



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1136016  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
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
- Plug Back       Conv. to GSW       Conv. to Producer
- 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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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



1136016

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](mailto: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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Rees Ranch 2-19
Doc ID	1136016

All Electric Logs Run

Compensated Sonic with Integrated Transit Time
Array Induction Shallow Focused Electric Log
Microresistivity Log
Compact Photo Density Compensated Neutron Log

Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Rees Ranch 2-19
Doc ID	1136016

Tops

Name	Top	Datum
Base Anhydrite	2363	+829
Heebner	3972	-780
Toronto	3994	-802
Lansing	4021	-829
Stark Shale	4326	-1134
Base Kansas City	4473	-1281
Marmaton	4508	-1316
Ft Scott	4630	-1438
Cherokee Shale	4645	-1453
Johnson Zone	4742	-1550
Morrow shale	4850	-1658
Mississippian	4953	-1761



# ALLIED OIL & GAS SERVICES, LLC 058857

Federal Tax I.D.# 20-5975804

SERVICE POINT: Oakley, KS

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

DATE <u>1-5-13</u>	SEC. <u>19</u>	TWP. <u>19</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION <u>9:15am</u>	JOB START <u>11:30am</u>	JOB FINISH <u>11:30am</u>
LEASE <u>Rees Ranch</u>	WELL # <u>2-19</u>	LOCATION <u>Marienthal, Ks S.S.,</u>			COUNTY <u>Wichita</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>Wichita</u>				101 8.3			

CONTRACTOR H2 #1 OWNER same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 308'

CASING SIZE 8 7/8 DEPTH 307.51'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 18.72 661

EQUIPMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 200sks cement 390.00

2 bags

COMMON	<u>200sks</u>	@ <u>12.90</u>	<u>3580.00</u>
POZMIX		@	
GEL	<u>75sks</u>	@ <u>23.40</u>	<u>1756.50</u>
CHLORIDE	<u>75ks</u>	@ <u>64.00</u>	<u>4800.00</u>
ASC		@	

PUMP TRUCK CEMENTER Lakona Wentz

# 431 HELPER Paul Bower

BULK TRUCK DRIVER David Scariano

# 347

BULK TRUCK DRIVER \_\_\_\_\_

HANDLING 216.27843 @ 2.48 536.35

MILEAGE 7.82720 x 20 x 2.60 1796.34

TOTAL 6454.29

REMARKS:

Mix 200 sks cement

Displace with water

Cement did circulate

Thank you

SERVICE

DEPTH OF JOB 307.51

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE M.I.F.U. 70 @ 7.70 539.00

MANIFOLD Swedge @ \_\_\_\_\_

M.I.F.U. 70 @ 4.40 308.00

CHARGE TO: SDOCO, LLC

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3632.25

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any) 342.09

TOTAL CHARGES 9,088.54

DISCOUNT 1908.59 IF PAID IN 30 DAYS

PRINTED NAME Gary Doley

SIGNATURE [Signature]

2190 7179.95 net



## DRILL STEM TEST REPORT

Prepared For: **SDOCO LLC**  
PO box 369  
Littleton, CO 80160

ATTN: Gary Doke

### **Rees Ranch #2-19**

### **19-19s-35w Wichita,KS**

Start Date: 2013.01.09 @ 21:55:00  
End Date: 2013.01.10 @ 07:28:15  
Job Ticket #: 51264                      DST #: 1

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

Printed: 2013.01.15 @ 14:24:50

SDOCO LLC  
19-19s-35w Wichita,KS  
Rees Ranch #2-19  
DST # 1  
Marraton  
2013.01.09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Duke

**19-19s-35w Wichita, KS**  
**Rees Ranch #2-19**  
Job Ticket: 51264      DST#: 1  
Test Start: 2013.01.09 @ 21:55:00

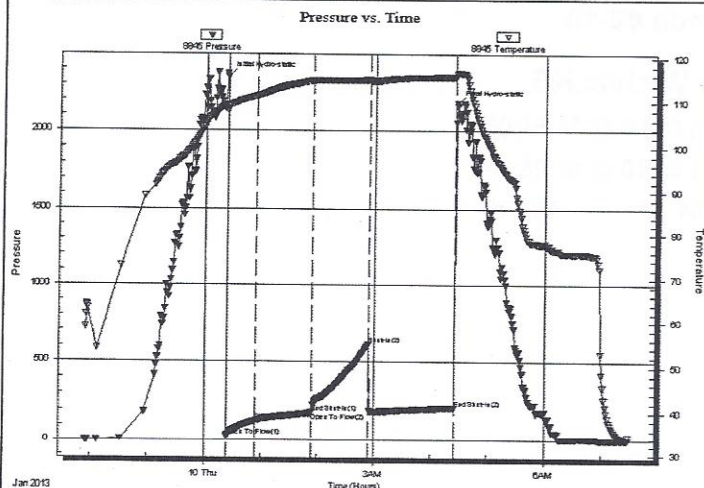
## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 00:23:30  
Time Test Ended: 07:28:15  
Interval: **4490.00 ft (KB) To 4525.00 ft (KB) (TVD)**  
Total Depth: 4525.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Sam Esparza  
Unit No: 64  
Reference Elevations: 3191.00 ft (KB)  
3181.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8845      Outside**  
Press@RunDepth: 608.88 psig @ 4491.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.01.09      End Date: 2013.01.10      Last Calib.: 2013.01.10  
Start Time: 21:55:05      End Time: 07:28:15      Time On Btm: 2013.01.10 @ 00:23:15  
Time Off Btm: 2013.01.10 @ 04:27:30

TEST COMMENT: IF: BOB @ 18 min.  
IS: BOB return @ 28 min.  
FF: BOB immediatly died back to 8 3/4" blow.  
FS: BOB return @ 31 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.19	109.41	Initial Hydro-static
1	23.50	108.09	Open To Flow (1)
31	125.47	111.45	Shut-In(1)
91	178.29	114.91	End Shut-In(1)
91	178.37	114.92	Open To Flow (2)
151	608.88	115.11	Shut-In(2)
243	212.85	115.76	End Shut-In(2)
245	2176.23	116.77	Final Hydro-static

## Recovery

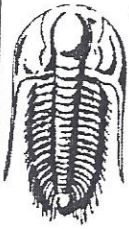
Length (ft)	Description	Volume (bbl)
188.00	GOCM 20g 20o 60m	0.92
292.00	OG 55g 45o	2.44
0.00	940' GIP	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Duke

19-19s-35w Wichita, KS  
Rees Ranch #2-19  
Job Ticket: 51264      DST#: 1  
Test Start: 2013.01.09 @ 21:55:00

**Tool Information**

Drill Pipe:	Length: 4109.00 ft	Diameter: 3.80 inches	Volume: 57.64 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: 30000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4490.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 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			4468.00	
Shut In Tool	5.00			4473.00	
Sampler	2.00			4475.00	
Hydraulic tool	5.00			4480.00	
Change Over Sub	1.00			4481.00	
Packer	5.00			4486.00	23.00      Bottom Of Top Packer
Packer	4.00			4490.00	
Stubb	1.00			4491.00	
Recorder	0.00	8017	Outside	4491.00	
Recorder	0.00	8845	Outside	4491.00	
Perforations	29.00			4520.00	
Bullnose	5.00			4525.00	35.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Duke

19-19s-35w Wichita, KS  
Rees Ranch #2-19  
Job Ticket: 51264      DST#: 1  
Test Start: 2013.01.09 @ 21:55:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 7.97 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 4800.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 32 deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	GOCM 20g 20o 60m	0.925
292.00	OG 55g 45o	2.438
0.00	940' GIP	0.000

