

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

**ORIGINAL**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

3/9/13

OPERATOR: License # 5046  
Name: RAYMOND OIL COMPANY INC.  
Address 1: P.O. BOX 48788  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67201 + \_\_\_\_\_  
Contact Person: TED MCHENRY **KCC**  
Phone: ( 316 ) 267-4214 **MAR 09 2011**  
CONTRACTOR: License # 6039  
Name: L.D. DRILLING INC. **CONFIDENTIAL**  
Wellsite Geologist: MAX LOVELY  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

12/07/2010	12/20/2010	12/21/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 203-20159-0000  
Spot Description: \_\_\_\_\_  
N2 S2 NW NW Sec. 21 Twp. 20 S. R. 35  East  West  
750 Feet from  North /  South Line of Section  
602 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: WICHITA  
Lease Name: BRACK Well #: 2  
Field Name: CARLOTTA  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 3153 Kelly Bushing: 3158  
Total Depth: 5040 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 248 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 19,000 ppm Fluid volume: 1200 bbls  
Dewatering method used: EVAPORATION  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

**AFFIDAVIT**  
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.  
Signature: Ted Mchenry  
Title: GEOLOGIST Date: 03/07/2011

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: 3/9/11 - 3/9/13 **RECEIVED**  
 Confidential Release Date: MAR 10 2011  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 3/9/11  
**KCC WICHITA**

Operator Name: RAYMOND OIL COMPANY INC. Lease Name: BRACK Well #: 2  
 Sec: 21 Twp: 20 S. R. 35  East  West County: WICHITA

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No  <i>(If no, Submit Copy)</i></p> <p>List All E. Logs Run:  <b>GAMMA-RAY/NEUTRON, GEOLOGIST REPORT</b></p>	<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>2295</td> <td>864</td> </tr> <tr> <td>HEEBNER</td> <td>3966</td> <td>-807</td> </tr> <tr> <td>STARK</td> <td>4341</td> <td>-1182</td> </tr> <tr> <td>MARMATON</td> <td>4512</td> <td>-1353</td> </tr> <tr> <td>MISSISSIPPIAN</td> <td>4980</td> <td>-1821</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	B/ANH	2295	864	HEEBNER	3966	-807	STARK	4341	-1182	MARMATON	4512	-1353	MISSISSIPPIAN	4980	-1821
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
Name	Top	Datum																				
B/ANH	2295	864																				
HEEBNER	3966	-807																				
STARK	4341	-1182																				
MARMATON	4512	-1353																				
MISSISSIPPIAN	4980	-1821																				

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#	248	CLASS A	170	3%CC, 2%GEL

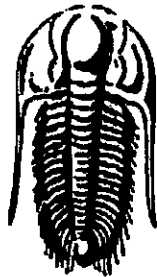
ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

TUBING RECORD: Size: _____ Set At: _____ 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 type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Raymond Oil**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.13 @ 18:49:00

End Date: 2010.12.14 @ 02:46:15

Job Ticket #: 041187      DST #: 1

**KCC  
MAR 09 2011  
CONFIDENTIAL**

**RECEIVED  
MAR 10 2011  
KCC WICHITA**

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

Raymond Oil

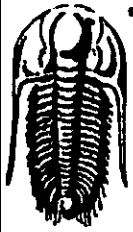
Brack #2

21-20-35 Wichita,KS

DST # 1

Lansing 180

2010.12.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

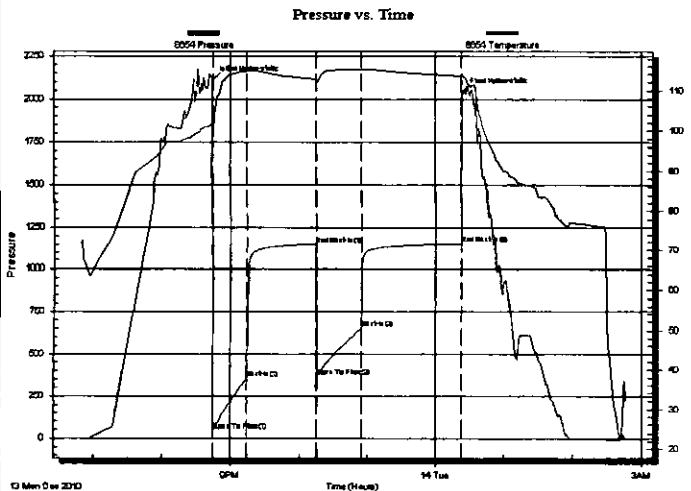
Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041187 DST#: 1  
Test Start: 2010.12.13 @ 18:49:00

## GENERAL INFORMATION:

Formation: **Lansing 180**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 20:44:15  
 Time Test Ended: 02:46:15  
 Interval: **4277.00 ft (KB) To 4310.00 ft (KB) (TVD)**  
 Total Depth: **4310.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Kevin Mack**  
 Unit No: **28**  
 Reference Elevations: **3159.00 ft (KB)**  
**3153.00 ft (CF)**  
 KB to GR/CF: **6.00 ft**

**Serial #: 8654** Inside  
 Press@RunDepth: **653.16 psig @ 4278.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.12.13** End Date: **2010.12.14** Last Calib.: **2010.12.14**  
 Start Time: **18:49:05** End Time: **02:46:14** Time On Btm: **2010.12.13 @ 20:44:00**  
 Time Off Btm: **2010.12.14 @ 00:24:00**

**TEST COMMENT:** IF:BOB in 4 min  
 IS:No Return  
 FF: BOB in 6 min  
 FS: No Return



## PRESSURE SUMMARY

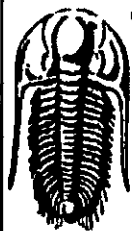
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.32	101.48	Initial Hydro-static
1	45.76	100.63	Open To Flow (1)
31	354.97	114.89	Shut-in(1)
91	1147.45	112.80	End Shut-in(1)
92	367.94	112.44	Open To Flow (2)
131	653.16	115.12	Shut-in(2)
219	1151.95	113.56	End Shut-in(2)
220	2040.93	113.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100M	0.07
625.00	Water 5M 95W	8.77
378.00	MCW 10M 90W	5.30
410.00	MCW 30M 70W	5.75

