





1153639

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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

<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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	George 1-30
Doc ID	1153639

All Electric Logs Run

Array Compensated True Resistivity Log
Spectral Density Dual Spaced Neutron Log
Annular Hole Volume Plot
Microlog
Borehole Compensated Sonic Array Log
Cement Bond Log

## Summary of Changes

Lease Name and Number: George 1-30

API/Permit #: 15-119-21331-00-00

Doc ID: 1153639

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/10/2013	07/31/2013
Completion Or Recompletion Date	04/10/2013	05/15/2013
Date of First or Resumed Production or SWD or Enhr Disposition Of Gas - Sold	No	5/15/2013 Yes
Liner Run?		No
Method Of Completion - Perf	No	Yes
Perf_Depth_1		5732-5742
Perf_Depth_2		5732-5742
Perf_Material_1		1000 gals 15% HCL
Perf_Material_2		7607 gals 15% FE acid

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Record_1		5732-5742
Perf_Shots_1		3
Producing Method Flowing	No	Yes
Production - Barrels Oil		5
Production - Barrels of Water		3.5
Production - Gas-Oil Ratio		0
Production - MCF Gas		429
Production - Oil Gravity		40
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1131406	../../../../kcc/detail/operatorEditDetail.cfm?docID=1153639
Tubing Record - Set At		5714
Tubing Size		2.375



**CONFIDENTIAL**

**WELL COMPLETION FORM**

**Form Must Be Typed**  
**Form must be Signed**  
**All blanks must be Filled**

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

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	George 1-30
Doc ID	1131406

All Electric Logs Run

Array Compensated True Resistivity Log
Spectral Density Dual Spaced Neutron Log
Annular Hole Volume Plot
Microlog
Borehole Compensated Sonic Array Log
Cement Bond Log









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



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 03, 2013

David E. Rice  
Raydon Exploration, Inc.  
1601 NW EXPRESSWAY, STE 1300  
OKLAHOMA CITY, OK 73118-1462

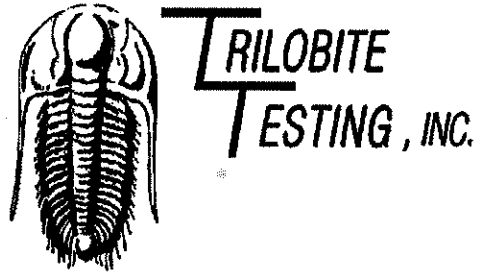
Re: ACO1  
API 15-119-21331-00-00  
George 1-30  
SE/4 Sec.30-33S-30W  
Meade County, Kansas

Dear Production Department:

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

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

Respectfully,  
David E. Rice



## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration**

1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118

ATTN: Ed Grieves

**George #1-30**

**30-33s-30w Meade,KS**

Start Date: 2012.12.17 @ 16:13:15

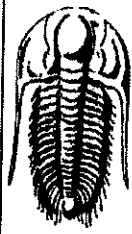
End Date: 2012.12.18 @ 02:42:15

Job Ticket #: 51319                      DST #: 1

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

Printed: 2012.12.26 @ 09:14:48

Raydon Exploration    30-33s-30w Meade,KS    George #1-30    DST # 1    "A"    2012.12.17



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Raydon Exploration  
 1601 NW Expressway  
 STE 1300  
 Oklahoma City OK 73118  
 ATTN: Ed Grieves

**30-33s-30w Meade, KS**

**George #1-30**

Job Ticket: 51319

DST#: 1

Test Start: 2012.12.17 @ 16:13:15

### GENERAL INFORMATION:

Formation: "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:56:45

Time Test Ended: 02:42:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: 4485.00 ft (KB) To 4495.00 ft (KB) (TVD)

Total Depth: 4495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 4495.00 ft (KB)

4485.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8646**

Inside

Press@RunDepth: 395.30 psig @ 4486.00 ft (KB)

Start Date: 2012.12.17

End Date:

2012.12.18

Start Time: 16:13:15

End Time:

