 @ 07:13:02

TEST COMMENT: IF: Surface blow died in 5 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

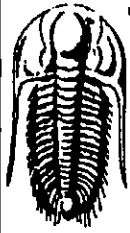
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.30	108.17	Initial Hydro-static
2	15.75	106.91	Open To Flow (1)
31	13.95	107.37	Shut-In(1)
93	25.88	109.05	End Shut-In(1)
94	13.92	109.05	Open To Flow (2)
138	12.65	110.34	Shut-In(2)
228	26.53	112.55	End Shut-In(2)
229	2021.91	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Damey #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37866

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.05.23 @ 01:34:23

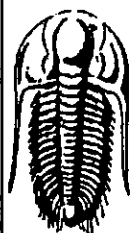
Tool Information

Drill Pipe:	Length: 4189.00 ft	Diameter: 3.80 inches	Volume: 58.76 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4188.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4166.00	
Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00			4176.00	
Safety Joint	3.00			4179.00	
Packer	5.00			4184.00	23.00 Bottom Of Top Packer
Packer	4.00			4188.00	
Stubb	1.00			4189.00	
Recorder	0.00	8373	Inside	4189.00	
Recorder	0.00	8289	Outside	4189.00	
Perforations	20.00			4209.00	
Bullnose	5.00			4214.00	26.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37866

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.05.23 @ 01:34:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% _m	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