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

**Brack #2**  
**21-20-35 Wichita,KS**  
Job Ticket: 041187      DST#: 1  
Test Start: 2010.12.13 @ 18:49:00

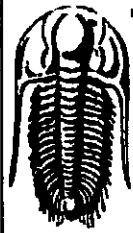
**Tool Information**

Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
		<b>Total Volume:</b>	<b>59.66 bbl</b>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4277.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4250.00	
Shut In Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Jars	5.00			4265.00	
Safety Joint	2.00			4267.00	
Packer	5.00			4272.00	28.00      Bottom Of Top Packer
Packer	5.00			4277.00	
Stubb	1.00			4278.00	
Recorder	0.00	8360	Inside	4278.00	
Recorder	0.00	8654	Inside	4278.00	
Perforations	29.00			4307.00	
Bullnose	3.00			4310.00	33.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041187      DST#: 1  
Test Start: 2010.12.13 @ 18:49:00

## Mud and Cushion Information

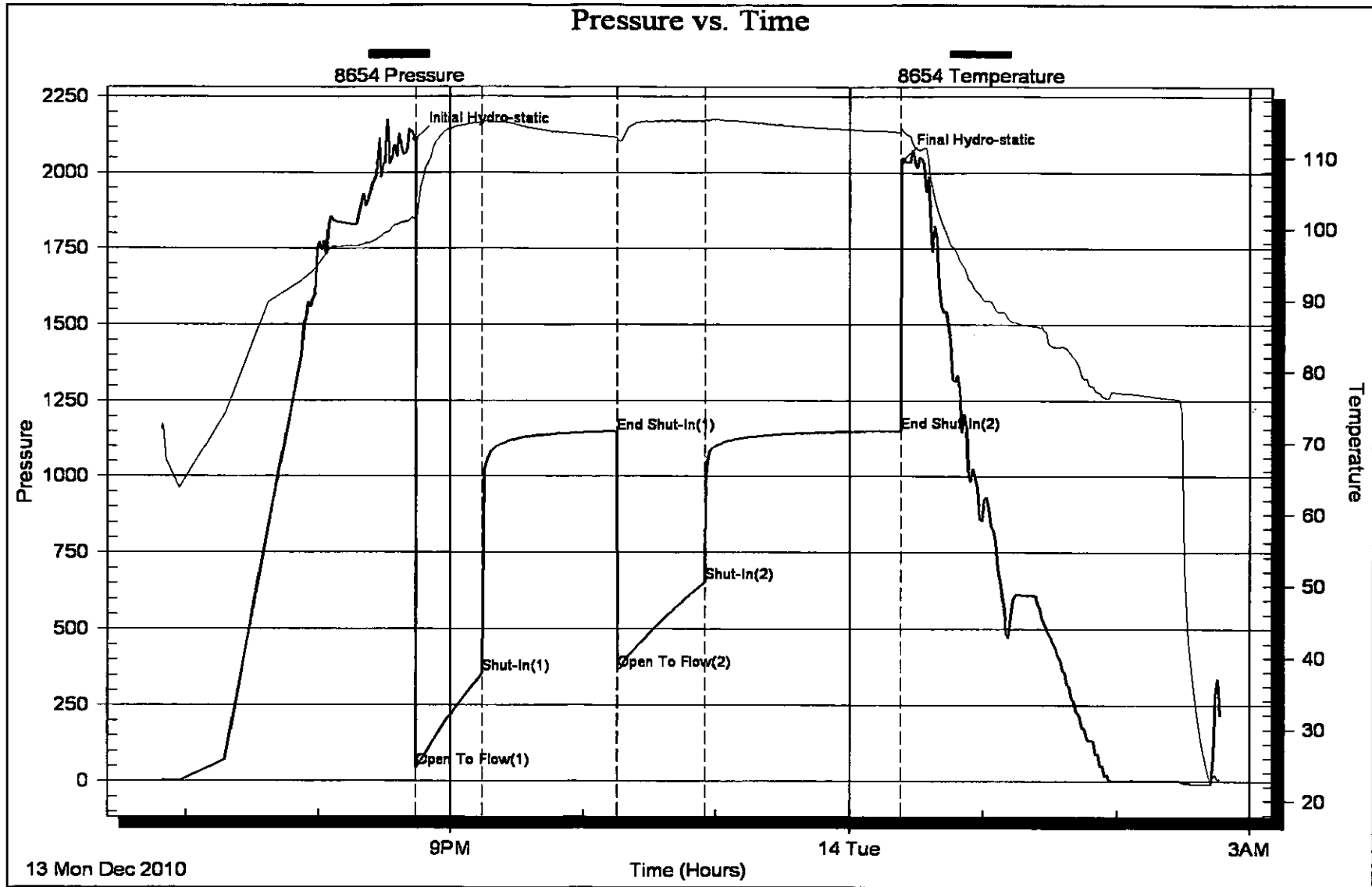
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	55000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.11 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100M	0.070
625.00	Water 5M 95W	8.767
378.00	MCW 10M 90W	5.302
410.00	MCW 30M 70W	5.751

Total Length: 1418.00 ft      Total Volume: 19.890 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**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.14 @ 23:56:00

End Date: 2010.12.15 @ 06:27:45

Job Ticket #: 041188          DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil

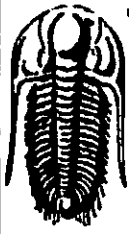
Brack #2

21-20-35 Wichita,KS

DST # 2

Marmaton

2010.12.14



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

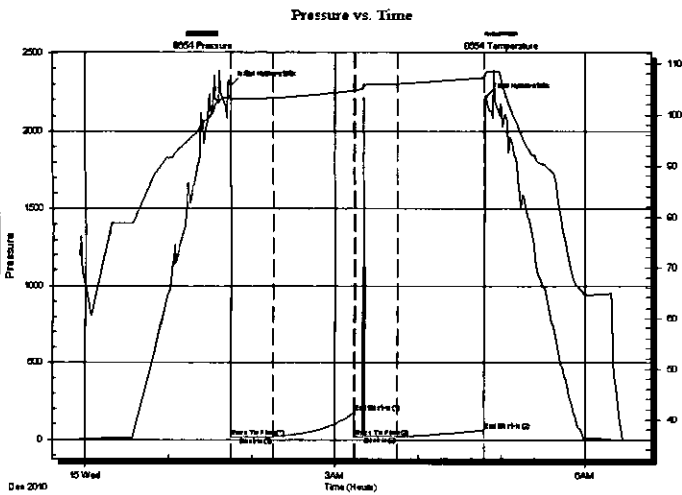
Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041188      DST#: 2  
Test Start: 2010.12.14 @ 23:56:00

### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:44:45  
Time Test Ended: 06:27:45  
Interval: **4513.00 ft (KB) To 4532.00 ft (KB) (TVD)**  
Total Depth: 4532.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Kevin Mack  
Unit No: 28  
Reference Elevations: 3159.00 ft (KB)  
3153.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 8654** Inside  
Press@RunDepth: 19.14 psig @ 4514.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2010.12.14 End Date: 2010.12.15 Last Calib.: 2010.12.15  
Start Time: 23:56:05 End Time: 06:27:44 Time On Btm: 2010.12.15 @ 01:44:30  
Time Off Btm: 2010.12.15 @ 04:48:45

**TEST COMMENT:** IF: Surface blow died @ 25 min.  
IS: No return  
FF: No blow, flushed tool @ 5 min, no blow  
FS: No return



### PRESSURE SUMMARY

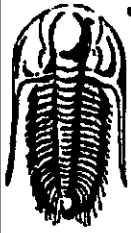
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.62	103.69	Initial Hydro-static
1	18.19	102.51	Open To Flow (1)
31	18.31	103.33	Shut-In(1)
90	178.50	104.72	End Shut-In(1)
90	18.61	104.73	Open To Flow (2)
121	19.14	106.07	Shut-In(2)
183	61.16	107.27	End Shut-In(2)
185	2220.43	108.36	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
4.00	OSM 100M	0.06

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

**Brack #2**  
**21-20-35 Wichita, KS**  
Job Ticket: 041188      **DST#: 2**  
Test Start: 2010.12.14 @ 23:56:00

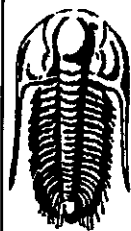
**Tool Information**

Drill Pipe:	Length: 4510.00 ft	Diameter: 3.80 inches	Volume: 63.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
		<b>Total Volume:</b>	<b>63.26 bbl</b>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4513.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4486.00	
Shut In Tool	5.00			4491.00	
Hydraulic tool	5.00			4496.00	
Jars	5.00			4501.00	
Safety Joint	2.00			4503.00	
Packer	5.00			4508.00	28.00      Bottom Of Top Packer
Packer	5.00			4513.00	
Stubb	1.00			4514.00	
Recorder	0.00	8360	Inside	4514.00	
Recorder	0.00	8654	Inside	4514.00	
Perforations	15.00			4529.00	
Bullnose	3.00			4532.00	19.00      Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

**Brack #2**  
**21-20-35 Wichita,KS**  
Job Ticket: 041188      DST#: 2  
Test Start: 2010.12.14 @ 23:56:00

### Mud and Cushion Information

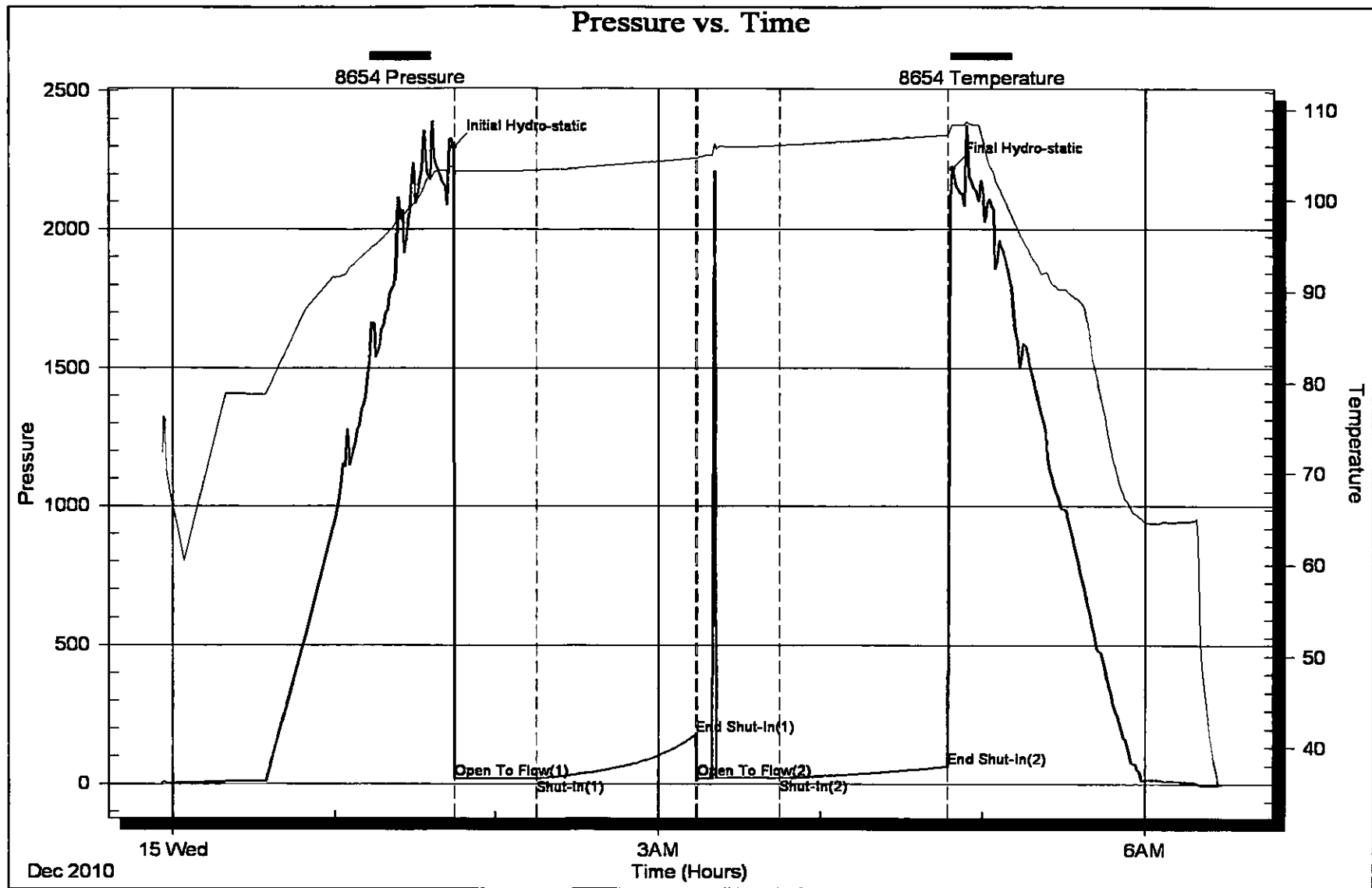
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.12 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