02:42:15

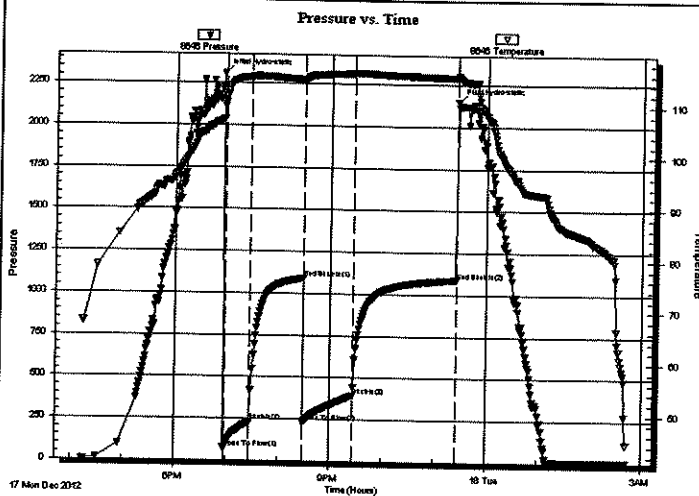
Capacity: 8000.00 psig

Last Calib.: 2012.12.18

Time On Btm: 2012.12.17 @ 18:55:15

Time Off Btm: 2012.12.17 @ 23:26:30

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



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2310.01	107.28	Initial Hydro-static
2	73.42	110.59	Open To Flow (1)
32	231.19	115.36	Shut-In(1)
93	1089.44	115.00	End Shut-In(1)
94	233.56	114.53	Open To Flow (2)
151	395.30	116.20	Shut-In(2)
271	1088.07	115.55	End Shut-In(2)
272	2150.46	115.90	Final Hydro-static

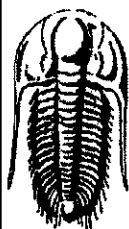
### Recovery

Length (ft)	Description	Volume (bbl)
979.00	sw 100%sw	11.03
124.00	mcw 50%m 50%w	1.74
134.00	w cm 20%w 80%m	1.88
2.00	free oil	0.03

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration  
1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

**30-33s-30w Meade,KS**  
**George #1-30**  
Job Ticket: 51319      DST#: 1  
Test Start: 2012.12.17 @ 16:13:15

## Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 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: 20000.00 lb
Drill Collar:	Length: 297.00 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4485.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

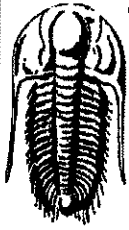
Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4467.00	
Shut In Tool	5.00			4472.00	
Hydraulic tool	5.00			4477.00	
Jars	5.00			4482.00	
Safety Joint	3.00			4485.00	
Packer	0.00			4485.00	19.00      Bottom Of Top Packer
Packer - Shale	0.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	8646	Inside	4486.00	
Recorder	0.00	8365	Outside	4486.00	
Perforations	4.00			4490.00	
Bullnose	5.00			4495.00	10.00      Anchor Tool

**Total Tool Length: 29.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration

30-33s-30w Meade,KS

1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

**George #1-30**  
Job Ticket: 51319      DST#: 1  
Test Start: 2012.12.17 @ 16:13:15

### 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:	68000 ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.34 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
979.00	sw 100%sw	11.027
124.00	mcw 50%m 50%w	1.739
134.00	w cm 20%w 80%m	1.880
2.00	free oil	0.028

Total Length: 1239.00 ft      Total Volume: 14.674 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW= >275 @ 35.7\*=68,000 ppm