Total Length: 480.00 ft      Total Volume: 3.363 bbl

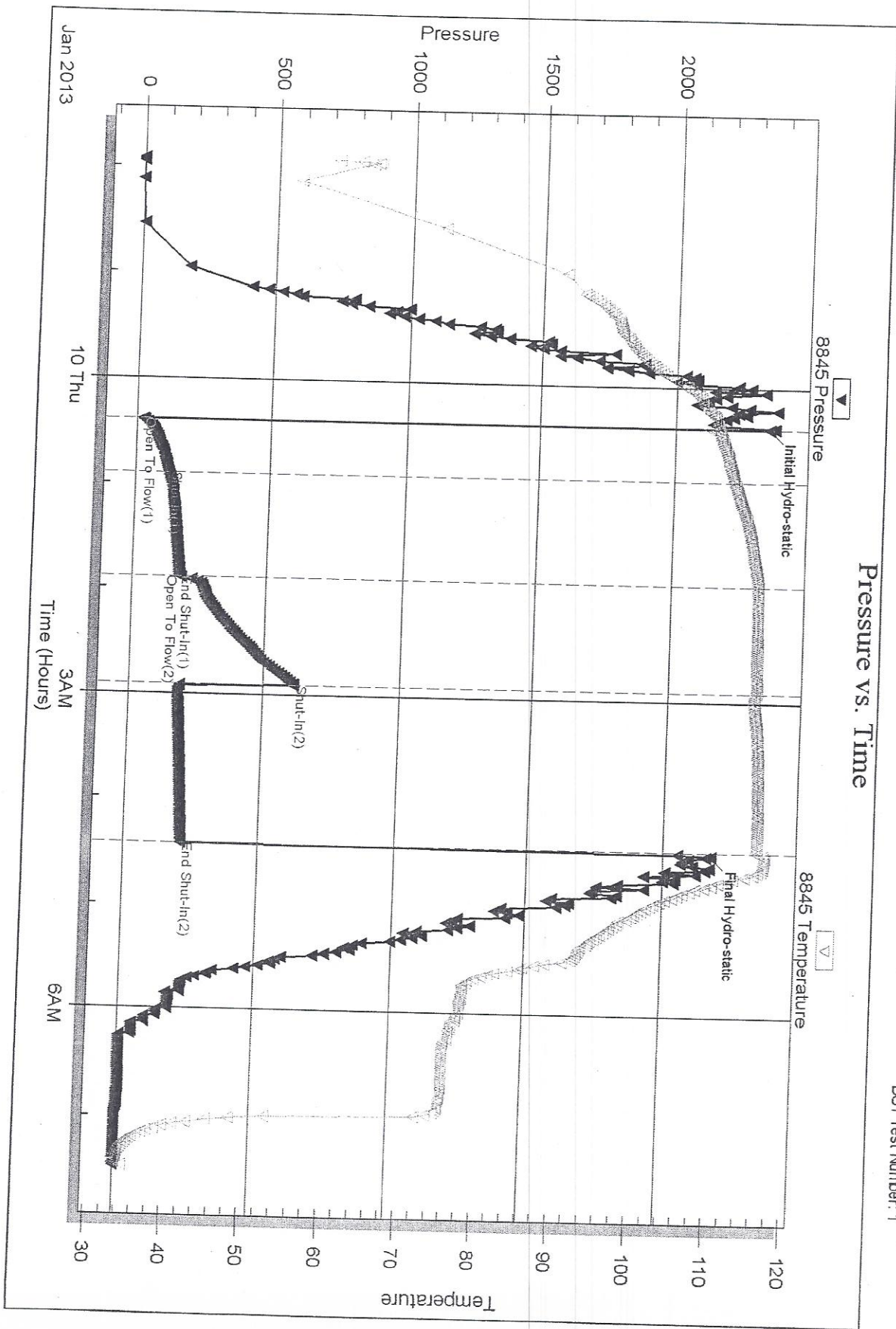
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: Oil API: 30 @ 40 degrees= 32

Serial #: 8845

Outside SDOOCO LLC

Rees Ranch #2-19

DST Test Number: 1



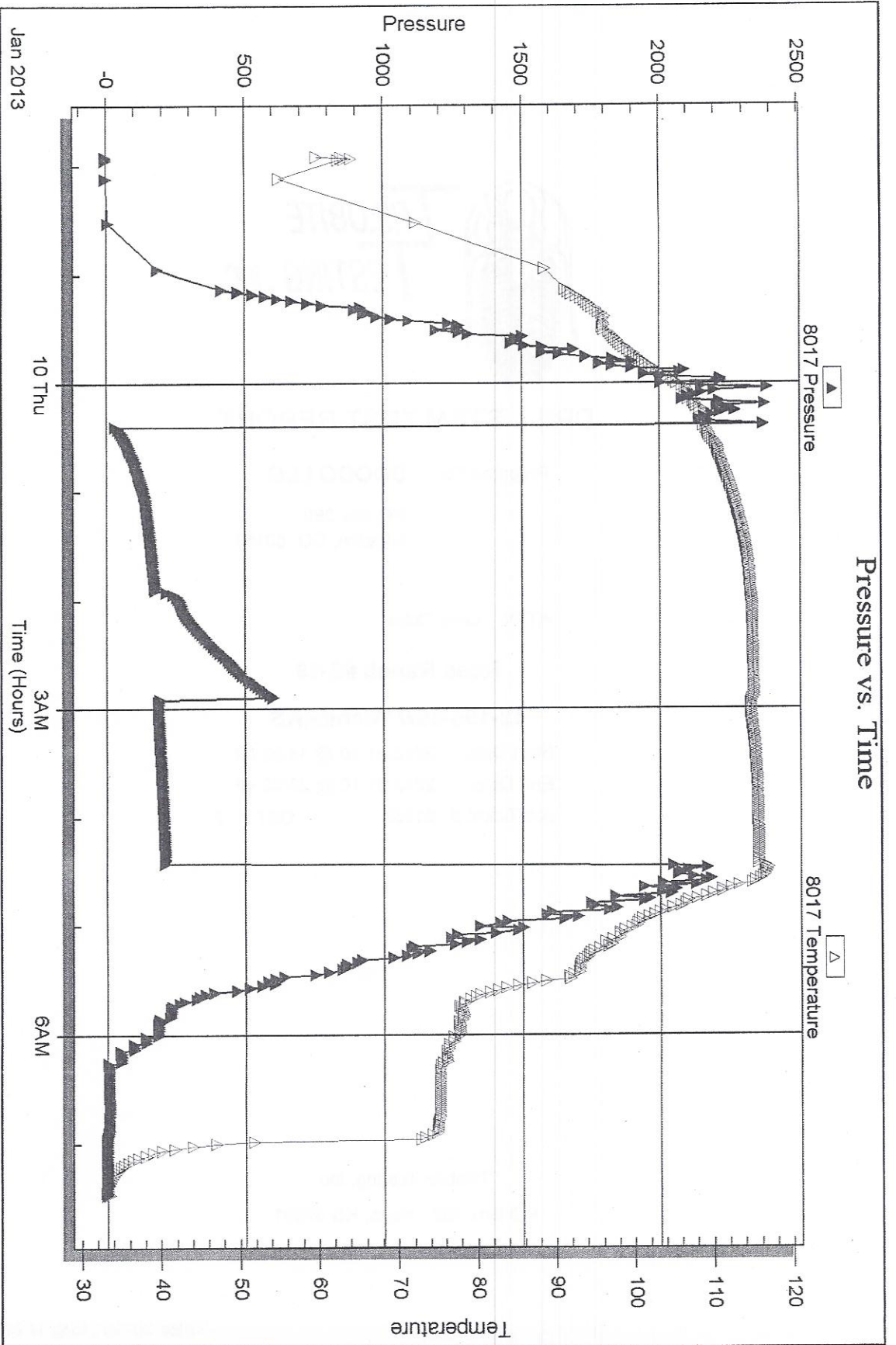


Serial #: 8017

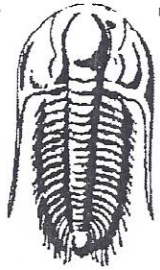
Outside SDOCO LLC

Rees Ranch #2-19

DST Test Number: 1







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **SDOCO LLC**

PO box 369  
Littleton, CO 80160

ATTN: Gary Doke

**Rees Ranch #2-19**

**19-19s-35w Wichita,KS**

Start Date: 2013.01.10 @ 14:23:00

End Date: 2013.01.10 @ 23:32:45

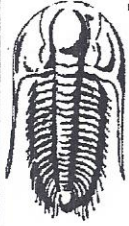
Job Ticket #: 51265                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

SDOCO LLC  
19-19s-35w Wichita,KS  
Rees Ranch #2-19  
DST # 2  
Marraton  
2013.01.10



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
  
ATTN: Gary Doke

19-19s-35w Wichita, KS  
**Rees Ranch #2-19**  
Job Ticket: 51265      DST#: 2  
Test Start: 2013.01.10 @ 14:23:00

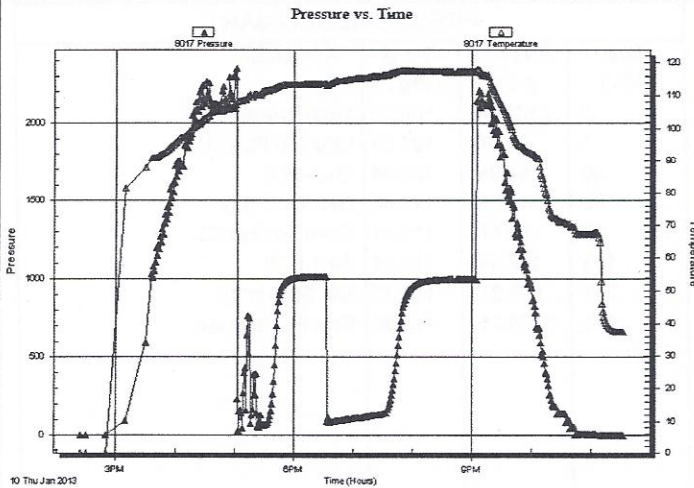
## GENERAL INFORMATION:

Formation:	Marmaton			Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)		Tester:	Sam Esparza
Time Tool Opened:	17:02:15			Unit No:	64
Time Test Ended:	23:32:45			Reference Elevations:	3191.00 ft (KB) 3181.00 ft (CF)
Interval:	4524.00 ft (KB) To 4538.00 ft (KB) (TVD)			KB to GR/CF:	10.00 ft
Total Depth:	4538.00 ft (KB) (TVD)				
Hole Diameter:	7.88 inches	Hole Condition:	Good		

<b>Serial #: 8017</b>	<b>Outside</b>				
Press@RunDepth:	psig @	4525.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2013.01.10	End Date:	2013.01.10	Last Calib.:	2013.01.10
Start Time:	14:24:25	End Time:	23:32:59	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: 4 3/4" blow.  
ISI: Weak surface return died @ 45 min.  
FF: BOB @ 57 min.  
FSI: Weak surface return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
94.00	GOMCW 5g 10o 30m 55w	0.46
114.00	GOCM 20g 20o 60m	0.56
168.00	GO 50g 50o	0.88
0.00	188' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

SODOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Duke

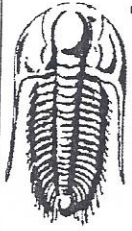
19-19s-35w Wichita, KS  
**Rees Ranch #2-19**  
Job Ticket: 51265      DST#: 2  
Test Start: 2013.01.10 @ 14:23:00

### Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 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:	30000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose:	110000.0 lb
			<b>Total Volume: 59.89 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	4524.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 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			4504.00	
Shut In Tool	5.00			4509.00	
Hydraulic tool	5.00			4514.00	
Change Over Sub	1.00			4515.00	
Packer	5.00			4520.00	21.00      Bottom Of Top Packer
Packer	4.00			4524.00	
Stubb	1.00			4525.00	
Recorder	0.00	8017	Outside	4525.00	
Recorder	0.00	8845	Outside	4525.00	
Perforations	8.00			4533.00	
Bullnose	5.00			4538.00	14.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
  
ATTN: Gary Duke

19-19s-35w Wichita, KS  
**Rees Ranch #2-19**  
Job Ticket: 51265      DST#: 2  
Test Start: 2013.01.10 @ 14:23:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5600.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
94.00	GOMCW 5g 10o 30m 55w	0.462
114.00	GOCM 20g 20o 60m	0.561
168.00	GO 50g 50o	0.881
0.00	188' GIP	0.000

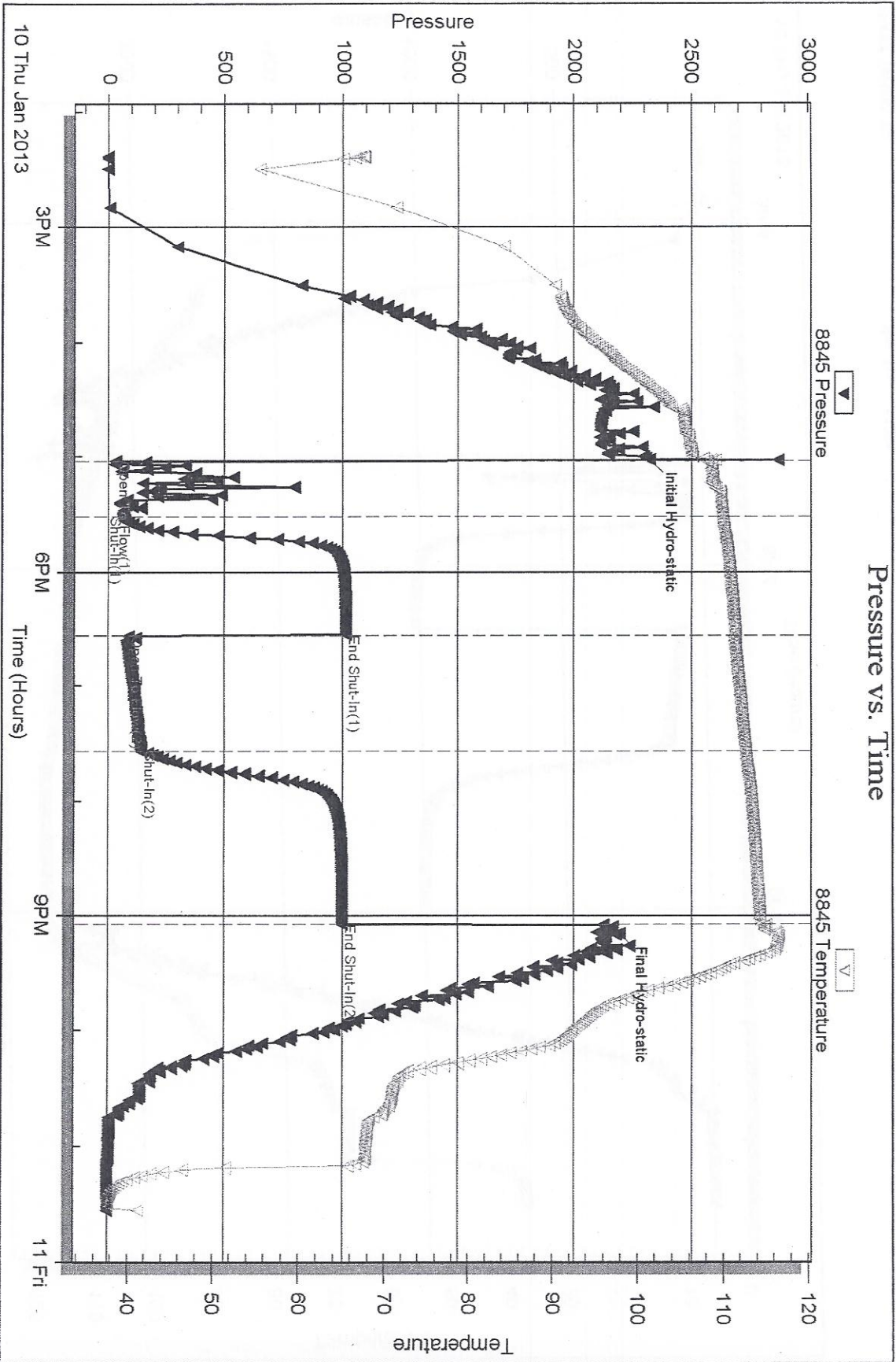
Total Length: 376.00 ft      Total Volume: 1.904 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Oil API: 28 @ 40 degrees= 30

Serial #: 8845

Outside SDOCO LLC

Rees Ranch #2-19

DST Test Number: 2

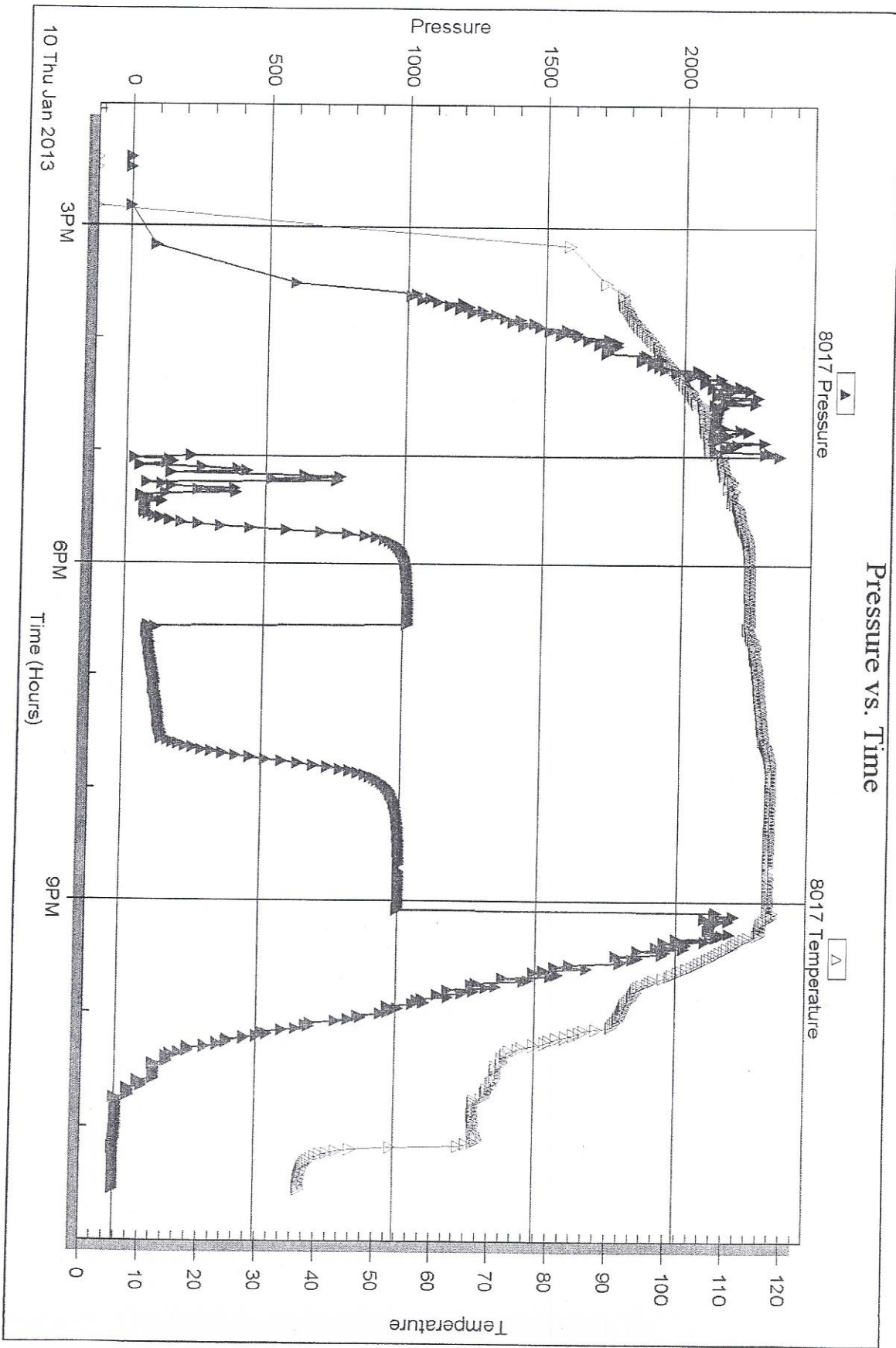


Serial #: 8017

Outside SDOCO LLC

Rees Ranch #2-19

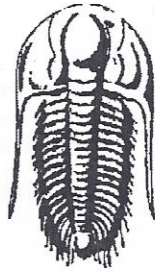
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51265