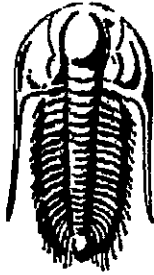
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	OSM 100M	0.056

Total Length: 4.00 ft      Total Volume: 0.056 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**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.15 @ 13:42:00

End Date: 2010.12.15 @ 18:12:15

Job Ticket #: 041189      DST #: 3

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

Raymond Oil

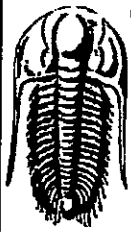
Brack #2

21-20-35 Wichita,KS

DST # 3

Marmaton

2010.12.15



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

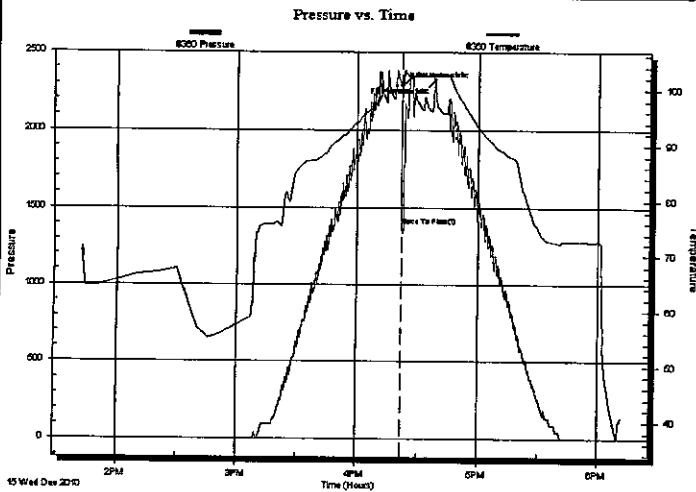
**Brack #2**  
**21-20-35 Wichita, KS**  
Job Ticket: 041189      DST#: 3  
Test Start: 2010.12.15 @ 13:42:00

### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 16:22:00  
Time Test Ended: 18:12:15  
Interval: **4514.00 ft (KB) To 4544.00 ft (KB) (TVD)**  
Total Depth: **4544.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Kevin Mack**  
Unit No: **28**  
Reference Elevations: **3159.00 ft (KB)**  
**3153.00 ft (CF)**  
KB to GR/CF: **6.00 ft**

**Serial #: 8360**      Inside  
Press@RunDepth:      psig @      4515.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2010.12.15      End Date:      2010.12.15      Last Calib.:      2010.12.15  
Start Time:      13:42:05      End Time:      18:12:14      Time On Btm:      2010.12.15 @ 16:21:45  
Time Off Btm:      2010.12.15 @ 16:38:15

**TEST COMMENT:** Packer Failure  
Miss run Could not get a packer seat



### PRESSURE SUMMARY

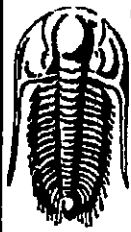
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.25	100.00	Initial Hydro-static
1	1389.27	99.75	Open To Flow (1)
17	2320.05	102.59	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
352.00	Mud 100M	4.94

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041189      DST#: 3  
Test Start: 2010.12.15 @ 13:42:00

### Tool Information

Drill Pipe:	Length: 4510.00 ft	Diameter: 3.80 inches	Volume: 63.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80.00 lb
			<u>Total Volume: 63.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4514.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4487.00	
Shut In Tool	5.00			4492.00	
Hydraulic tool	5.00			4497.00	
Jars	5.00			4502.00	
Safety Joint	2.00			4504.00	
Packer	5.00			4509.00	28.00      Bottom Of Top Packer
Packer	5.00			4514.00	
Stubb	1.00			4515.00	
Recorder	0.00	8360	Inside	4515.00	
Recorder	0.00	8654	Inside	4515.00	
Perforations	26.00			4541.00	
Bullnose	3.00			4544.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 58.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil

**Brack #2**

PO Box 48788  
Wichita, KS 67201

**21-20-35 Wichita, KS**

ATTN: Max Lovely

Job Ticket: 041189

DST#: 3

Test Start: 2010.12.15 @ 13:42:00

**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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.33 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7800.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