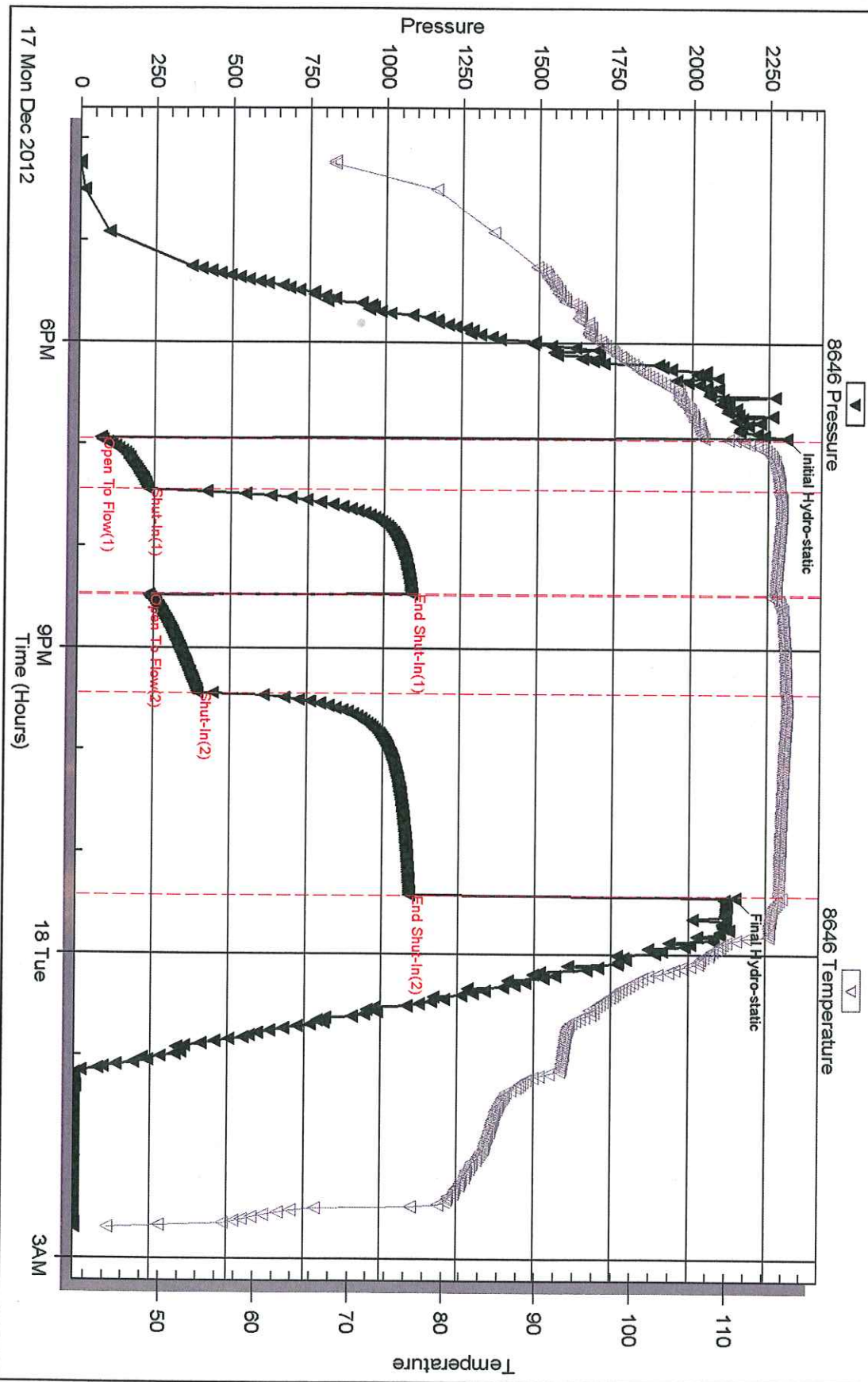
Serial #: 8646

Inside Raydon Exploration

George #1-30

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 51319

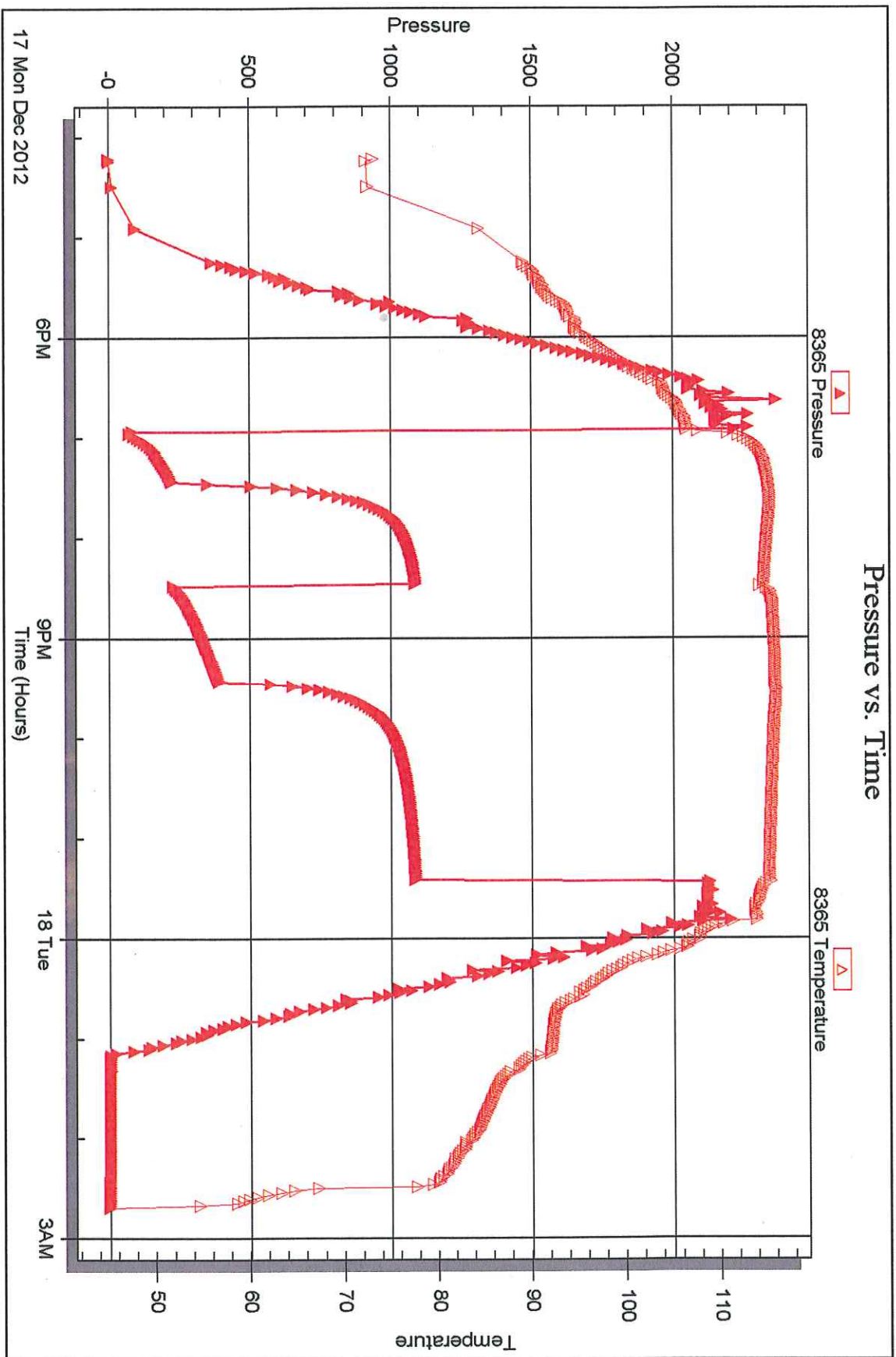
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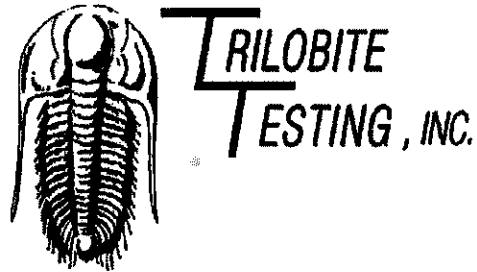
Serial #: 8365

Outside Raydon Exploration

George #1-30

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration**

1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118

ATTN: Ed Grieves

**George #1-30**

**30-33s-30w Meade,KS**

Start Date: 2012.12.21 @ 21:00:00