Printed: 2013.01.15 @ 14:24:12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **SDOCO LLC**

PO box 369  
Littleton, CO 80160

ATTN: Gary Doke

### Rees Ranch #2-19

#### 19-19s-35w Wichita,KS

Start Date: 2013.01.11 @ 11:09:00

End Date: 2013.01.11 @ 17:06:00

Job Ticket #: 51266                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.15 @ 14:23:27

SDOCO LLC

19-19s-35w Wichita,KS

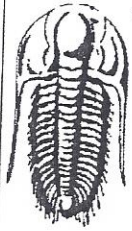
Rees Ranch #2-19

DST # 3

Fl. Scott

2013.01.11





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

SDOCO LLC  
 PO box 369  
 Littleton, CO 80160  
 ATTN: Gary Doke

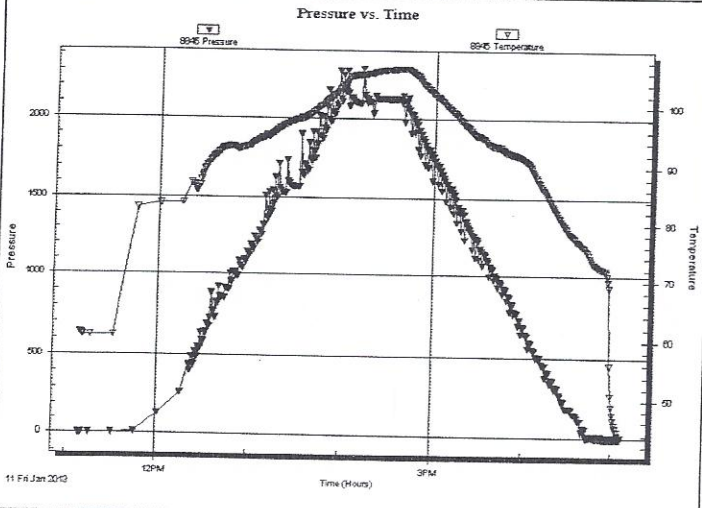
19-19s-35w Wichita, KS  
 Rees Ranch #2-19  
 Job Ticket: 51266 DST#: 3  
 Test Start: 2013.01.11 @ 11:09:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended: 17:06:00  
 Interval: **4583.00 ft (KB) To 4615.00 ft (KB) (TVD)**  
 Total Depth: 4615.00 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: 3191.00 ft (KB)  
 3181.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8845** Outside  
 Press@RunDepth: psig @ 4584.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.11 End Date: 2013.01.11 Last Calib.: 2013.01.11  
 Start Time: 11:09:05 End Time: 17:05:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: Hit a bridge.  
 IS:  
 FF:  
 FSI:



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

SDOCO LLC  
 PO box 369  
 Littleton, CO 80160  
 ATTN: Gary Doke

19-19s-35w Wichita, KS  
**Rees Ranch #2-19**  
 Job Ticket: 51266 DST#: 3  
 Test Start: 2013.01.11 @ 11:09:00

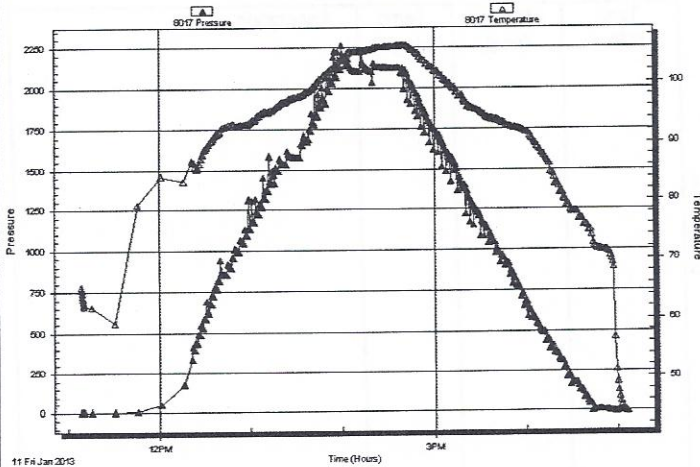
### GENERAL INFORMATION:

Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended: 17:06:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Interval: **4583.00 ft (KB) To 4615.00 ft (KB) (TVD)**  
 Total Depth: 4615.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Reference Elevations: 3191.00 ft (KB)  
 3181.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8017** Outside  
 Press@RunDepth: psig @ 4584.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2013.01.11 End Date: 2013.01.11 Last Calib.: 2013.01.11  
 Start Time: 11:09:05 End Time: 17:06:14 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: Hit a bridge.  
 IS:  
 FF:  
 FSI:

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Doke

**19-19s-35w Wichita, KS**  
**Rees Ranch #2-19**  
Job Ticket: 51266      **DST#: 3**  
Test Start: 2013.01.11 @ 11:09:00

**Tool Information**

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 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: 30000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 60.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial lb
Depth to Top Packer:	4583.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 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			4564.00	
Shut In Tool	5.00			4569.00	
Hydraulic tool	5.00			4574.00	
Packer	5.00			4579.00	20.00      Bottom Of Top Packer
Packer	4.00			4583.00	
Stubb	1.00			4584.00	
Recorder	0.00	8017	Outside	4584.00	
Recorder	0.00	8845	Outside	4584.00	
Perforations	26.00			4610.00	
Bullnose	5.00			4615.00	32.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Doke

**19-19s-35w Wichita,KS**  
**Rees Ranch #2-19**  
Job Ticket: 51266      **DST#: 3**  
Test Start: 2013.01.11 @ 11:09:00

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9400.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

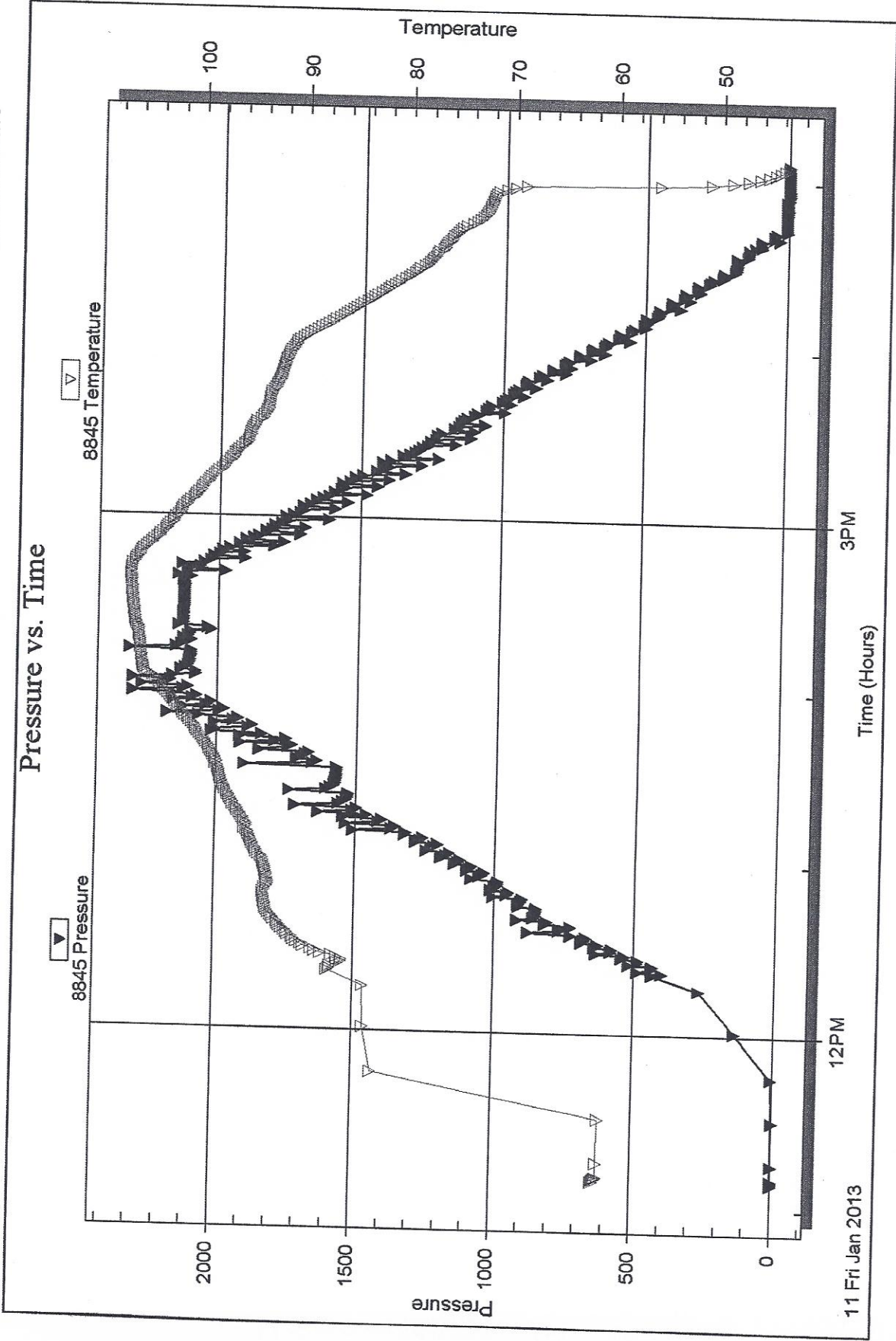
Total Length:                      ft      Total Volume:                      bbl  
 Num Fluid Samples: 0                      Num Gas Bombs:      0                      Serial #:  
 Laboratory Name:                      Laboratory Location:  
 Recovery Comments:

Serial #: 8845

Outside SDOCO LLC

Rees Ranch #2-19

DST Test Number: 3

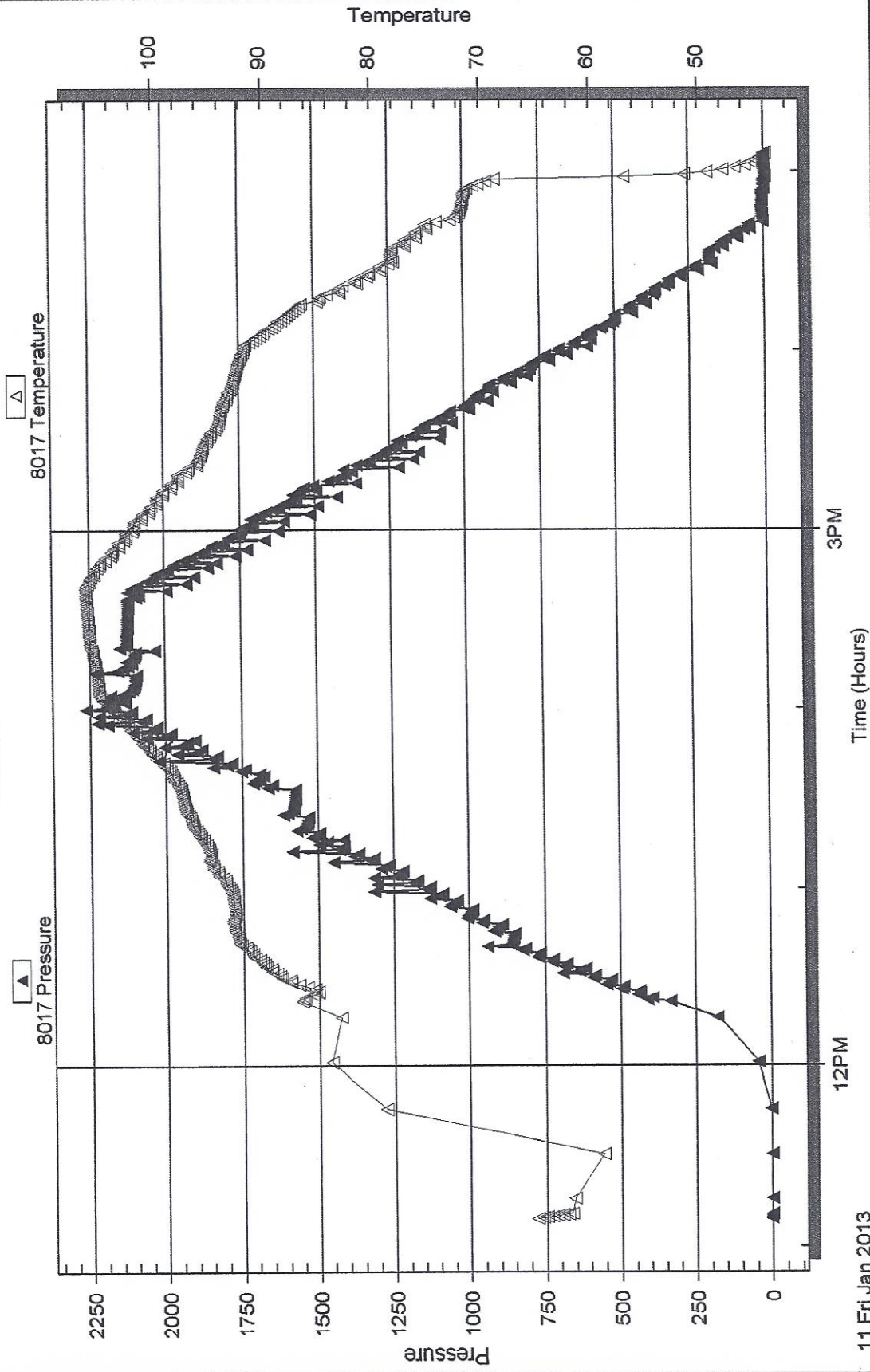


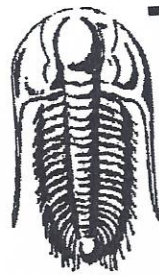
Trilobite Testing, Inc

Ref. No: 51266

Printed: 2013.01.15 @ 14:23:31

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **SDOCO LLC**

PO box 369  
Littleton, CO 80160

ATTN: Gary Doke

**Rees Ranch #2-19**

**19-19s-35w Wichita,KS**

Start Date: 2013.01.11 @ 23:48:00

End Date: 2013.01.12 @ 08:06:30

Job Ticket #: 51267                      DST #: 4

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

Printed: 2013.01.15 @ 14:19:53





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Doke

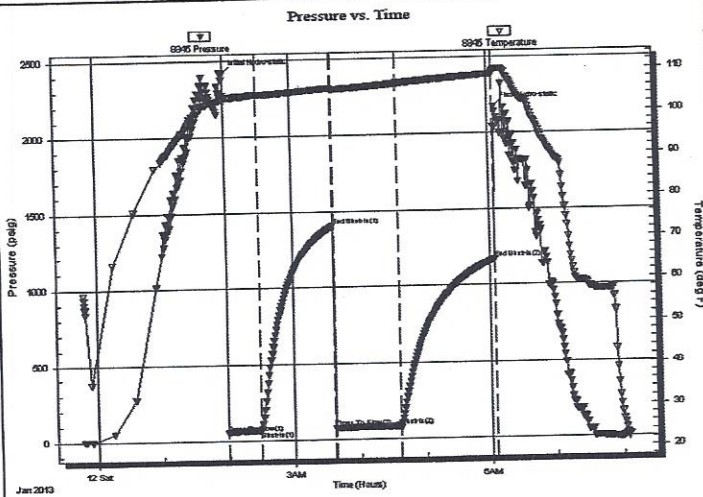
**19-19s-35w Wichita, KS**  
**Rees Ranch #2-19**  
Job Ticket: 51267      **DST#: 4**  
Test Start: 2013.01.11 @ 23:48:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:58:45  
Time Test Ended: 08:06:30  
Interval: **4583.00 ft (KB) To 4615.00 ft (KB) (TVD)**  
Total Depth: 4615.00 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: 3191.00 ft (KB)  
3181.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8845**      **Outside**  
Press@RunDepth: 84.18 psig @ 4584.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.01.11      End Date: 2013.01.12      Last Calib.: 2013.01.12  
Start Time: 23:48:05      End Time: 08:06:29      Time On Btm: 2013.01.12 @ 01:58:30  
Time Off Btm: 2013.01.12 @ 06:06:00

TEST COMMENT: IF: Weak surface blow.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2417.92	104.58	Initial Hydro-static
1	49.59	103.06	Open To Flow (1)
31	63.67	104.51	Shut-In(1)
99	1404.10	105.96	End Shut-In(1)
99	75.34	105.48	Open To Flow (2)
158	84.18	106.91	Shut-In(2)
246	1170.62	108.78	End Shut-In(2)
248	2171.55	109.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100m	0.59

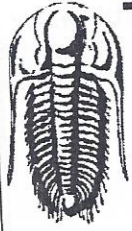
## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

SODOCO LLC

19-19s-35w Wichita, KS

PO box 369  
Littleton, CO 80160

Rees Ranch #2-19

Job Ticket: 51267

DST#: 4

ATTN: Gary Doke

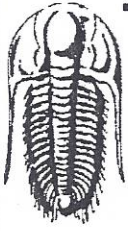
Test Start: 2013.01.11 @ 23:48:00

### Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl
			<u>Total Volume: 60.79 bbl</u>
Drill Pipe Above KB:	11.00 ft		
Depth to Top Packer:	4583.00 ft		
Depth to Bottom Packer:	ft		
Interval between Packers:	32.00 ft		
Tool Length:	52.00 ft		
Number of Packers:	2	Diameter: 6.75 inches	
Tool Comments:			

Tool Weight:	2000.00 lb
Weight set on Packer:	30000.00 lb
Weight to Pull Loose:	95000.00 lb
Tool Chased:	0.00 ft
String Weight: Initial	70000.00 lb
Final	70000.00 lb

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4564.00	
Shut In Tool	5.00			4569.00	
Hydraulic tool	5.00			4574.00	
Packer	5.00			4579.00	20.00 Bottom Of Top Packer
Packer	4.00			4583.00	
Stubb	1.00			4584.00	
Recorder	0.00	8017	Outside	4584.00	
Recorder	0.00	8845	Outside	4584.00	
Perforations	26.00			4610.00	
Bullnose	5.00			4615.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