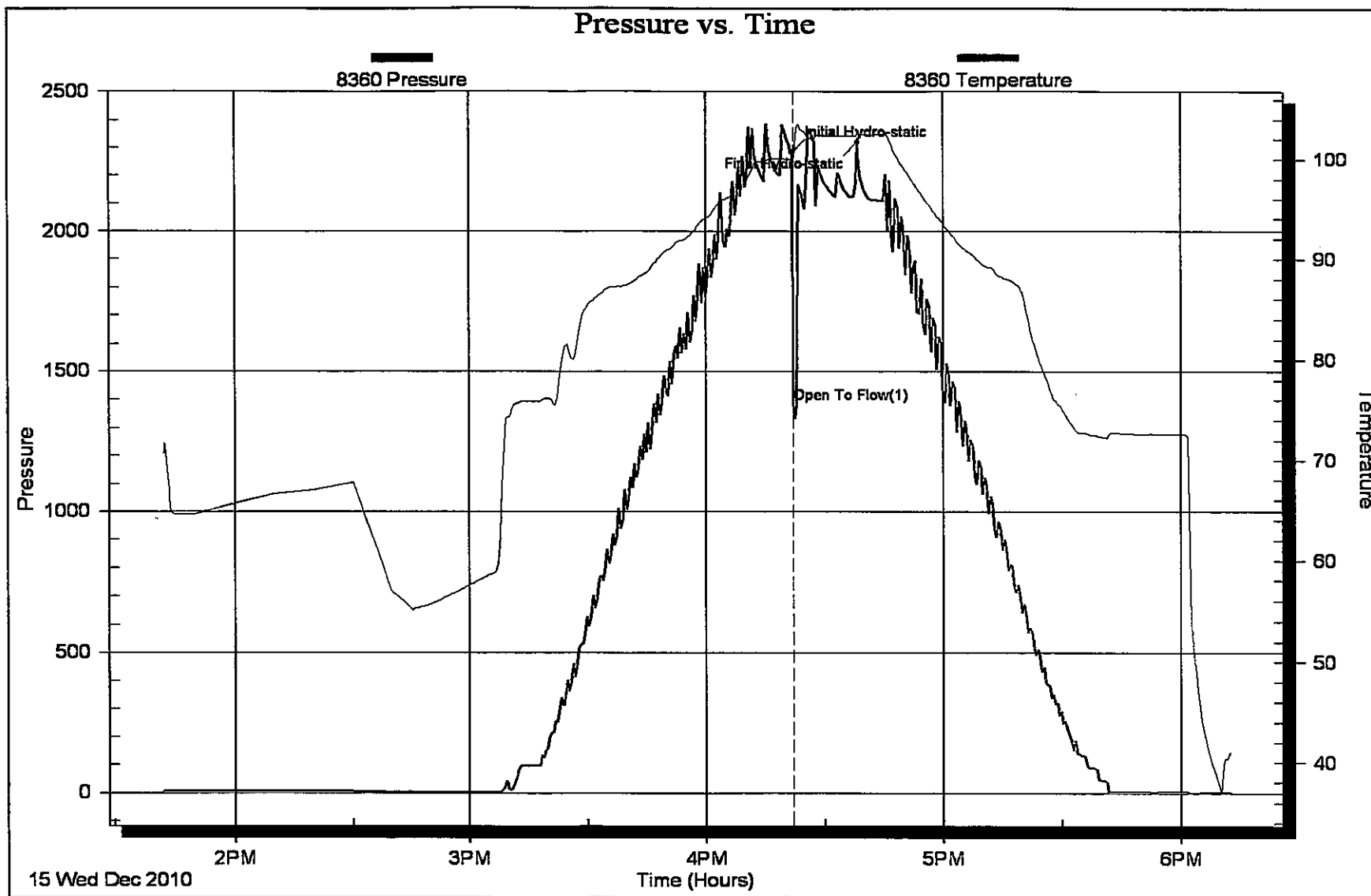
Length ft	Description	Volume bbl
352.00	Mud 100M	4.938

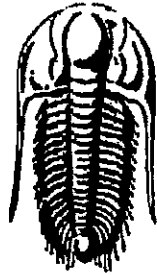
Total Length: 352.00 ft      Total Volume: 4.938 bbl

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**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.16 @ 04:08:26

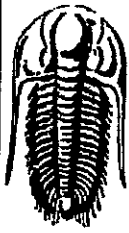
End Date: 2010.12.16 @ 12:09:56

Job Ticket #: 041190      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  
 PO Box 48788  
 Wichita, KS 67201  
 ATTN: Max Lovely

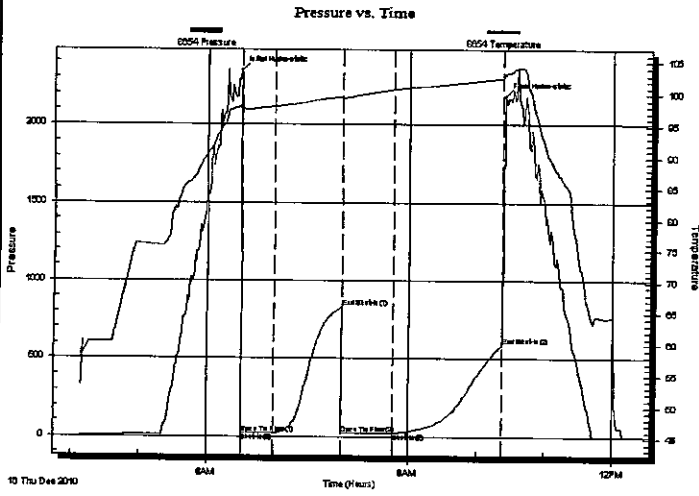
**Brack #2**  
**21-20-35 Wichita, KS**  
 Job Ticket: 041190      DST#: 4  
 Test Start: 2010.12.16 @ 04:08:26

## GENERAL INFORMATION:

Formation: Marmaton  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:30:11  
 Time Test Ended: 12:09:56  
 Interval: 4520.00 ft (KB) To 4544.00 ft (KB) (TVD)  
 Total Depth: 4544.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Kevin Mack / Bradley  
 Unit No: 28  
 Reference Elevations: 3159.00 ft (KB)  
 3153.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8654**      Inside  
 Press@RunDepth: 21.11 psig @ 4521.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.12.16      End Date: 2010.12.16      Last Calib.: 2010.12.16  
 Start Time: 04:08:31      End Time: 12:09:55      Time On Btm: 2010.12.16 @ 06:29:41  
 Time Off Btm: 2010.12.16 @ 10:24:11

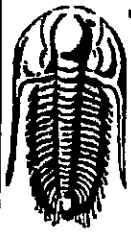
**TEST COMMENT:** IF: Surface blow started at 3 minutes built to 1 inch  
 IS: No return  
 FF: No blow  
 FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2339.99	98.35	Initial Hydro-static
1	20.18	97.02	Open To Flow (1)
30	20.25	98.03	Shut-In(1)
91	834.85	99.65	End Shut-In(1)
91	19.71	99.18	Open To Flow (2)
137	21.11	100.74	Shut-In(2)
233	584.65	102.56	End Shut-In(2)
235	2178.52	103.26	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
8.00	ocm 1%o 99%m	0.11

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
  
ATTN: Max Lovely

Brack #2  
**21-20-35 Wichita,KS**  
Job Ticket: 041190      DST#:4  
Test Start: 2010.12.16 @ 04:08:26