End Date: 2012.12.22 @ 08:52:00

Job Ticket #: 51261                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.26 @ 09:13:54

Raydon Exploration

30-33s-30w Meade,KS

George #1-30

DST # 2

Morrow

2012.12.21



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Raydon Exploration  
1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

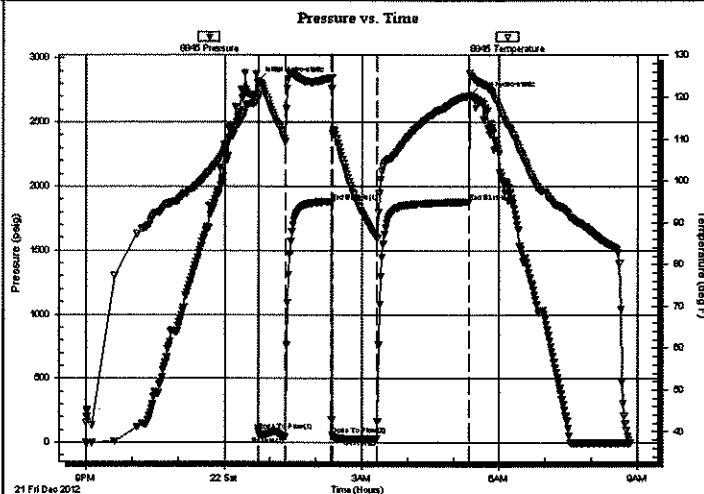
**30-33s-30w Meade, KS**  
**George #1-30**  
Job Ticket: 51261      DST#: 2  
Test Start: 2012.12.21 @ 21:00:00

