



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co.

3 16s 55w Lincoln, Co

24900 Pitkin Rd #305
The Woodlands, Tx 77386

Sorenson 4-3

Job Ticket: 63477

DST#: 2

ATTN: Randy Sae

Test Start: 2017.11.09 @ 15:10:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:32:30

Time Test Ended: 03:51:30

Interval: **7440.00 ft (KB) To 7484.00 ft (KB) (TVD)**

Total Depth: 7550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 5048.00 ft (KB)

5030.00 ft (CF)

KB to GR/CF: 18.00 ft

Serial #: **8845**

Inside

Press@RunDepth: 976.06 psig @ 7441.00 ft (KB)

Start Date: 2017.11.09

End Date:

2017.11.10

Capacity: 8000.00 psig

Last Calib.: 2017.11.10

Start Time: 15:10:00

End Time:

03:51:30

Time On Btm: 2017.11.09 @ 21:32:15

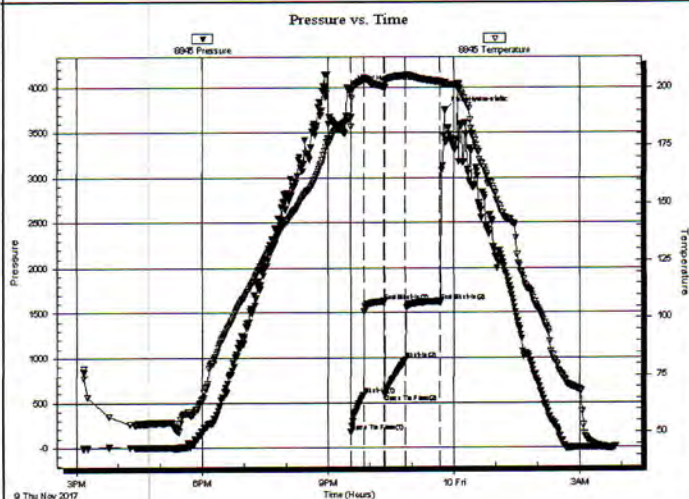
Time Off Btm: 2017.11.09 @ 23:47:15

TEST COMMENT: IF: BOB @ 6 min.

IS: No return.

FF: BOB @ 6 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3969.58	187.16	Initial Hydro-static
1	168.37	182.98	Open To Flow (1)
19	584.77	203.35	Shut-In(1)
48	1628.69	200.42	End Shut-In(1)
49	586.94	199.70	Open To Flow (2)
78	976.06	205.20	Shut-In(2)
128	1628.84	202.51	End Shut-In(2)
135	3742.74	201.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2200.00	mcw 2m 98w	197990.13