**Tool Information**

Drill Pipe:	Length: 4510.00 ft	Diameter: 3.80 inches	Volume: 63.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 115000.0 lb
			<b>Total Volume: 63.26 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4520.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4493.00	
Shut In Tool	5.00			4498.00	
Hydraulic tool	5.00			4503.00	
Jars	5.00			4508.00	
Safety Joint	2.00			4510.00	
Packer	5.00			4515.00	28.00      Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	8360	Inside	4521.00	
Recorder	0.00	8654	Inside	4521.00	
Perforations	20.00			4541.00	
Bullnose	3.00			4544.00	24.00      Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil

Brack #2

PO Box 48788  
Wichita, KS 67201

21-20-35 Wichita, KS

Job Ticket: 041190

DST#: 4

ATTN: Max Lovely

Test Start: 2010.12.16 @ 04:08:26

**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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
8.00	ocm 1%o 99%m	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl

Num Fluid Samples: 0

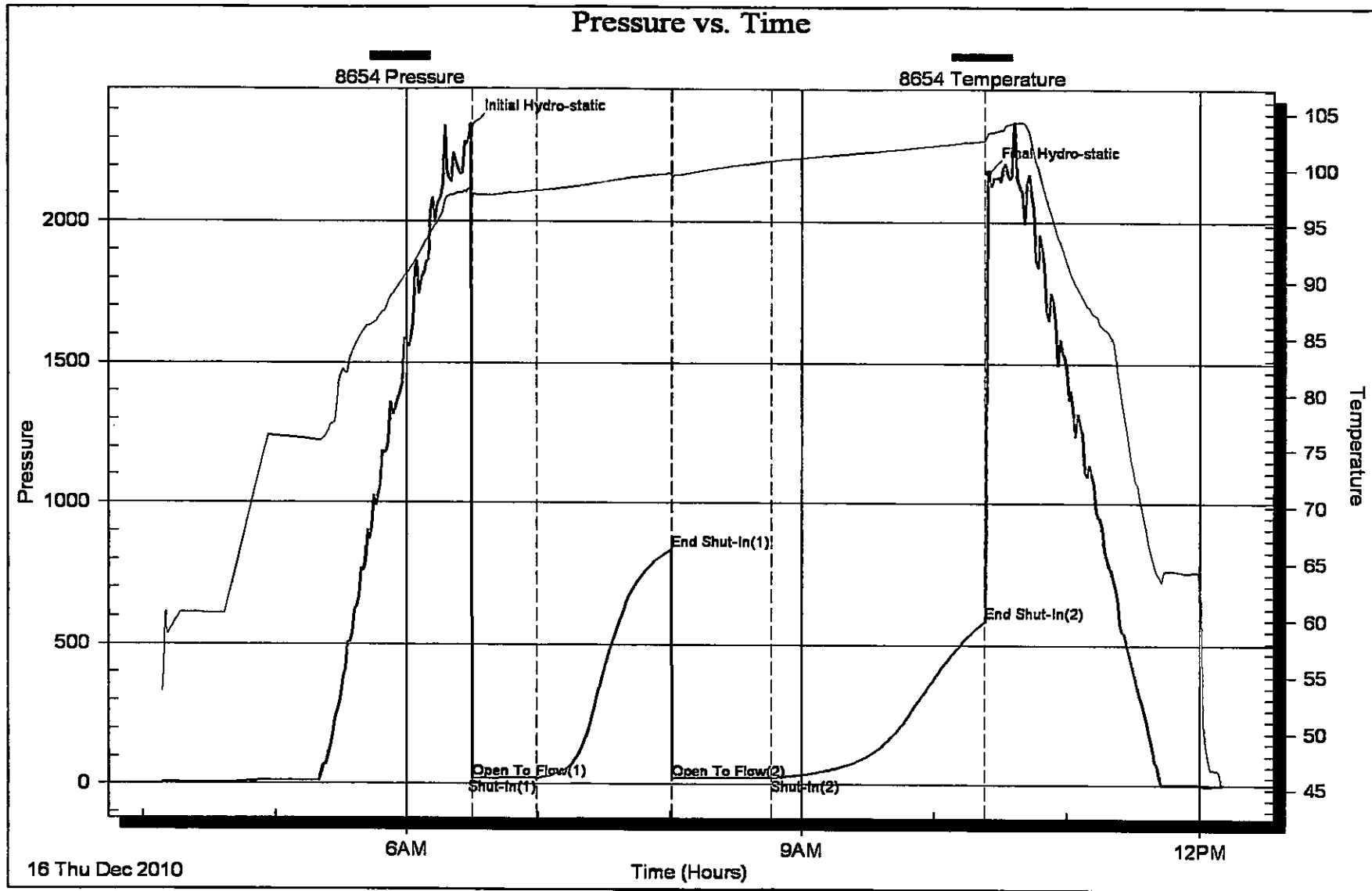
Num Gas Bombs: 0

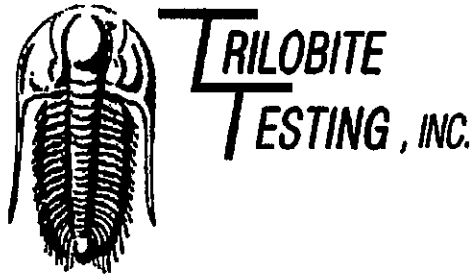
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.17 @ 06:02:38

End Date: 2010.12.17 @ 13:30:38

Job Ticket #: 041191          DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil

Brack #2

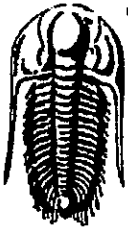
21-20-35 Wichita,KS

DST # 5

Myric Station

2010.12.17





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

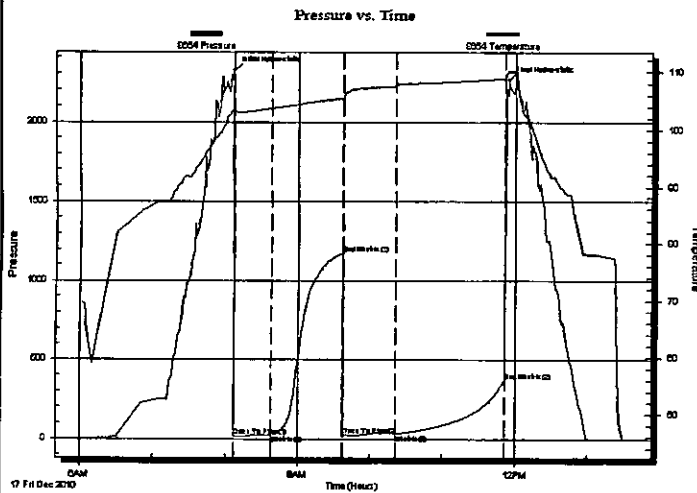
**Brack #2**  
**21-20-35 Wichita, KS**  
Job Ticket: 041191      DST#: 5  
Test Start: 2010.12.17 @ 06:02:38

