

DRILL STEM TEST REPORT



Sdco, LLC
 P.O. Box 369
 Littleton, CO 80160

19-19s-35w-Wichita CO KS
 Rees Ranch #12-19
 Job Ticket: 56520
 DST#: 1
 Test Start: 2014.04.20 @ 18:46:00
 ATTN: Gary

GENERAL INFORMATION:

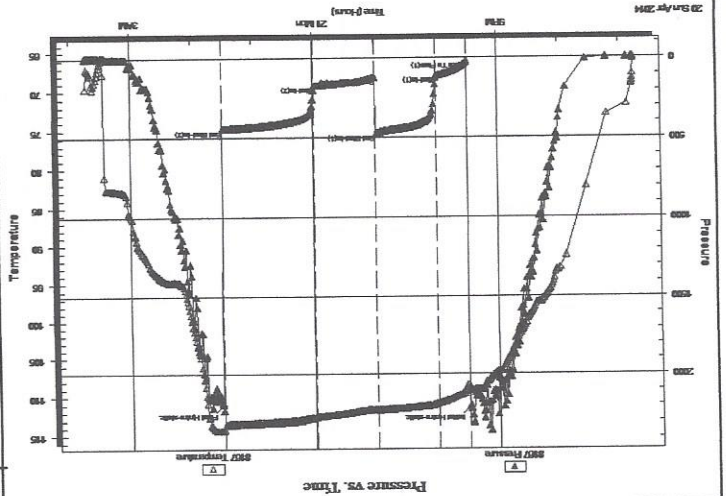
Formation: Marmaton
 Deviated: No
 Whipstock: No
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cornelio Landa III
 Unit No: 71
 Reference Elevations: 3158.00 ft (KB) 3147.00 ft (CF) 11.00 ft
 Interval: 4416.00 ft (KB) To 4473.00 ft (KB) (TVD)
 Total Depth: 4473.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Good

Serial #: 8167
 Inside
 Press@RunDepth: 175.88 psig @ 4421.00 ft (KB)
 Start Date: 2014.04.20
 End Date: 2014.04.21
 Capacity: 8000.00 psig
 Last Calib.: 2014.04.21
 Time On Btm: 2014.04.20 @ 21:29:15
 Time Off Btm: 2014.04.21 @ 01:31:30

TEST COMMENT: IF: B.o.b. in 16 1/2 min.
 IS: Bled off in 2 min - Surface blow back-Built to 3 1/2 in. of Blow back
 FF: 4 in. Immediately-Built to B.o.b. in 12 min.
 FS: Bled off in 2 min -Surface blow back-Built to B.o.b. in 45 min.Died back to 8 1/2 in.

PRESSURE SUMMARY

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	109.18	2209.34	0
Open To Flow (1)	108.62	19.81	1
Shut-In(1)	110.82	114.01	31
End Shut-In(1)	111.74	473.96	90
Open To Flow (2)	111.63	122.55	91
Shut-In(2)	112.60	175.88	150
End Shut-In(2)	113.54	443.62	241
Final Hydro-static	114.31	2195.44	243



Recovery

Length (ft)	Description	Volume (bbl)
184.00	G & Ocm 30g 300 40m	0.90
247.00	Cgo 30g 700	1.79
0.00	GIP=126	0.00
0.00	Weak GIP=378	0.00
0.00	Gravity=32	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

FLUID SUMMARY

DRILL STEM TEST REPORT



Sdcco, LLC
 P.O. Box 369
 Littleton, CO 80160
 ATTN: Gary
 Rees Ranch #12-19
 Job Ticket: 56520
 DST#:1
 Test Start: 2014.04.20 @ 18:46:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 54.00 sec/qt
 Water Loss: 7.97 in³
 Resistivity: 0.00 ohm.m
 Salinity: 6500.00 ppm
 Filter Cake: 1.00 inches
 Cushion Type:
 Cushion Length:
 Cushion Volume:
 Gas Cushion Type:
 Gas Cushion Pressure:
 Oil API: 32 deg API
 Water Salinity: ppm
 ft
 bbl
 psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
184.00	G & Ocm 30g 300 40m	0.905
247.00	Cgo 30g 700	1.789
0.00	GIP=126	0.000
0.00	Weak GIP=378	0.000
0.00	Gravity=32	0.000