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 00:45:00  
Time Test Ended: 08:52:00  
Interval: **5713.00 ft (KB) To 5730.00 ft (KB) (TVD)**  
Total Depth: 5730.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 64  
Reference Elevations: 4495.00 ft (KB)  
4485.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8845      Outside**  
Press@RunDepth: 33.76 psig @ 5714.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.12.21      End Date: 2012.12.22      Last Calib.: 2012.12.22  
Start Time: 21:00:05      End Time: 08:52:00      Time On Btm: 2012.12.22 @ 00:44:15  
Time Off Btm: 2012.12.22 @ 05:22:00

**TEST COMMENT:** IF: BOB @ 15 seconds. Gas to surface @ 15 min.  
IS: No return.  
FF: BOB immediatly.  
FS: Weak surface return died @ 25 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2821.39	119.88	Initial Hydro-static
1	87.89	121.86	Open To Flow (1)
35	45.96	109.30	Shut-in(1)
97	1881.49	124.57	End Shut-in(1)
98	62.69	111.21	Open To Flow (2)
157	33.76	86.16	Shut-in(2)
277	1878.31	120.45	End Shut-in(2)
278	2707.65	125.76	Final Hydro-static

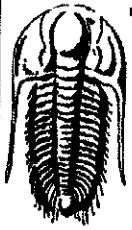
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

\* Recovery from multiple tests

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	14.00	189.55
Last Gas Rate	0.50	16.00	203.05
Max. Gas Rate	0.50	17.00	209.79



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Raydon Exploration  
1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

30-33s-30w Meade, KS

**George #1-30**

Job Ticket: 51261

DST#: 2

Test Start: 2012.12.21 @ 21:00:00

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:45:00

Time Test Ended: 08:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: **5713.00 ft (KB) To 5730.00 ft (KB) (TVD)**

Total Depth: 5730.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 4495.00 ft (KB)

4485.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8017** Outside

Press@RunDepth: psig @ 5714.00 ft (KB)

Start Date: 2012.12.21

End Date: 2012.12.22

Start Time: 21:00:05

End Time: 08:52:00

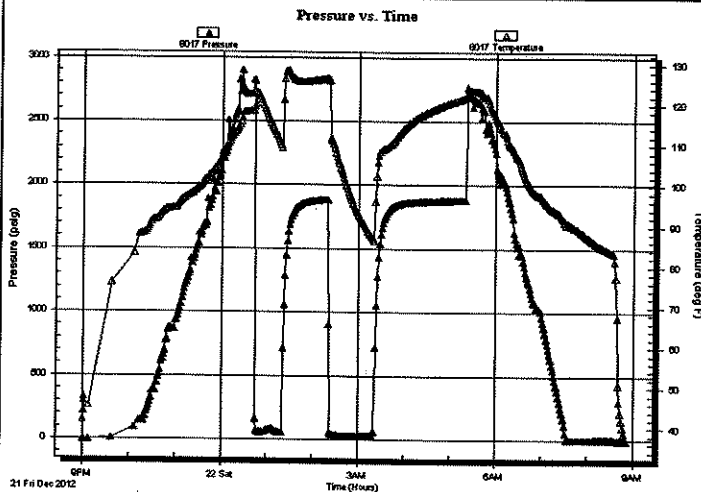
Capacity: 8000.00 psig

Last Calib.: 2012.12.22

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 15 seconds. Gas to surface @ 15 min.  
IS: No return.  
FF: BOB immediatly.  
FSI: Weak surface return died @ 25 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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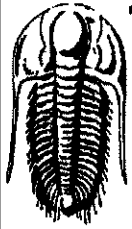
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

\* Recovery from multiple tests

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	14.00	189.55
Last Gas Rate	0.50	16.00	203.05
Max. Gas Rate	0.50	17.00	209.79



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raydon Exploration  
1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

**30-33s-30w Meade,KS**  
**George #1-30**  
Job Ticket: 51261      DST#: 2  
Test Start: 2012.12.21 @ 21:00:00

**Tool Information**

Drill Pipe:	Length: 5402.00 ft	Diameter: 3.80 inches	Volume: 75.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 297.00 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose: 90000.00 lb
		<b>Total Volume:</b>	<b>77.24 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	5713.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			5685.00	
Shut In Tool	5.00			5690.00	
Hydraulic tool	5.00			5695.00	
Jars	5.00			5700.00	
Safety Joint	3.00			5703.00	
Change Over Sub	1.00			5704.00	
Packer	5.00			5709.00	29.00      Bottom Of Top Packer
Packer	4.00			5713.00	
Stubb	1.00			5714.00	
Recorder	0.00	8017	Outside	5714.00	
Recorder	0.00	8845	Outside	5714.00	
Perforations	11.00			5725.00	
Bullnose	5.00			5730.00	17.00      Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raydon Exploration