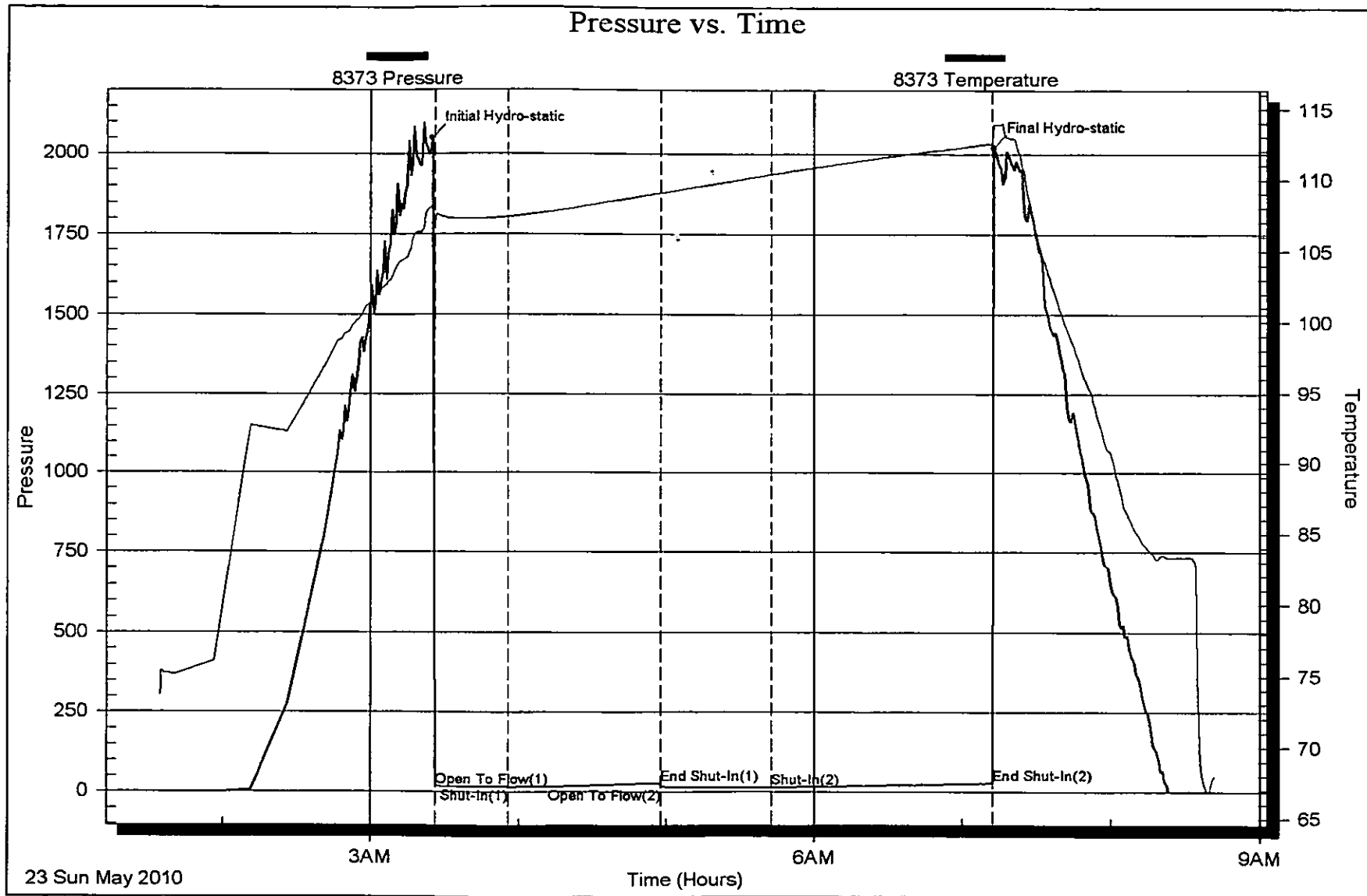
Num Gas Bombs: 0

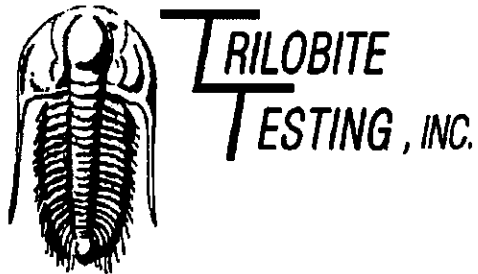
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.24 @ 08:11:23

End Date: 2010.05.24 @ 17:16:48

Job Ticket #: 37867 DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37867

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.05.24 @ 08:11:23

GENERAL INFORMATION:

Formation: **Pawnee- Myrick Stati**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 10:07:18
 Time Test Ended: 17:16:48

Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Turley**
 Unit No: **35**

Interval: **4353.00 ft (KB) To 4414.00 ft (KB) (TVD)**
 Total Depth: **4414.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**
2875.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **223.35 psig @ 4354.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.24**

End Date:

2010.05.24

Last Calib.: **2010.05.24**

Start Time: **08:11:23**

End Time:

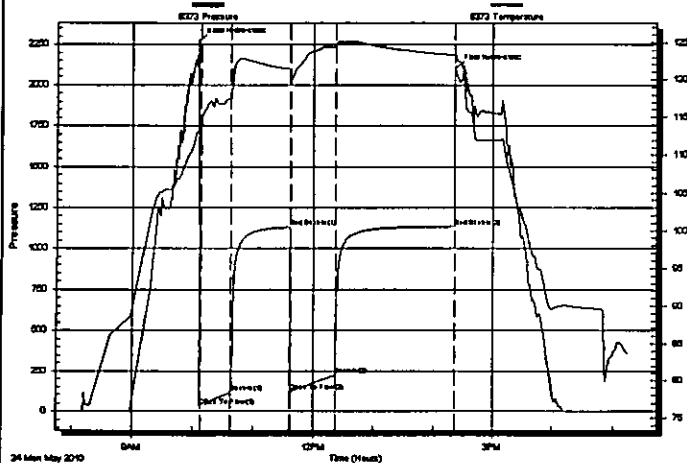
17:16:48

Time On Btm: **2010.05.24 @ 10:06:03**

Time Off Btm: **2010.05.24 @ 14:23:02**

TEST COMMENT: IF: 1/4 blow BOB in 5 min.
 IS: 1/4 blow built to 6 in 60 min.
 FF: 1/4 blow BOB in 7 min.
 FS: 1/4 blow BOB in 17 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.32	113.20	Initial Hydro-static
2	33.02	112.59	Open To Flow (1)
32	111.55	117.58	Shut-In(1)
91	1130.25	121.46	End Shut-In(1)
92	119.91	120.22	Open To Flow (2)
136	223.35	124.46	Shut-In(2)
256	1135.29	123.34	End Shut-In(2)
257	2106.49	123.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	gocm 30%g 20%o 50%rn	3.48
298.00	go 30%g 70%o	4.18
0.00	1686 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37867