Total Length: 431.00 ft Total Volume: 2.694 bbl

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

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

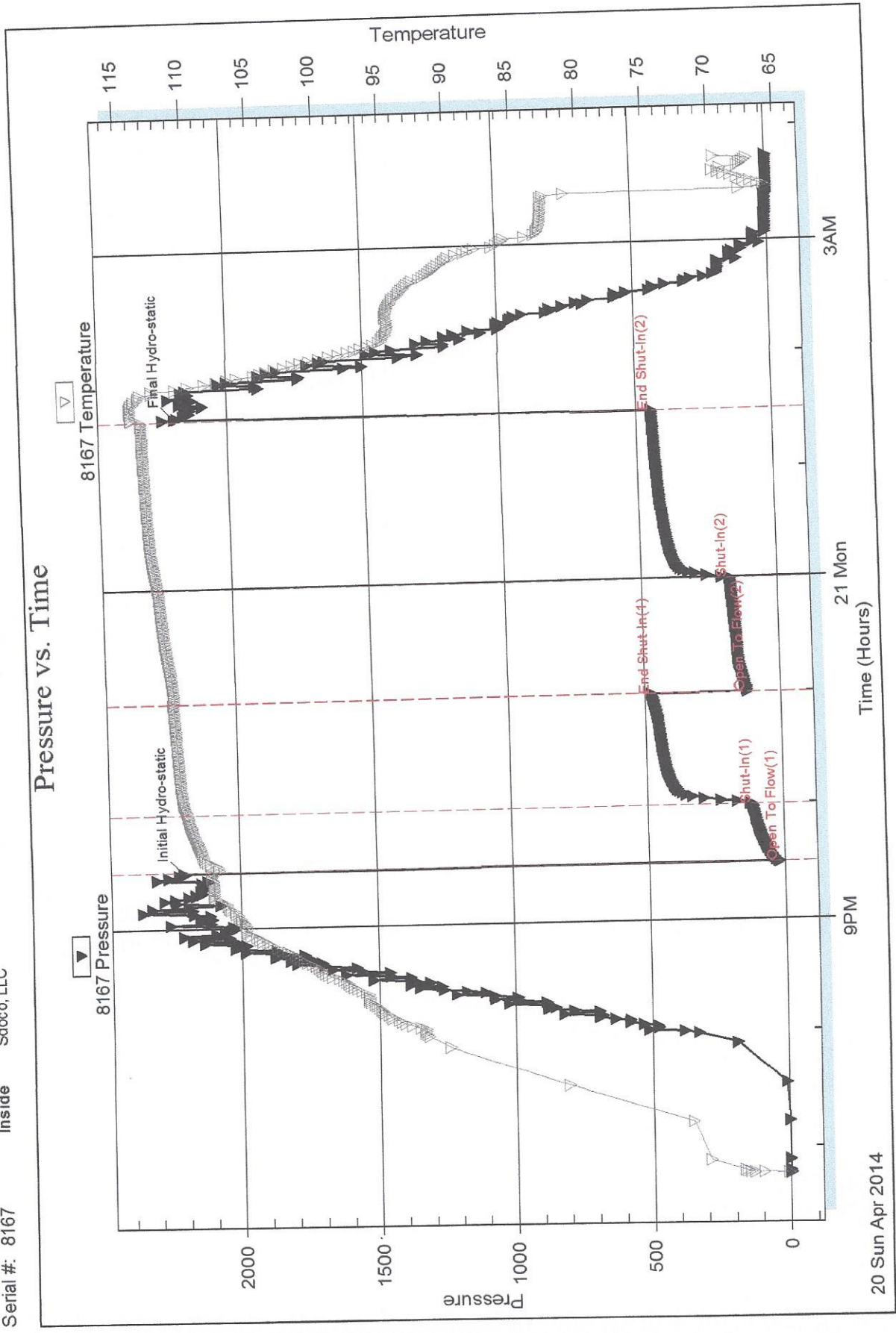
Rees Ranch #12-19

Sdoco, LLC

Inside

Serial #: 8167

Pressure vs. Time



Printed: 2014.04.22 @ 06:51:21

Ref. No: 56520

Triobite Testing, Inc

DRILL STEM TEST REPORT



Sdco, LLC
 P.O. Box 369
 Littleton, CO 80160

19-19s-35w-Wichita CO KS
 Rees Ranch #12-19
 Job Ticket: 57057
 DST#:2
 ATTN: Gary
 Test Start: 2014.04.21 @ 22:02:00