SDOCO LLC  
PO box 369  
Littleton, CO 80160  
ATTN: Gary Doke

19-19s-35w Wichita, KS  
Rees Ranch #2-19  
Job Ticket: 51267      DST#: 4  
Test Start: 2013.01.11 @ 23:48:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 11.99 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 9400.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud 100m	0.590

Total Length: 120.00 ft      Total Volume: 0.590 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

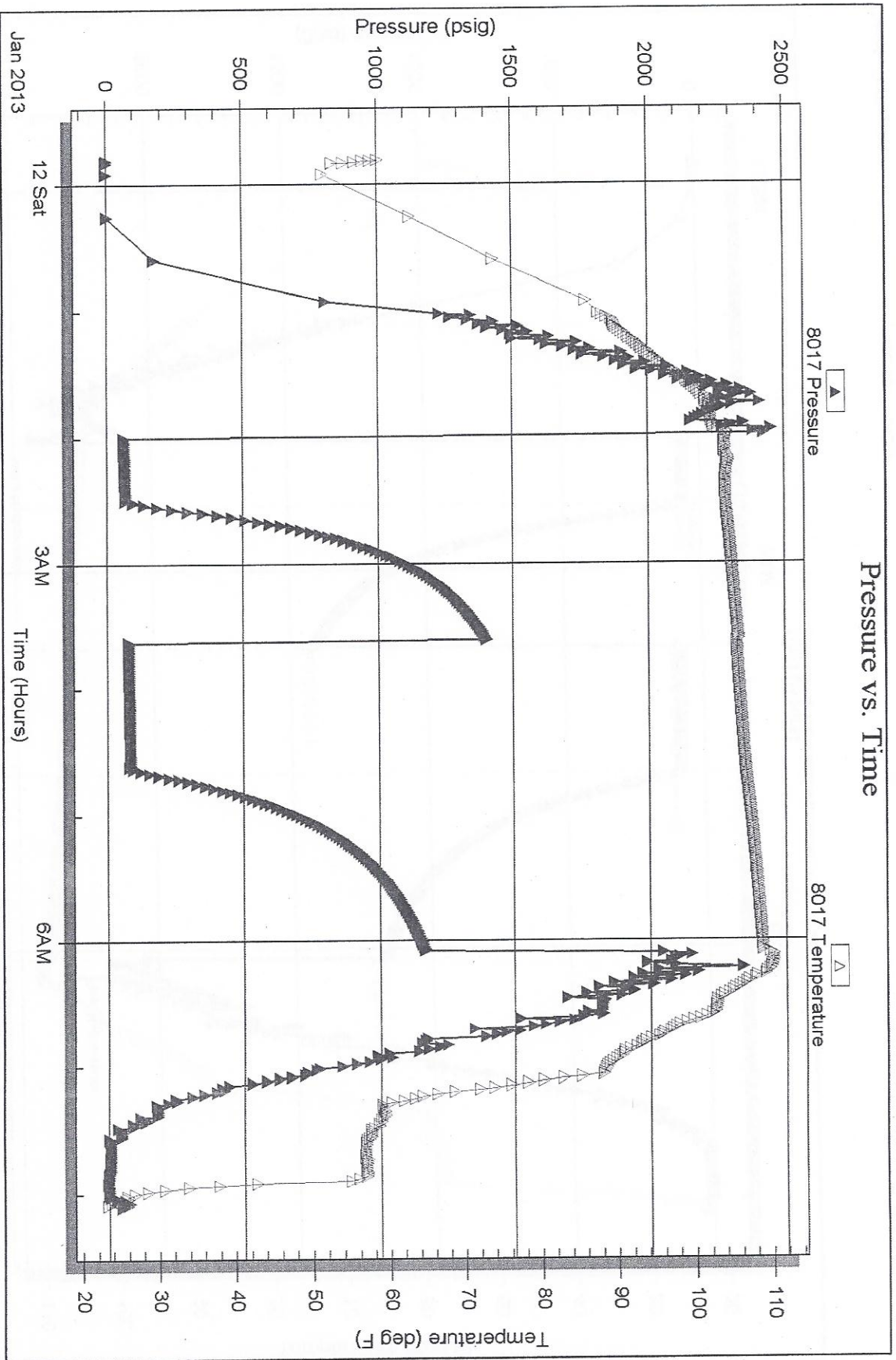


Serial #: 8017

Outside SDOCO LLC

Rees Ranch #2-19

DST Test Number: 4

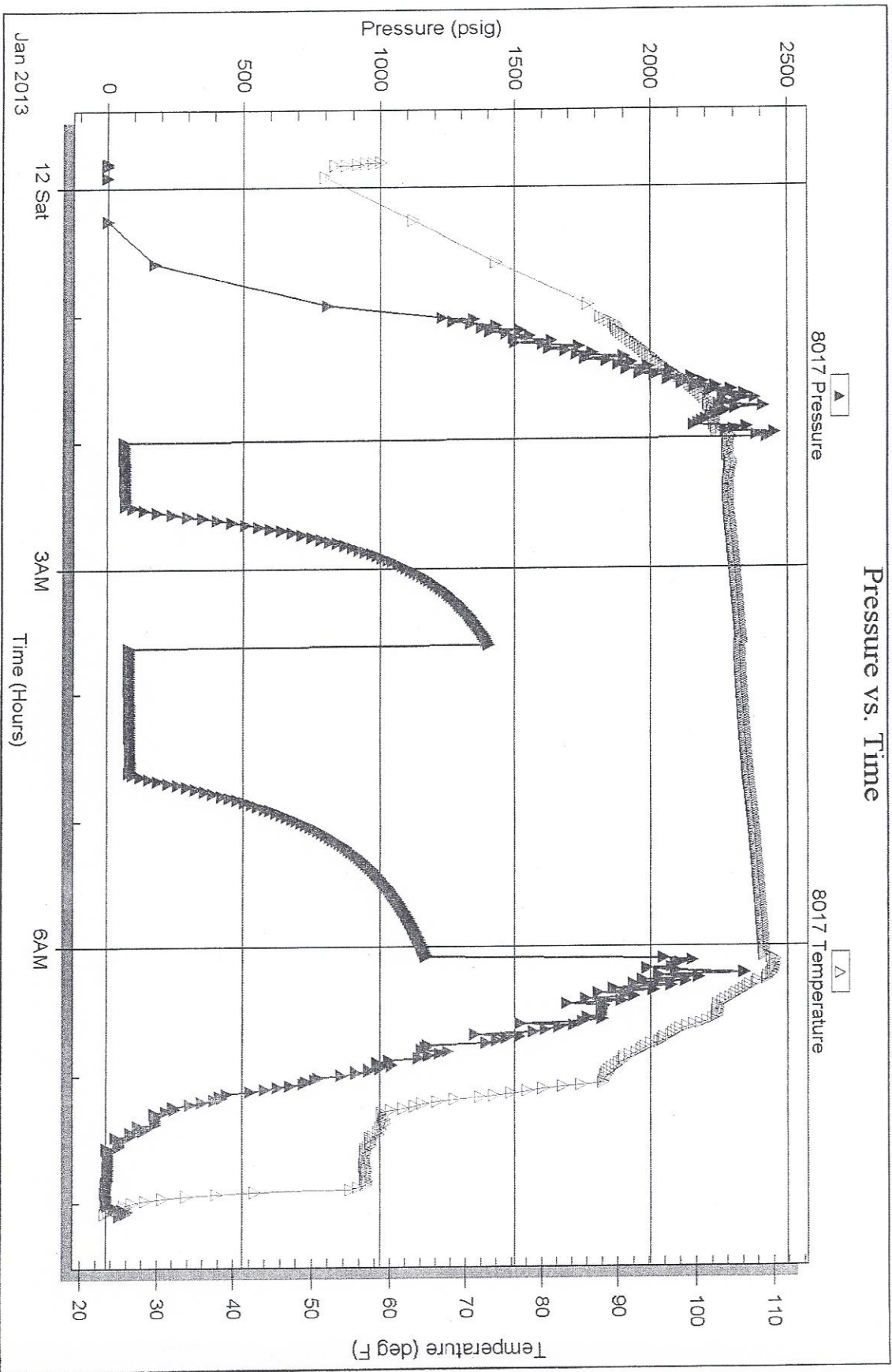


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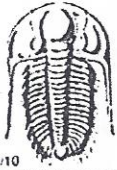
Outside SDOOO LLC

Rees Ranch #2-19

DST Test Number: 4







# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51266

Well Name & No. Rees Ranch #2-19 Test No. 3 Date 1/11/13  
 Company SDCO LLC Elevation 3711 KB 5181 GL  
 Address PO Box 369 Littleton, CO 80160  
 Co. Rep / Geo. Gory Duke Rig H2 #1  
 Location: Sec. 19 Twp. 19S Rge. 35W Co. Wichita State KS

Interval Tested 4583-4615 Zone Tested K.F. Scott  
 Anchor Length 30' Drill Pipe Run 4204 Mud Wt. 9.3  
 Top Packer Depth 4579 Drill Collars Run 370 Vis 48  
 Bottom Packer Depth 4583 Wt. Pipe Run Ø WL 12.0  
 Total Depth 4615 Chlorides 940 ppm System LCM 5

Blow Description H/A A BRIDGE

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1050 T-On Location 10:45  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 11:09  
 (C) First Final Flow N/A  Safety Joint \_\_\_\_\_ T-Open N/A  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub W/C T-Pulled N/A  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 17:06  
 (F) Second Final Flow \_\_\_\_\_  Mileage 52 R/T 80.60  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1530.60  
 \_\_\_\_\_  Accessibility 150 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1530.60