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.05.24 @ 08:11:23

Tool Information

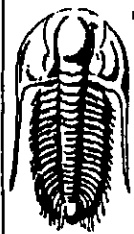
Drill Pipe:	Length: 4349.00 ft	Diameter: 3.80 inches	Volume: 61.01 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4353.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4326.00	
Shut In Tool	5.00			4331.00	
Hydraulic tool	5.00			4336.00	
Jars	5.00			4341.00	
Safety Joint	3.00			4344.00	
Packer	5.00			4349.00	28.00 Bottom Of Top Packer
Packer	4.00			4353.00	
Stubb	1.00			4354.00	
Recorder	0.00	8373	Inside	4354.00	
Recorder	0.00	8289	Outside	4354.00	
Perforations	21.00			4375.00	
Change Over Sub	1.00			4376.00	
Drill Pipe	32.00			4408.00	
Change Over Sub	1.00			4409.00	
Bullnose	5.00			4414.00	61.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37867

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.05.24 @ 08:11:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.18 in³
Resistivity: 0.00 ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	gocm 30%g 20%o 50%m	3.479
298.00	go 30%g 70%o	4.180
0.00	1686 GIP	0.000

Total Length: 546.00 ft Total Volume: 7.659 bbl

Num Fluid Samples: 0

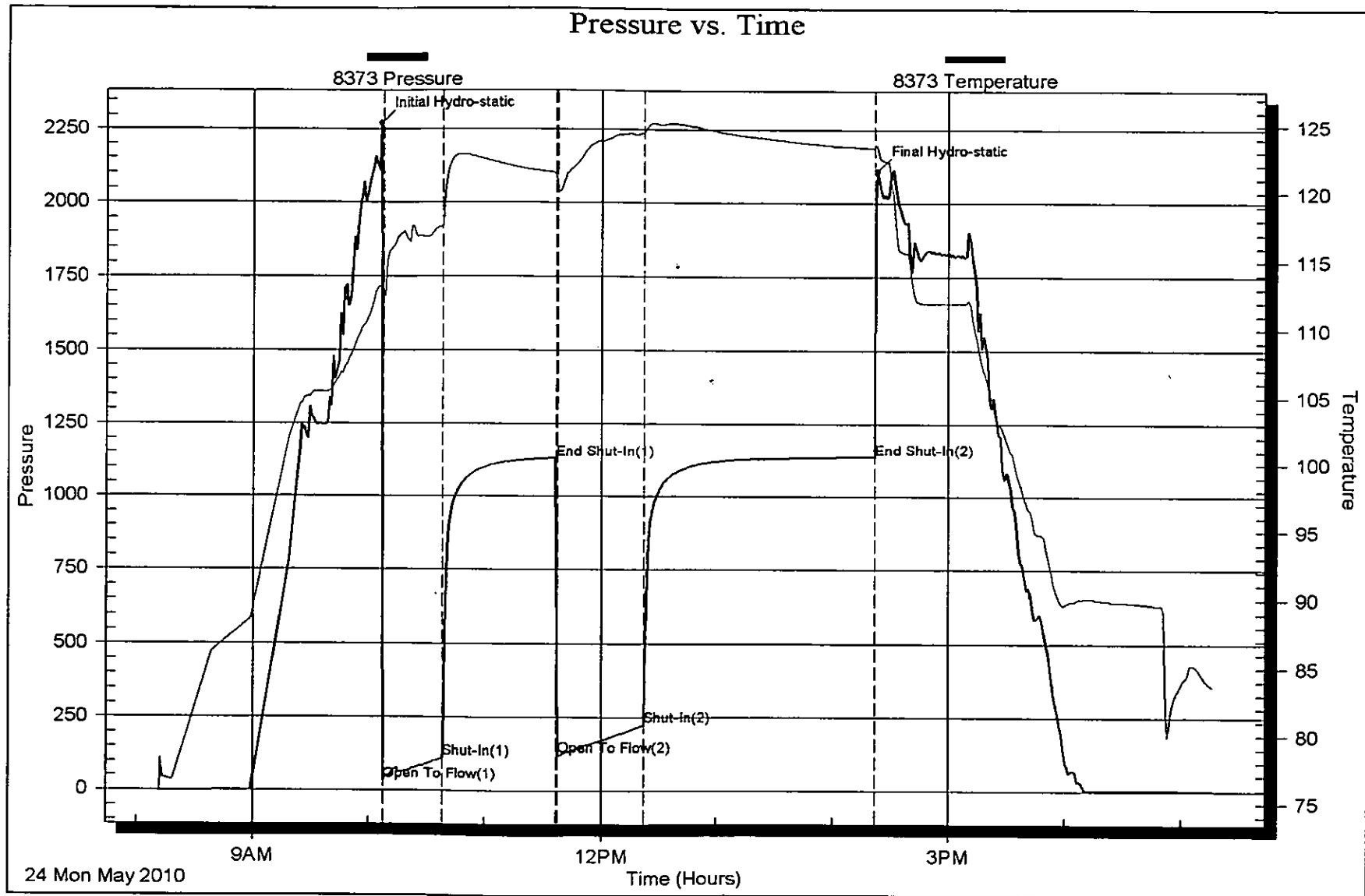
Num Gas Borbs: 0

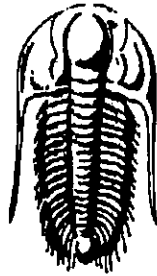
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@90=31