## GENERAL INFORMATION:

Formation: **Myric Station**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 08:07:38  
Time Test Ended: 13:30:38  
Interval: **4626.00 ft (KB) To 4645.00 ft (KB) (TVD)**  
Total Depth: **4645.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
Test Type: **Conventional Bottom Hole**  
Tester: **Bradley Walter**  
Unit No: **28**  
Reference Elevations: **3159.00 ft (KB)**  
**3153.00 ft (CF)**  
KB to GR/CF: **6.00 ft**

**Serial #: 8654**      Inside '  
Press@RunDepth: **31.10 psig @ 4627.00 ft (KB)**  
Start Date: **2010.12.17**      End Date: **2010.12.17**  
Start Time: **06:02:43**      End Time: **13:30:37**  
Capacity: **8000.00 psig**  
Last Calib.: **2010.12.17**  
Time On Btm: **2010.12.17 @ 08:07:08**  
Time Off Btm: **2010.12.17 @ 11:54:08**

**TEST COMMENT:** IF: Surface blow died @ 5 minutes.  
IS: No return blow.  
FF: No blow.  
FS: No return blow.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.43	103.54	Initial Hydro-static
1	18.89	102.92	Open To Flow (1)
31	20.75	103.67	Shut-In(1)
91	1167.05	105.40	End Shut-In(1)
91	23.21	105.42	Open To Flow (2)
135	31.10	107.72	Shut-In(2)
225	366.29	108.90	End Shut-In(2)
227	2259.36	110.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 2%o 98%m	0.28

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041191      DST#: 5  
Test Start: 2010.12.17 @ 06:02:38

### Tool Information

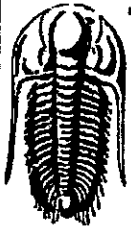
Drill Pipe:	Length: 4602.00 ft	Diameter: 3.80 inches	Volume: 64.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 64.55 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4626.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4599.00	
Shut In Tool	5.00			4604.00	
Hydraulic tool	5.00			4609.00	
Jars	5.00			4614.00	
Safety Joint	2.00			4616.00	
Packer	5.00			4621.00	28.00      Bottom Of Top Packer
Packer	5.00			4626.00	
Stubb	1.00			4627.00	
Recorder	0.00	8360	Inside	4627.00	
Recorder	0.00	8654	Inside	4627.00	
Perforations	15.00			4642.00	
Bullnose	3.00			4645.00	19.00      Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil

**Brack #2**

PO Box 48788  
Wichita, KS 67201

**21-20-35 Wichita, KS**

ATTN: Max Lovely

Job Ticket: 041191

DST#: 5

Test Start: 2010.12.17 @ 06:02:38

**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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 2%o 98%m	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