Approved By [Signature] Our Representative [Signature]

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, direct 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.**  
P.O. Box 362 • Hays, Kansas 67601

**FLUID SAMPLER DATA**

Ticket No. 51264 Date 1/9/13  
 Company Name SDOCO LLC  
 Lease Reas Ranch #2-19 Test No. 1  
 County Wichita Sec. 19 Twp. 19S Rng. 35W

**SAMPLER RECOVERY**

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud \_\_\_\_\_ ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure \_\_\_\_\_ ML  
 Total Nothing came out Sampler was plugged ML

**PIT MUD ANALYSIS**

Chlorides 4800 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 46  
 Mud Weight 9.2  
 Filtrate 8.0  
 Other LCM-5 Cake-1

**SAMPLER ANALYSIS**

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity \_\_\_\_\_ corrected @60F

**PIPE RECOVERY**

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51265

Well Name & No. Rees Ranch #2-19 Test No. 2 Date 1/10/13  
 Company SDoco LLC Elevation 391 KB 381 GL  
 Address Po Box 309 Littleton, CO 80160  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 19 Twp. 19S Rge. 35W Co. Wichita State KS

Interval Tested 4524-4538 Zone Tested Marmaton  
 Anchor Length 14' Drill Pipe Run 4140 Mud Wt. 9.1  
 Top Packer Depth 4520 Drill Collars Run 370 Vis 56  
 Bottom Packer Depth 4524 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4538 Chlorides 5600 ppm System LCM 4  
 Blow Description 4 3/4" blow.

Weak surface return died @ 45 min  
BoB @ 57 min.  
Weak surface return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>168</u>	<u>90</u>	<u>50</u>	<u>50</u>		
<u>114</u>	<u>60CM</u>	<u>20</u>	<u>20</u>		<u>60</u>
<u>94</u>	<u>60MCW</u>	<u>5</u>	<u>10</u>	<u>55</u>	<u>30</u>
<u>    </u>	<u>188' GIP</u>				

Rec Total 376 BHT 114 Gravity 30 API RW      @      °F Chlorides      ppm

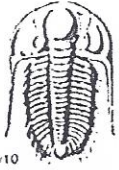
(A) Initial Hydrostatic 2322  Test 1250  
 (B) First Initial Flow 33  Jars       
 (C) First Final Flow 65  Safety Joint       
 (D) Initial Shut-In 1015  Circ Sub N/C  
 (E) Second Initial Flow 88  Hourly Standby       
 (F) Second Final Flow 142  Mileage 52 R/T 80.60  
 (G) Final Shut-In 918  Sampler       
 (H) Final Hydrostatic 2116  Straddle       
 Shale Packer 250  
 Extra Packer       
 Extra Recorder       
 Day Standby       
 Accessibility 150  
 Sub Total 1730.60

T-On Location 13:30  
 T-Started 14:23  
 T-Open 17:01  
 T-Pulled 21:03  
 T-Out 23:32

Comments       
 Ruined Shale Packer       
 Ruined Packer       
 Extra Copies       
 Sub Total 0  
 Total 1730.60  
 MP/DST Disc'l     

Approved By Krus [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.





# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51266

Well Name & No. Rees Ranch #2-19 Test No. 3 Date 1/11/13  
 Company SDCO LLC Elevation 3911 KB 5181 GL  
 Address Po Box 369 Littleton, CO 80160  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 19 Twp. 19S Rge. 35W Co. Wichita State KS

Interval Tested 4583-4615 Zone Tested Kf. Scott  
 Anchor Length 32' Drill Pipe Run 4204 Mud Wt. 9.3  
 Top Packer Depth 4579 Drill Collars Run 370 Vis 48  
 Bottom Packer Depth 4583 Wt. Pipe Run 0 WL 12.0  
 Total Depth 4615 Chlorides 940 ppm System LCM 5

Blow Description HIT A BRIDGE

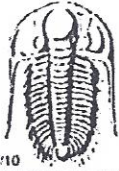
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic  Test 1050 T-On Location 10:45  
 (B) First Initial Flow  Jars \_\_\_\_\_ T-Started 11:09  
 (C) First Final Flow N/A  Safety Joint \_\_\_\_\_ T-Open N/A  
 (D) Initial Shut-In N/A  Circ Sub N/C T-Pulled N/A  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 17:06  
 (F) Second Final Flow \_\_\_\_\_  Mileage 52 R/T 80.60  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer  
 Extra Packer \_\_\_\_\_  Ruined Packer  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1530.60  
 Final Shut-In \_\_\_\_\_  Accessibility 150 MP/DST Disc't  
 Sub Total 1530.60

Approved By [Signature] Our Representative [Signature]

Triobite Testing Inc. shall not be liable for damaged of 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. 51267

Well Name & No. Rees Ranch #2-19 Test No. 4 Date 1/11/13  
 Company SDoco LLC Elevation 3191 KB 3581 GL  
 Address P.O. Box 369 Littleton, CO 80160  
 Co. Rep / Geo. Gary Duke Rig H2 #1  
 Location: Sec. 19 Twp. 19S Rge. 35W Co. Wichita State KS

Interval Tested 4583 - 4615 Zone Tested Ft. Scott  
 Anchor Length 32' Drill Pipe Run 4204 Mud Wt. 9.3  
 Top Packer Depth 4579 Drill Collars Run 370 Vis 48  
 Bottom Packer Depth 4583 Wt. Pipe Run 0 WL 12.0  
 Total Depth 4615 Chlorides 9400 ppm System LCM 5  
 Blow Description Weak surface blow.  
No return.  
No blow.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</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 120 BHT 109 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 248  Test 1250 T-On Location 23:30  
 (B) First Initial Flow 50  Jars — T-Started 23:48  
 (C) First Final Flow 64  Safety Joint — T-Open 2:00  
 (D) Initial Shut-In 1404  Circ Sub N/C T-Pulled 6:04  
 (E) Second Initial Flow 75  Hourly Standby — T-Out 8:07  
 (F) Second Final Flow 84  Mileage 52 R/T X2 161.20 Comments Loaded tubs @ 9:30 am 1/11/13  
 (G) Final Shut-In 1171  Sampler —  
 (H) Final Hydrostatic 2172  Straddle —  Ruined Shale Packer —  
 Shale Packer 250  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Initial Open 30  Extra Recorder — Sub Total 800  
 Initial Shut-In 60  Day Standby 1d 1.5h Total 2611.20  
 Final Flow 60  Accessibility 150 MP/DST Disc't —  
 Final Shut-In 90 Sub Total 1811.20

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



**JAMES C. MUSGROVE**

Petroleum Geologist  
 212 Main Street  
 P.O. Box 215  
 Claflin, KS 67525

Res. Claflin (620) 587-3444

Office (620) 588-4250

SDOCO LLC  
 Rees Ranch #2-19  
 E/2-NW-NW-NE (330' FNL & 2250' FEL)  
 Section 19-19s-35w  
 Wichita County, Kansas  
 Page 1

**5 1/2" Production Casing Set**

**Contractor:** H2 Drilling Co. (Rig #1)  
**Commenced:** January 5, 2013  
**Completed:** January 14, 2013  
**Elevation:** 3192' K.B; 3190' D.F; 3181' G.L.  
**Casing program:** Surface; 8 5/8" @ 307'  
 Production; 5 1/2" @ 5115'  
**Sample:** Samples saved and examined 3800' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 3800 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were four (4) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Weatherford.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Base Anhydrite	2363	+829
Heebner	3972	-780
Toronto	3994	-802
Lansing	4021	-829
Stark Shale	4326	-1134
Base Kansas City	4473	-1281
Marmaton	4508	-1316
Ft Scott	4630	-1438
Cherokee shale	4645	-1453
Johnson Zone	4742	-1550
Morrow Shale	4850	-1658
Mississippian	4953	-1761
Rotary Total Depth	5130	-1938
Log Total Depth	5136	-1944

(All tops and zones corrected to Electric Log measurements).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TORONTO SECTION**

3994-4020' Limestone; tan, buff, gray, fine and medium crystalline, dolomitic, poor visible porosity, slightly chalky, no shows.