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.25 @ 05:22:19

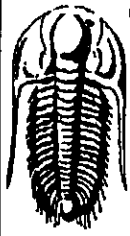
End Date: 2010.05.25 @ 12:50:43

Job Ticket #: 37868 DST #: 9

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

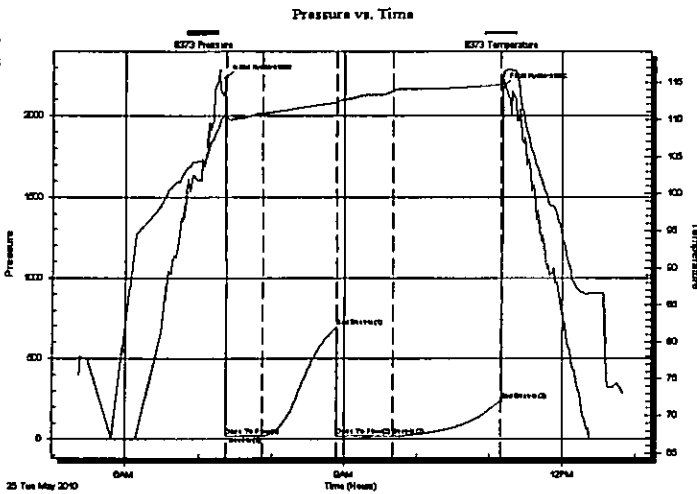
Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37868 DST#: 9
Test Start: 2010.05.25 @ 05:22:19

GENERAL INFORMATION:

Formation: **R. Scott- Cherokee**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 07:22:44
 Time Test Ended: 12:50:43
 Interval: **4410.00 ft (KB) To 4468.00 ft (KB) (TVD)**
 Total Depth: **4468.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Turley**
 Unit No: **35**
 Reference Elevations: **2880.00 ft (KB)**
2875.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8373 **Inside**
 Press@RunDepth: **21.66 psig @ 4411.00 ft (KB)**
 Start Date: **2010.05.25** End Date: **2010.05.25**
 Start Time: **05:22:19** End Time: **12:50:43**
 Capacity: **8000.00 psig**
 Last Calib.: **2010.05.25**
 Time On Btm: **2010.05.25 @ 07:21:29**
 Time Off Btm: **2010.05.25 @ 11:10:43**

TEST COMMENT: IF: 1/2 blow died in 16 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

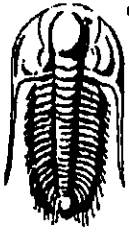
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.23	110.76	Initial Hydro-static
2	21.20	110.18	Open To Flow (1)
32	17.84	110.80	Shut-In(1)
92	694.81	112.21	End Shut-In(1)
93	19.57	112.23	Open To Flow (2)
139	21.66	113.82	Shut-In(2)
228	238.99	114.73	End Shut-In(2)
230	2177.35	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 10%o 90% m	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37868

DST#: 9

ATTN: Kim Shoemaker

Test Start: 2010.05.25 @ 05:22:19

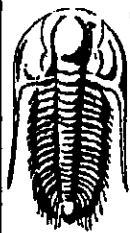
Tool Information

Drill Pipe:	Length: 4411.00 ft	Diameter: 3.80 inches	Volume: 61.87 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4410.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	3.00			4401.00	
Packer	5.00			4406.00	28.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	8373	Inside	4411.00	
Recorder	0.00	8289	Outside	4411.00	
Perforations	18.00			4429.00	
Change Over Sub	1.00			4430.00	
Drill Pipe	32.00			4462.00	
Change Over Sub	1.00			4463.00	
Bullnose	5.00			4468.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37868

DST#: 9

ATTN: Kim Shoemaker

Test Start: 2010.05.25 @ 05:22:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohmm

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	ocm 10%o 90%m	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