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DST Test Number: 2

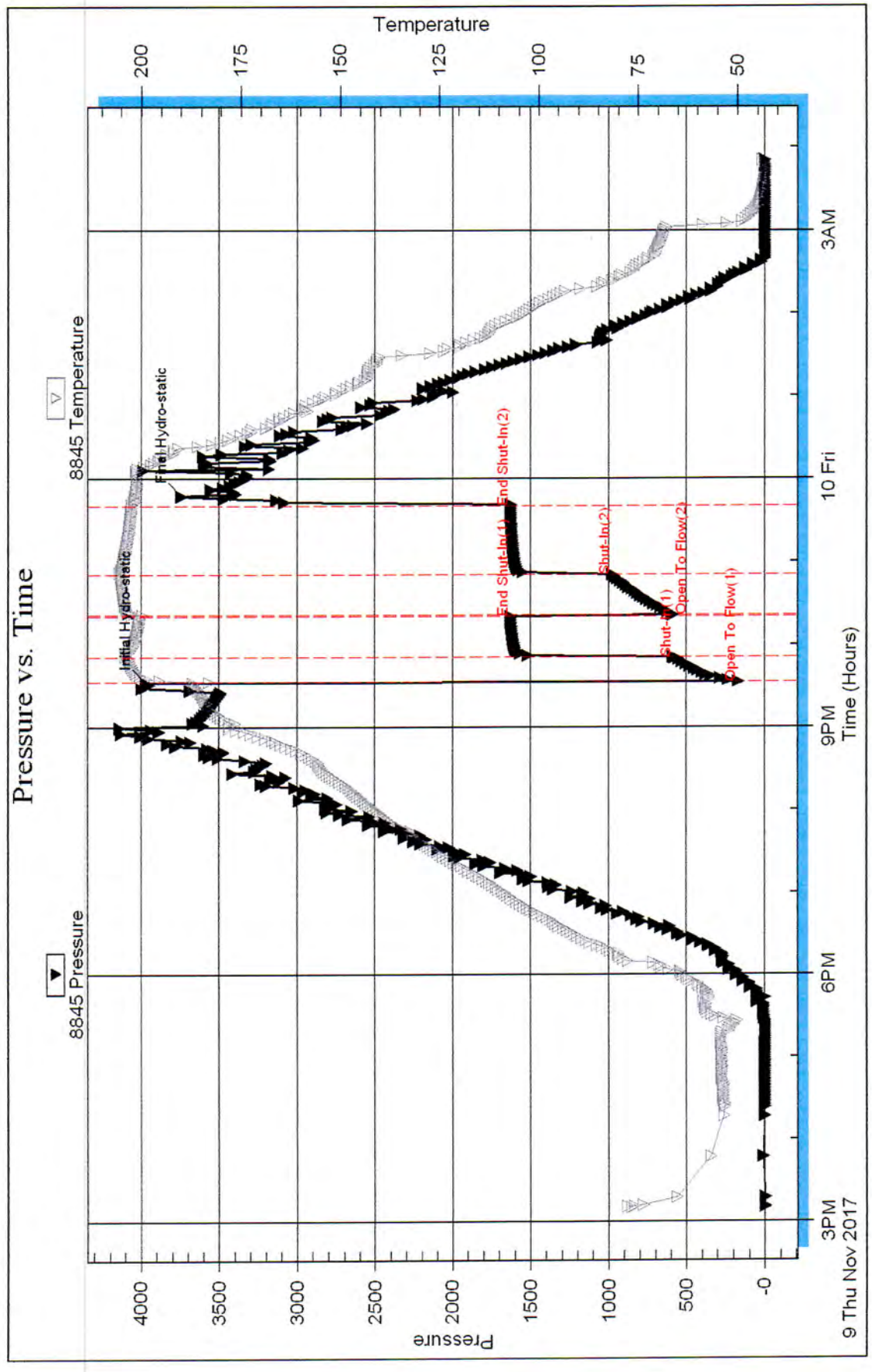
Sorenson 4-3

K3 Oil & Gas Operating Co.

Inside

Serial #: 8845

Pressure vs. Time



Printed: 2017.11.10 @ 04:10:42

Ref. No: 63477

Trilobite Testing, Inc



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 64377 Date 10/10/2017
Company Name K3 Oil & Gas Operating Co
Lease Sorenson #4-3 Test No. 2
County Lincoln 3 Sec. 16S Twp. 16S Rng. 35W

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud — ML
Water 3000 ML
Other — ML
Pressure 190 ML
Total 3,000 ML

PIT MUD ANALYSIS

Chlorides 700 ppm.
Resistivity — ohms @ — F
Viscosity 66
Mud Weight 9.2
Filtrate 6.4
Other 5th 2004

SAMPLER ANALYSIS

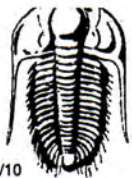
Resistivity 621 ohms @ 57 F
Chlorides 12,500 ppm.
Gravity — corrected @60F

PIPE RECOVERY

TOP
Resistivity 621 ohms @ 57 F
Chlorides 12500 ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity 621 ohms @ 57 F
Chlorides 12500 ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64377

Well Name & No. Sorenson #4-3 Test No. 2 Date 11/10/2017
 Company K3 Oil & Gas Operating Co Elevation 5048 KB 5030 GL
 Address 24900 Pitkin Rd #305 The Woodlands, Tx 77386
 Co. Rep / Geo. Randy Sae Rig WW #20
 Location: Sec. 3 Twp. 16s Rge. 55w Co. Lincoln State Co

Interval Tested 7440 - 7484 Zone Tested Spergen
 Anchor Length 44' / 66' total Drill Pipe Run 6826 Mud Wt. 9.2
 Top Packer Depth 7435 Drill Collars Run 610 Vis 66
 Bottom Packer Depth 7440 / 7484 strat Wt. Pipe Run 0 WL 6.4
 Total Depth 7550 Chlorides 700 ppm System LCM 5#

Blow Description IF BOB @ 6 min.
ISI No return
FF BOB @ 6 min.
FEI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2200</u>	<u>new</u>		<u>98</u>	<u>2</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 2200 BHT 203 Gravity — API RW 621 @ 57 °F Chlorides 12500 ppm

(A) Initial Hydrostatic	<u>3970</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>430</u>
(B) First Initial Flow	<u>168</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>1510</u>
(C) First Final Flow	<u>585</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>2133</u>
(D) Initial Shut-In	<u>1629</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2335</u>
(E) Second Initial Flow	<u>587</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2 hrs</u>	T-Out <u>0350</u>
(F) Second Final Flow	<u>976</u>	<input checked="" type="checkbox"/> Mileage <u>371 Rt</u>	Comments <u>changed from Bottom to Strat test</u>
(G) Final Shut-In	<u>1629</u>	<input checked="" type="checkbox"/> Sampler	
(H) Final Hydrostatic	<u>3743</u>	<input checked="" type="checkbox"/> Straddle	

Initial Open	<u>15</u>	<input checked="" type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>45</u>	<input type="checkbox"/> Day Standby	Sub Total
		<input checked="" type="checkbox"/> Accessibility	Total
		Sub Total	MP/DST Disc't

Approved By _____

Our Representative _____

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