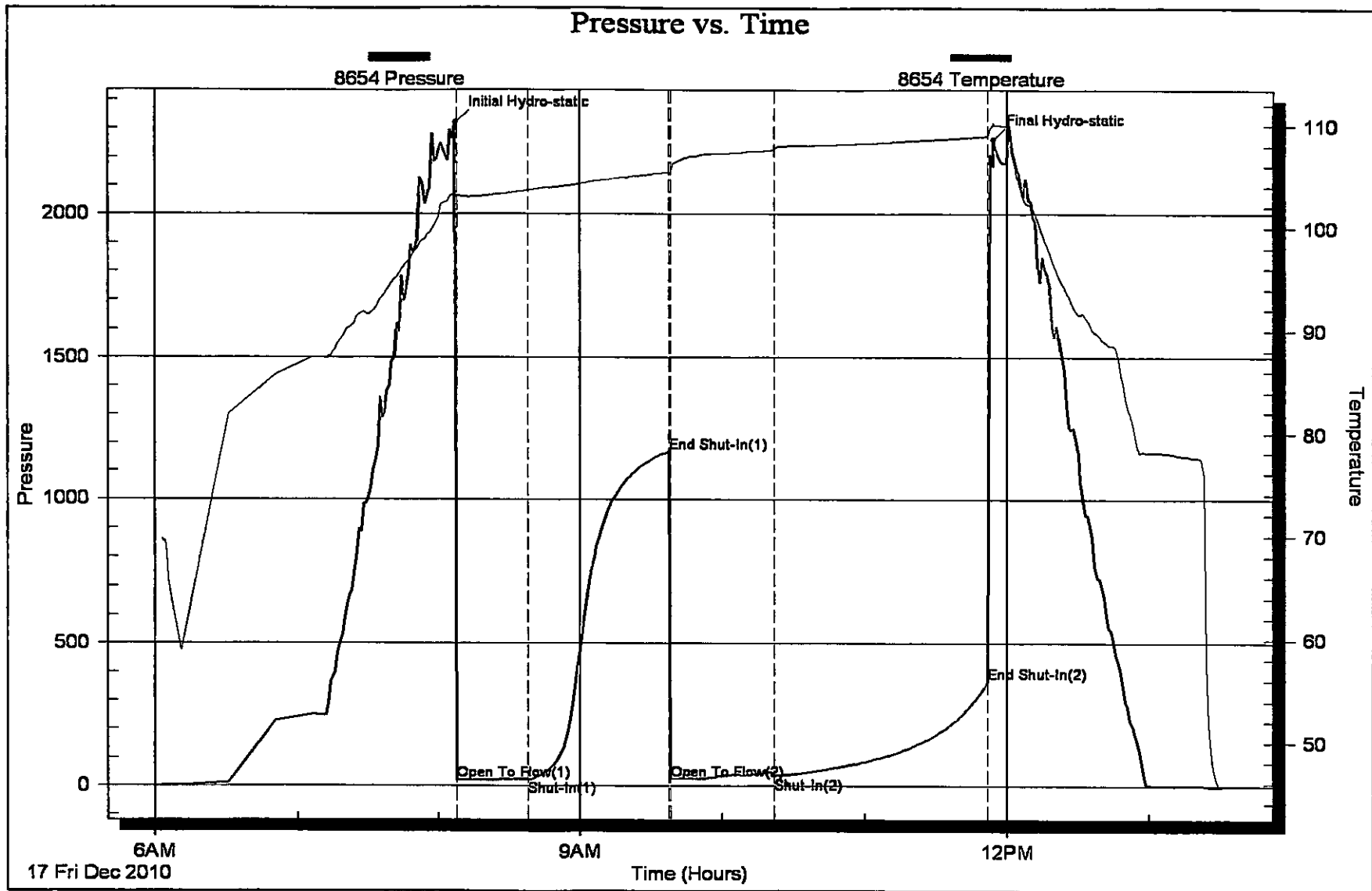
Num Gas Bombs: 0

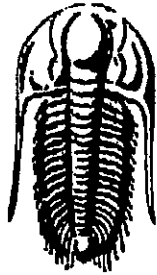
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Raymond Oil**

PO Box 48788  
Wichita, KS 67201

ATTN: Max Lovely

**21-20-35 Wichita,KS**

**Brack #2**

Start Date: 2010.12.18 @ 08:56:00

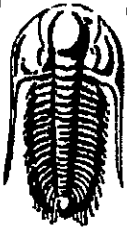
End Date: 2010.12.18 @ 17:04:30

Job Ticket #: 041192      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  
 PO Box 48788  
 Wichita, KS 67201  
 ATTN: Max Lovely

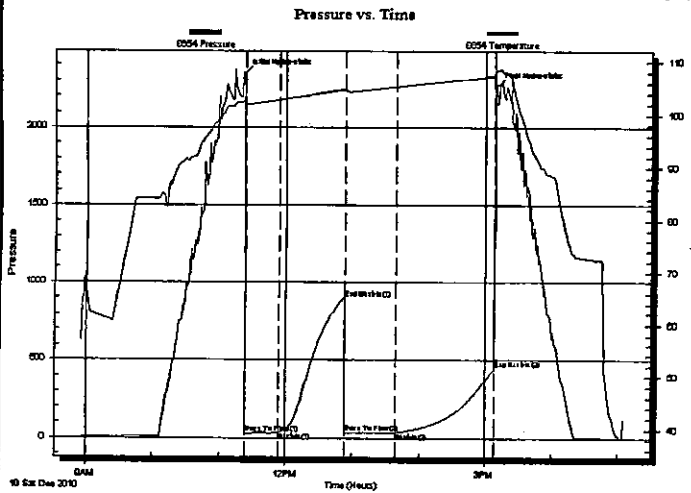
**Brack #2**  
**21-20-35 Wichita, KS**  
 Job Ticket: 041192      DST#: 6  
 Test Start: 2010.12.18 @ 08:56:00

**GENERAL INFORMATION:**

Formation: **Ft Scott/ Johnson**  
 Deviated: **No Whipstock:**      ft (KB)  
 Time Tool Opened: **11:23:00**  
 Time Test Ended: **17:04:30**  
 Interval: **4638.00 ft (KB) To 4764.00 ft (KB) (TVD)**  
 Total Depth: **4764.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Bradley Walter**  
 Unit No: **28**  
 Reference Elevations: **3159.00 ft (KB)**  
**3153.00 ft (CF)**  
 KB to GR/CF: **6.00 ft**

**Serial #: 8654**      Inside  
 Press@RunDepth: **35.16 psig @ 4639.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.12.18**      End Date: **2010.12.18**      Last Calib.: **2010.12.18**  
 Start Time: **08:56:05**      End Time: **17:04:29**      Time On Btm: **2010.12.18 @ 11:22:30**  
 Time Off Btm: **2010.12.18 @ 15:10:15**

**TEST COMMENT:** IF: 2 inch blow.  
 IS: surface blow @ 50 minutes.  
 FF: 1 inch blow.  
 FS: No return blow.



**PRESSURE SUMMARY**

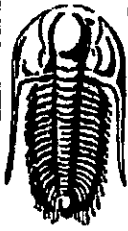
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2340.12	102.56	Initial Hydro-static
1	29.59	101.89	Open To Flow (1)
31	31.36	102.79	Shut-In(1)
91	899.46	104.80	End Shut-In(1)
91	34.28	104.52	Open To Flow (2)
137	35.16	105.32	Shut-In(2)
226	445.56	107.39	End Shut-In(2)
228	2265.37	108.33	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	ocm 1%o 99%m	0.42

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Max Lovely

Brack #2  
21-20-35 Wichita, KS  
Job Ticket: 041192      DST#: 6  
Test Start: 2010.12.18 @ 08:56:00

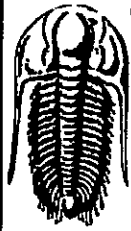
**Tool Information**

Drill Pipe:	Length: 4637.00 ft	Diameter: 3.80 inches	Volume: 65.04 bbl	Tool Weight: 2500.00 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: 110000.0 lb
			<b>Total Volume: 65.04 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4638.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	126.00 ft			
Tool Length:	154.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

**Tool Description      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Change Over Sub	1.00			4611.00	
Shut In Tool	5.00			4616.00	
Hydraulic tool	5.00			4621.00	
Jars	5.00			4626.00	
Safety Joint	2.00			4628.00	
Packer	5.00			4633.00	28.00      Bottom Of Top Packer
Packer	5.00			4638.00	
Stubb	1.00			4639.00	
Recorder	0.00	8360	inside	4639.00	
Recorder	0.00	8654	inside	4639.00	
Perforations	10.00			4649.00	
Change Over Sub	1.00			4650.00	
Drill Pipe	95.00			4745.00	
Change Over Sub	1.00			4746.00	
Perforations	15.00			4761.00	
Bullnose	3.00			4764.00	126.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>154.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil

**Brack #2**

PO Box 48788  
Wichita, KS 67201

**21-20-35 Wichita, KS**

ATTN: Max Lovely

Job Ticket: 041192

DST#: 6

Test Start: 2010.12.18 @ 08:56:00

**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: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
30.00	ocm 1%o 99%m	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 6 inches free oil on top.