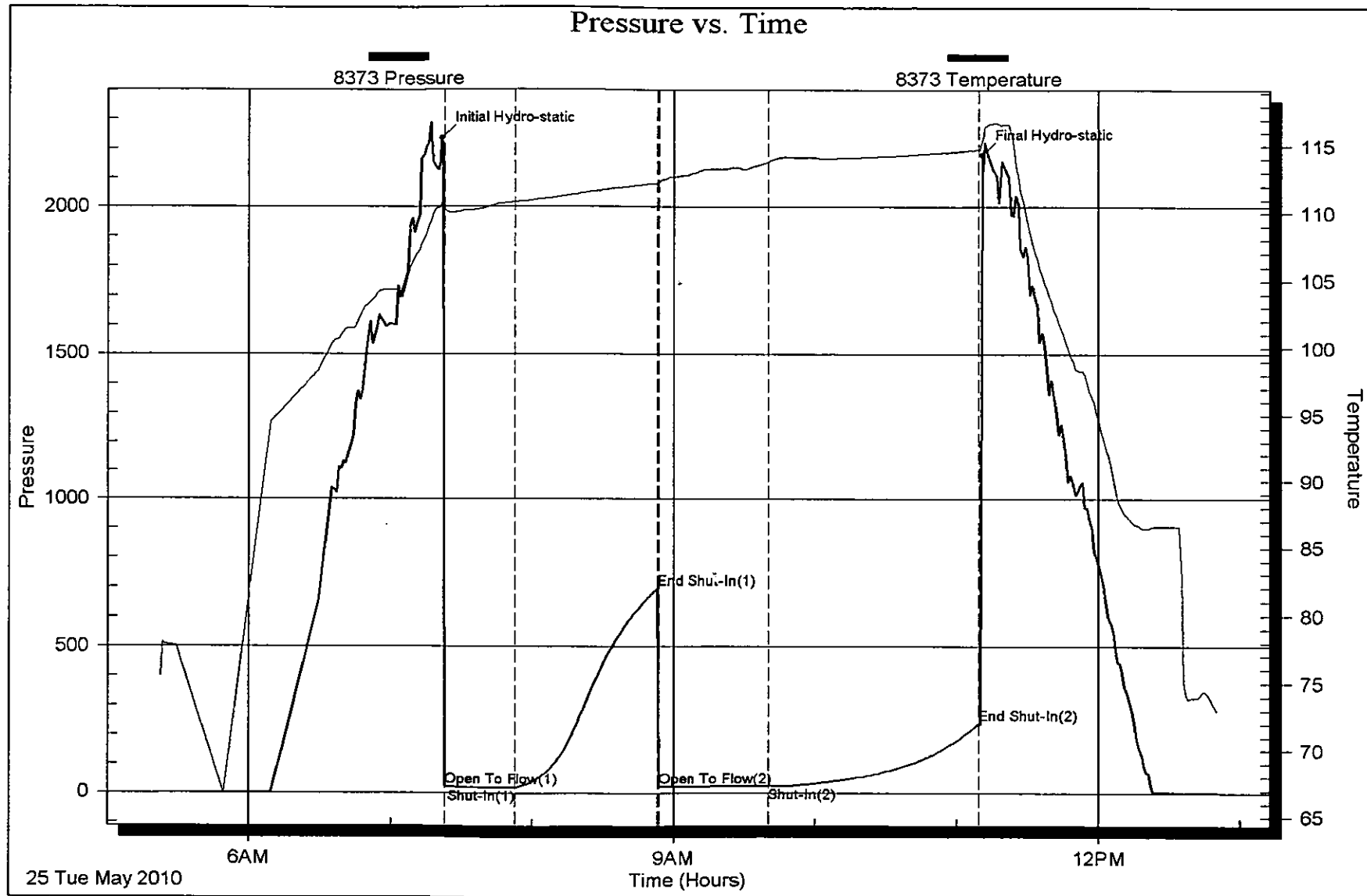
Num Gas Bombs: 0

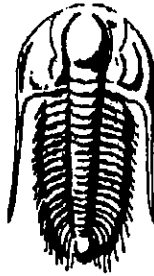
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, Ks 67202

ATTN: Kim Shoemaker

1-14s-32w Logan, Ks

Steckel Darney #1

Start Date: 2010.05.26 @ 14:21:00

End Date: 2010.05.26 @ 22:15:09

Job Ticket #: 37869 DST #: 10

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

Steckel Darney #1

1-14s-32w Logan, Ks

DST # 10

Johnson

2010.05.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Steckel Darney #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37869