**LANSING SECTION**

4621-4030'	Limestone; white, cream, finely crystalline, few fossiliferous, few oolitic, poor visible porosity, no shows.
4030-4040'	Limestone; white, cream, finely oolitic, poor visible porosity, chalky, no shows.
4058-4076'	Limestone; white/cream, finely crystalline, few fossiliferous, poorly developed porosity, trace black stain, no show of free oil and no odor.
4080-4092'	Limestone; white, cream, finely crystalline, oolitic, poorly developed intercrystalline porosity, trace dark brown to black stain, no show of free oil and no odor.
4114-4136'	Limestone; white, cream, finely crystalline, oolitic, few fossiliferous, poor porosity, chalky, no shows.
4146-4161'	Limestone; cream, tan, finely crystalline, oolitic, poorly developed porosity, chalky, few cherty, no shows.
4161-4200'	Limestone; white, cream and light gray, finely crystalline, few oolitic, granular, chalky increasingly cherty, no shows.
4200-4216'	Limestone; light gray, tan, finely crystalline, oolitic, poor visible porosity, no shows.
4240-4250'	Limestone; cream, tan, white, finely crystalline, oolitic, poor visible porosity no shows.
4270-4300'	Limestone; cream, tan, finely crystalline, few oolitic, chalky, no shows.
4306-4316'	Limestone; light gray, tan, cream, finely crystalline, oolitic, oomoldic, poor to fair oomoldic porosity, chalky, (barren).
4332-4340'	Limestone; cream, tan, light gray, oolitic, poor pinpoint porosity, spotty dark brown to black stain, show of free oil (dead) and faint odor in fresh samples.
4350-4360'	Limestone; tan, gray, oolitic, scattered porosity, dark brown to black stain, no show of free oil and no odor.
4360-4370'	Limestone; cream, tan, finely crystalline, poor visible porosity, slightly oolitic, chalky, no shows.
4384-4400'	Limestone; tan, gray, oolitic, scattered poor porosity, cherty, dark brown and black stain, no free oil and no odor.
4400-4410'	Limestone; cream, tan, finely crystalline, slightly oolitic, poor porosity, dark brown stain, no free oil and no odor.
4420-4430'	Limestone; cream, white, gray, slightly oolitic, poor to fair intercrystalline porosity, spotty dark brown stain, no free oil and no odor.

4446-4456' Limestone; cream, tan, white, finely crystalline, chalky, scattered dark brown to black stain, no free oil and no odor.

**MARMATON SECTION**

4508-4516' Limestone; tan, buff, finely crystalline, oolitic, granular, poor to fair intercrystalline type porosity, dark brown stain, no free oil and faint odor in fresh samples.

4518-4525' Limestone; cream, tan, finely crystalline, oolitic, poor to fair porosity, golden brown stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #1** **4490-4525'** (log measurements 4496-4531)

Times: 30-60-60-90

Blow: Strong

Recovery: 940' gas in pipe  
292' gassy oil  
188' oil and gas cut mud  
(20% gas, 20% oil, 60% mud)

Pressures: ISIP 178 psi  
FSIP 213 psi  
IFP 24-125 psi  
FFP 178-??? psi  
HSH 2384-2176 psi

4525-4538' Limestone; cream, tan, finely oolitic, sub oomoldic, scattered porosity, golden brown stain, showoff free oil and faint odor in fresh samples.

**Drill Stem Test #2** **4524-4538'** (log measurements 4530-4544)

Times: 30-60-60-90

Blow: Weak to strong

Recovery: 188' gas in pipe  
168' clean gassy oil  
114' oil and gas cut mud  
(20% gas, 20% oil, 60% mud)  
94' slightly oil and cut muddy water  
(10% oil, 30% mud, 55% water)

Pressures: ISIP 998 psi  
FSIP 1015 psi  
IFP 33-65 psi  
FFP 88-143 psi  
HSH 2322-2196 psi

4550-4560' Limestone; gray, white, finely crystalline, oolitic/fossiliferous, poor visible porosity, chalky, few cherty, dense, no shows.

4570-4590' Limestone; cream, white, finely crystalline, poor porosity, few scattered fine vuggy porosity, black stain, no show of free oil and no odor.

#### PAWNEE SECTION

4608-4621' Limestone; gray, white, finely crystalline, oolitic, poor pinpoint and intercrystalline porosity, golden brown stain, show of free oil and no odor in fresh samples.

#### Drill Stem Test #3 4583-4615' (log measurements 4589-4621)

- Misrun – could not get to bottom

#### Drill Stem Test #4 4583-4615' (log measurements 4589-4621)

Times: 30-60-60-90

Blow: Weak

Recovery: 120' mud

Pressures: ISIP 1404 psi  
FSIP 1170 psi  
IFP 50-64 psi  
FFP 75-84 psi  
HSH 2418-2172 psi

#### FT SCOTT SECTION

4630-4644' Limestone; cream, tan, gray, finely crystalline, chalky, plus white, opaque chert at base.

#### JOHNSON ZONE SECTION

4742-4761' Limestone; tan, gray, finely crystalline, poor porosity, cherty, chalky, dense.

#### MORROW SECTION

4850-4953' Shale; gray, black, slightly sandy, silty, no true sand development.

#### MISSISSIPPIAN SECTION

4953-4970' Limestone; cream, white, sandy, granular, poorly developed porosity (barren).

4970-5000' Limestone; as above, plus tan/white and gray boney chert.

5000-5020' Limestone; and chert as above.

5020-5040' Limestone; white, cream, finely crystalline, chalky, poor porosity.

5040-5060' Limestone; cream, tan, white, finely crystalline, slightly oolitic, poor visible porosity, no shows.



SDOCO LLC  
Rees Ranch #2-19  
E/2-NW-NW-NE (330' FNL & 2250' FEL)  
Section 19-19s-35w  
Wichita County, Kansas  
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5060-5090' Limestone; as above, trace chert.

5090-5136' Limestone; as above, no shows.

**Rotary Total Depth**      **5130**  
**Log Total Depth**        **5136**

**Recommendations:**

5 ½" production casing was set and cemented on the Rees Ranch #2-19

Respectfully submitted;



Kurt Talbott,  
Petroleum Geologist

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

May 01, 2013

J. Robert Tuck  
SDOCO, LLC  
PO BOX 369  
LITTLETON, CO 80160

Re: ACO1  
API 15-203-20203-00-00  
Rees Ranch 2-19  
NE/4 Sec.19-19S-35W  
Wichita 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,  
J. Robert Tuck



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

TICKET NUMBER 39276  
LOCATION Oakley KS  
FOREMAN Fuzz4 Kelly Gable

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																				
1-14-13	7683	Rees Ranch 2-19	19	195	35w	Wichita																				
CUSTOMER SDOCA LLC			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>399</td> <td>Damon M</td> <td></td> <td></td> </tr> <tr> <td>460</td> <td>Jerry K</td> <td></td> <td></td> </tr> <tr> <td>530</td> <td>Jordan h</td> <td></td> <td></td> </tr> <tr> <td>528</td> <td>Chris B</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	399	Damon M			460	Jerry K			530	Jordan h			528	Chris B		
TRUCK #	DRIVER	TRUCK #					DRIVER																			
399	Damon M																									
460	Jerry K																									
530	Jordan h																									
528	Chris B																									
MAILING ADDRESS PO Box 369 303-979-4029																										
CITY STATE ZIP CODE Littleton Col 80160																										
MATERIALS 65 win																										

JOB TYPE 2-stage HOLE SIZE 7 7/8 HOLE DEPTH 5130' CASING SIZE & WEIGHT 5"2 15.5  
CASING DEPTH 5114 82 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DU Tool @ 2700 25  
SLURRY WEIGHT 14.2-12.5 SLURRY VOL 1.42 + 1.8 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20 26  
DISPLACEMENT 121.2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on H2 #1 Flood equip - Cont 1, 2, 3, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28 Basket Bot #57 DU Tool Top #57. Rig up and circulate 1 1/2 hrs Rig broke down - circulate 5 1/2 hrs. Pumps B&L washer, 500gal mud flush, 5 B&L water mix 400skts OWC w 5\* Kol-seal, wash pump and lines Drop plug and displace 60 B&L water 60 3/4 B&L mud 1700\* 1st land plug @ 2100\*. Drop DU - Dart spurt 15 min open Tool @ 800\* circ 4 hrs. Pump 5 B&L water, mix 20skts MN, 30skts RN, mix 500skts 60/40 89gal 1/4\* Flo-seal. Wash pump and lines Drop plug and displace 64 B&L water 750\* 1st close DU Tool @ 1700\* cement did circulate approx 50 B&L top. Cement also circulated above DU Tool on Bottom stage Thanks Fuzz4 crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020 <sup>00</sup>	3020 <sup>00</sup>
5406	45	MILEAGE	5 <sup>00</sup>	225 <sup>00</sup>
5407A	42.5 ton	Ton mileage delivery	167	3194 <sup>70</sup>
1126	400skts	OWC	22 <sup>52</sup>	9020 <sup>00</sup>
1110A	2000*	Kol-seal	1.56	1120 <sup>00</sup>
1131	550skts	60/40 pos	15 <sup>10</sup>	8305 <sup>00</sup>
1118B	3784*	Bentonite	1.25	946 <sup>00</sup>
1107	138*	Flo-seal	2 <sup>82</sup>	389 <sup>16</sup>
1144G	500 gal	Mud Flush	1 <sup>00</sup>	500 <sup>00</sup>
4159	1	5"2. A70 Flood shoe (w)	413 <sup>00</sup>	413 <sup>00</sup>
4454	1	5"2. Latchdown Assy	567 <sup>00</sup>	567 <sup>00</sup>
4104	1	5"2. Basket	276 <sup>00</sup>	276 <sup>00</sup>
4277	1	5"2. DU Tool (w)	4800 <sup>00</sup>	4800 <sup>00</sup>
4130	20	5"2. controlizers (w)	58 <sup>00</sup>	1160 <sup>00</sup>
		subtotal		33935 <sup>86</sup>
		less 1590		5090 <sup>38</sup>
		subtotal		28845 <sup>48</sup>
1111	200*	Salt	N/C	
		SALES TAX		1939 <sup>86</sup>
		ESTIMATED TOTAL		30785 <sup>34</sup>

AUTHORIZATION [Signature] TITLE Comman DATE 1/15/13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

255934