**30-33s-30w Meade, KS**

1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

**George #1-30**

Job Ticket: 51261

DST#: 2

Test Start: 2012.12.21 @ 21:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.19 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API  
ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Raydon Exploration

**30-33s-30w Meade, KS**

1601 NW Expressway  
STE 1300  
Oklahoma City OK 73118  
ATTN: Ed Grieves

**George #1-30**

Job Ticket: 51261

**DST#: 2**

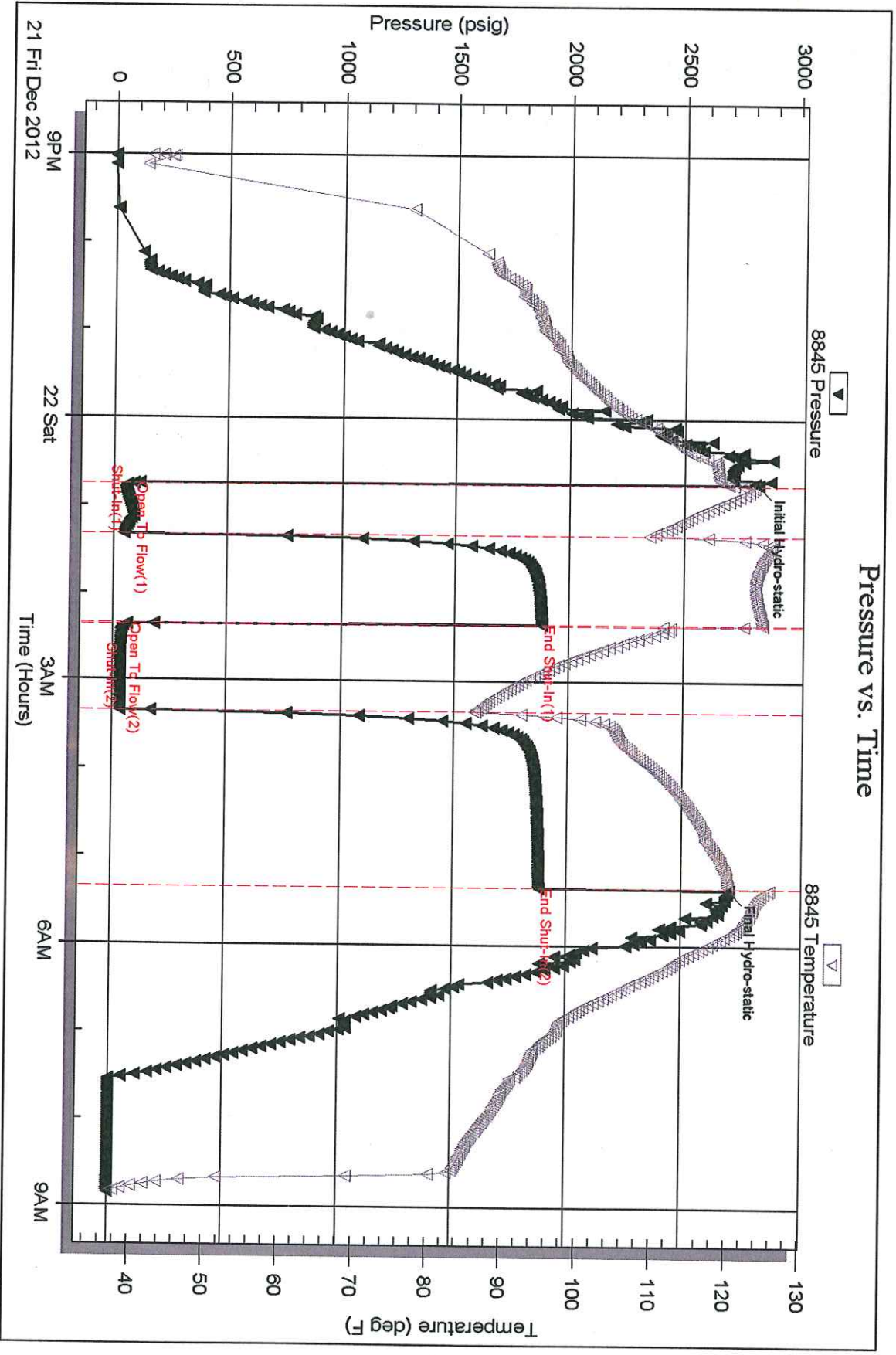
Test Start: 2012.12.21 @ 21:00:00

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	1	0.50	14.00	189.55
2	5	0.50	17.00	209.79
2	10	0.50	17.00	209.79
2	20	0.50	16.00	203.05
2	30	0.50	16.00	203.05
2	40	0.50	16.00	203.05
2	50	0.50	16.00	203.05
2	60	0.50	16.00	203.05