DST#: 10

ATTN: Kim Shoemaker

Test Start: 2010.05.26 @ 14:21:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 16:28:40
Time Test Ended: 22:15:09

Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**

Interval: **4463.00 ft (KB) To 4513.00 ft (KB) (TVD)**
Total Depth: **4513.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2880.00 ft (KB)**
2875.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8373

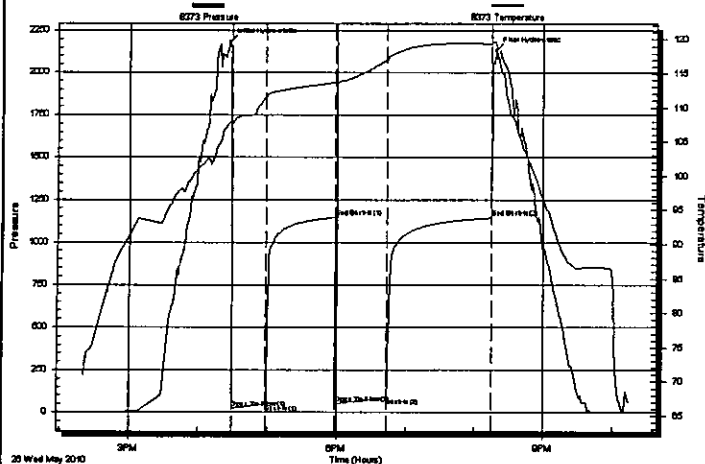
Inside

Press@RunDepth: **86.58 psig @ 4464.00 ft (KB)**
Start Date: **2010.05.26** End Date: **2010.05.26**
Start Time: **14:21:00** End Time: **22:15:09**

Capacity: **8000.00 psig**
Last Calib.: **2010.05.26**
Time On Btm: **2010.05.26 @ 16:26:40**
Time Off Btm: **2010.05.26 @ 20:18:24**

TEST COMMENT: IF: Surface blow built to 5 in 30 min.
IS: No return.
FF: 1/4 blow built to 7 in 45 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

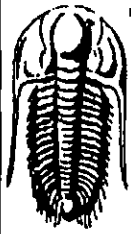
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.36	107.87	Initial Hydro-static
2	23.92	107.73	Open To Flow (1)
32	48.34	111.53	Shut-In(1)
92	1146.38	113.61	End Shut-In(1)
93	51.67	113.33	Open To Flow (2)
137	86.58	117.01	Shut-In(2)
229	1143.17	119.39	End Shut-In(2)
232	2130.70	119.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	wcm40%w 60%m	0.87
62.00	wcm20%w 80%m	0.87
31.00	mud 100%m	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Steckel Damey #1

P.O. Box 48788
Wichita, Ks 67202

1-14s-32w Logan, Ks

Job Ticket: 37869

DST#: 10

ATTN: Kim Shoemaker

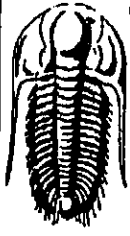
Test Start: 2010.05.26 @ 14:21:00

Tool Information

Drill Pipe:	Length: 4449.00 ft	Diameter: 3.80 inches	Volume: 62.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 62.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4463.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4436.00	
Shut In Tool	5.00			4441.00	
Hydraulic tool	5.00			4446.00	
Jars	5.00			4451.00	
Safety Joint	3.00			4454.00	
Packer	5.00			4459.00	28.00 Bottom Of Top Packer
Packer	4.00			4463.00	
Stubb	1.00			4464.00	
Recorder	0.00	8373	Inside	4464.00	
Recorder	0.00	8289	Outside	4464.00	
Perforations	10.00			4474.00	
Change Over Sub	1.00			4475.00	
Drill Pipe	32.00			4507.00	
Change Over Sub	1.00			4508.00	
Bullnose	5.00			4513.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company
P.O. Box 48788
Wichita, Ks 67202
ATTN: Kim Shoemaker

Steckel Darney #1
1-14s-32w Logan, Ks
Job Ticket: 37869 DST#: 10
Test Start: 2010.05.26 @ 14:21:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.19 in³
Resistivity: 0.00 ohm.m
Salinity: 2000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 37000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	w cm 40%w 60% _m	0.870
62.00	w cm 20%w 80% _m	0.870
31.00	mud 100% _m	0.435

Total Length: 155.00 ft Total Volume: 2.175 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .2@69=37000