GENERAL INFORMATION:

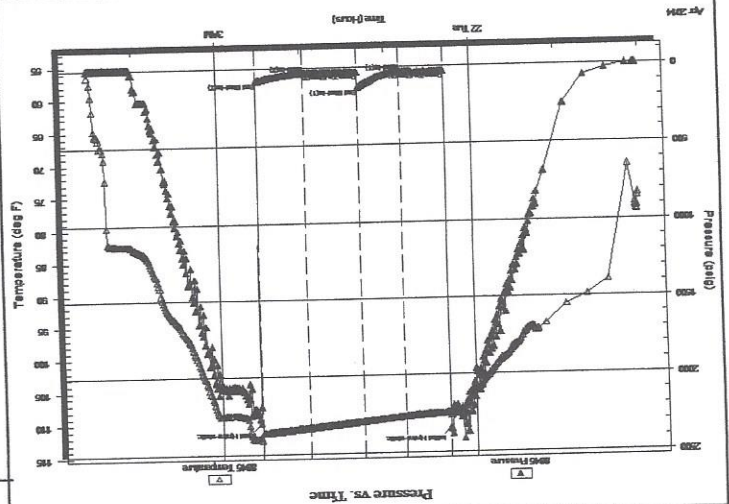
Formation: F. Scott
 Deviated: No
 Whipstock: No
 Time Tool Opened: 00:18:30
 Time Test Ended: 04:32:15
 Interval: 4530.00 ft (KB) To 4590.00 ft (KB) (TVD)
 Total Depth: 4590.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Good
 Reference Elevations: 3158.00 ft (KB)
 3147.00 ft (CF)
 11.00 ft
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71

Serial #: 8845
 Inside
 Press@RunDepth: 34.34 psig @
 4538.00 ft (KB)
 End Date: 2014.04.21
 End Time: 22:02:05
 Start Date: 2014.04.22 @ 00:18:15
 Start Time: 04:32:14
 Capacity: 8000.00 psig
 Last Call: 2014.04.22
 Time On Btm: 2014.04.22 @ 00:18:15
 Time Off Btm: 2014.04.22 @ 02:33:15

TEST COMMENT: IF: Weak Surface Blow died @ 10 min.
 IS: No Return.
 FF: No Blow.
 FS: No Return.

PRESSURE SUMMARY

Annotation	Pressure (psig)	Temp (deg F)	Time (Min.)
Initial Hydro-static	2340.34	109.05	0
Open To Flow (1)	31.64	108.33	1
Shut-in(1)	31.74	109.14	32
End Shut-in(1)	131.18	109.85	62
Open To Flow (2)	33.25	109.83	62
Shut-in(2)	34.34	110.73	100
End Shut-in(2)	82.81	111.45	134
Final Hydro-static	2299.81	112.14	135



Recovery

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

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 57057

Printed: 2014.04.22 @ 06:43:50

FLUID SUMMARY

DRILL STEM TEST REPORT



TRILOBITE TESTING, INC.

Sdoco, LLC
 P.O. Box 369
 Littleton, CO 80160
 ATTN: Gary
 Rees Ranch #12-19
 Job Ticket: 57057 DST#: 2
 Test Start: 2014.04.21 @ 22:02:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 60.00 sec/qt
 Water Loss: 8.79 in³
 Resistivity: 0.00 ohm.m
 Salinity: 7500.00 ppm
 Filter Cake: 1.00 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
5.00	Mud 100m (Oil Spots)	0.025
Total Length:		5.00 ft
Total Volume:		0.025 bbl

Num Fluid Samples: 0
 Laboratory Name:
 Recovery Comments:
 Num Gas Bombs: 0
 Laboratory Location:
 Serial #:

DST Test Number: 2

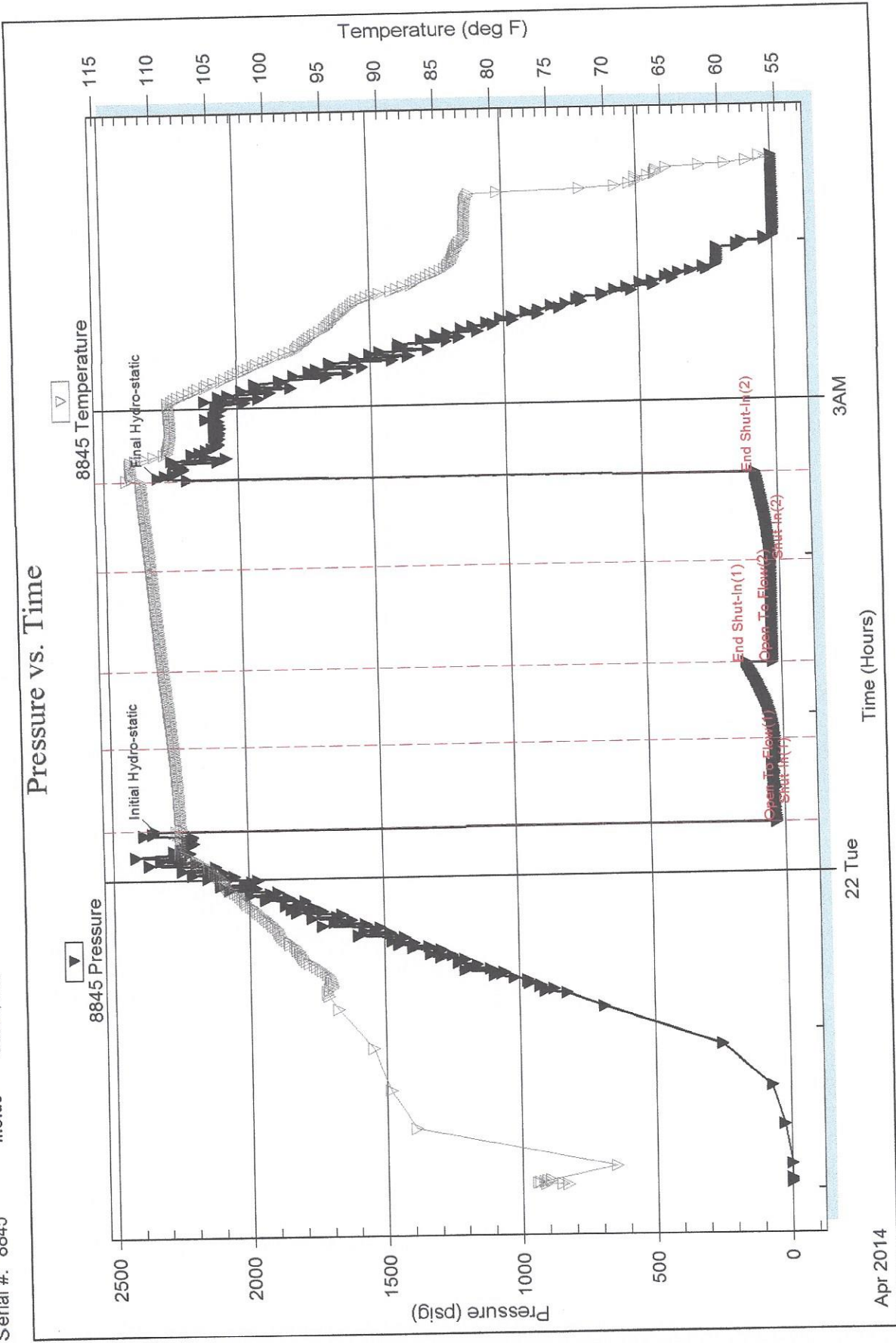
Rees Ranch #12-19

Inside Sdoco, LLC

Inside

Serial #: 8845

Pressure vs. Time



Printed: 2014.04.22 @ 06:43:51

Ref. No: 57057

Trilobite Testing, Inc