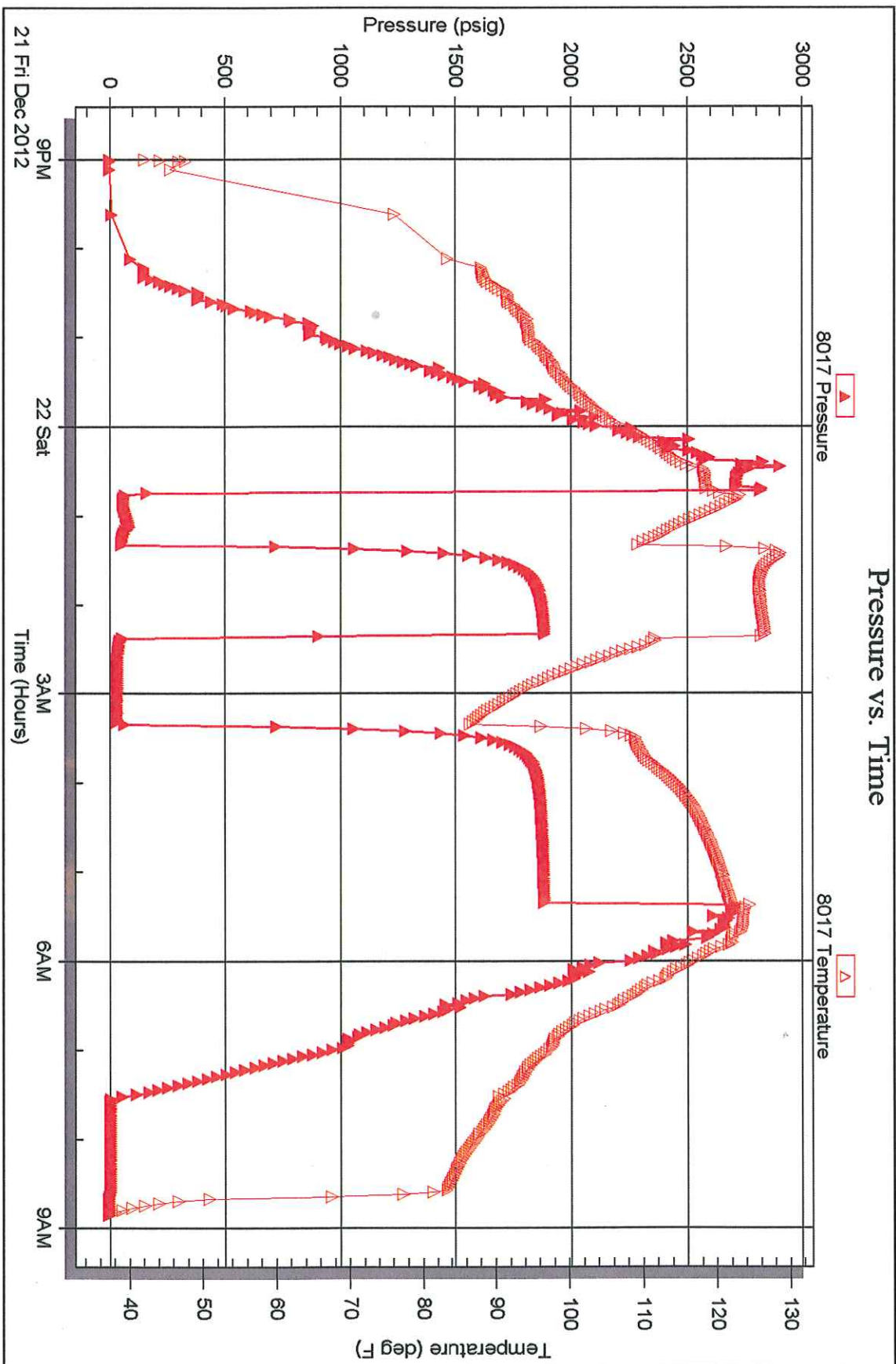


Serial #: 8017

Outside Raydon Exploration

George #1-30

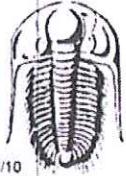
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51261

Printed: 2012.12.26 @ 09:14:00



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51319

Well Name & No. Raydon Exploration Test No. 1 Date 12-17-12  
 Company George #1-30 Elevation 2723 KB 2713 GL  
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118  
 Co. Rep / Geo. Ed Grievess Rig Tomcat #4  
 Location: Sec. 30 Twp. 33 Rge. 36 Co. Meade State KS

Interval Tested 4485-4495 Zone Tested "A"  
 Anchor Length 10 Drill Pipe Run 4195 Mud Wt. 9.0  
 Top Packer Depth 4481 Drill Collars Run 297 Vis 44  
 Bottom Packer Depth 4485 Wt. Pipe Run Ø WL 8.4  
 Total Depth 4495 Chlorides 3800 ppm System LCM 10  
 Blow Description IF: BOB in 4 MIN  
IS: NO Return Blow  
FF: BOB in 5 MIN  
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	Feet of <u>Free oil</u>				
<u>134</u>	Feet of <u>wcm</u>		<u>20</u>	<u>80</u>	
<u>124</u>	Feet of <u>mcw</u>		<u>50</u>	<u>50</u>	
<u>979</u>	Feet of <u>SW</u>		<u>100</u>		

Rec Total 1239 BHT 115 Gravity ✓ API RW .275 @ 35.7° F Chlorides 68,000 ppm  
 (A) Initial Hydrostatic 2310  Test 1250 T-On Location 15:50  
 (B) First Initial Flow 73  Jars 250 T-Started 16:13  
 (C) First Final Flow 231  Safety Joint 75 T-Open 18:56  
 (D) Initial Shut-In 1089  Circ Sub NC T-Pulled 23:26  
 (E) Second Initial Flow 233  Hourly Standby \_\_\_\_\_ T-Out 02:42  
 (F) Second Final Flow 395  Mileage RT 230 <sup>356.50</sup> Comments \_\_\_\_\_  
 (G) Final Shut-In 1088  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2150  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer 250  Extra Copies \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 120  Day Standby \_\_\_\_\_ Total 2431.50  
 Accessibility NO Stairs MP/DST Disc't \_\_\_\_\_  
 Sub Total 150 ON Catwalk

Approved By [Signature] Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51261

Well Name & No. George #1-30 Test No. 2 Date 12/21/12  
 Company Raydon Exploration Elevation 4495 KB 4485 GL  
 Address 1601 NW Express way STE 1300 Oklahoma City, OK 73118  
 Co. Rep / Geo. Ed Grievus Rig Tancest #4  
 Location: Sec. 30 Twp. 33 Rge. 30 Co. McAlester State KS

Interval Tested 5713-5730 Zone Tested Morrow  
 Anchor Length 17 Drill Pipe Run 5402 Mud Wt. 9.0  
 Top Packer Depth 5709 Drill Collars Run 297 Vis 55  
 Bottom Packer Depth 5713 Wt. Pipe Run Ø WL 62  
 Total Depth 5730 Chlorides 2600 ppm System LCM 10

Blow Description BoB @ 15 seconds. Gas to surface @ 15 min.  
No return.  
BoB + Gas to surface immediately.  
Weak surface return died @ 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2821</u>	<input checked="" type="checkbox"/> Test	<u>1350</u>	T-On Location	<u>18:50</u>
(B) First Initial Flow	<u>88</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>21:00</u>
(C) First Final Flow	<u>46</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>03:44</u>
(D) Initial Shut-In	<u>1881</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u> 3hr 300	T-Pulled	<u>5:20</u>
(E) Second Initial Flow	<u>63</u>	<input checked="" type="checkbox"/> Hourly Standby	<u>predicted time out 19:30</u>	T-Out	<u>8:52</u>
(F) Second Final Flow	<u>34</u>	<input checked="" type="checkbox"/> Mileage	<u>232 R/T</u> 356.50	Comments/Notes	<u>to 15</u>
(G) Final Shut-In	<u>1876</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2708</u>	<input type="checkbox"/> Straddle		<input checked="" type="checkbox"/> Ruined Shale Packer	<u>350</u>

Initial Open	<u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<u>X 2</u> 500	<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>350</u>
Final Shut-In	<u>120</u>	<input type="checkbox"/> Day Standby	<u>150</u>	Total	<u>3331.50</u>
		<input checked="" type="checkbox"/> Accessibility	<u>No Steps on catwalk</u>	MP/DST Disc't	
		Sub Total	<u>2981.50</u>		

Approved By [Signature] Our Representative [Signature]

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