



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

PO Box 783188
Wichita, KS 67278

ATTN: Bob Petersen

13-10-14W Osborne,KS

Schneider Trust 13 B #1

Start Date: 2019.04.07 @ 02:17:36

End Date: 2019.04.07 @ 10:40:27

Job Ticket #: 65678 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.12 @ 11:48:40

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

13-10-14W Osborne,KS

DST # 1

LKC "A"

2019.04.07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

PO Box 783188
Wichita, KS 67278

ATTN: Bob Petersen

Schneider Trust 13 B #1

13-10-14W Osborne, KS

Job Ticket: 65678

DST#: 1

Test Start: 2019.04.07 @ 02:17:36

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:34:12

Time Test Ended: 10:40:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3246.00 ft (KB) To 3278.00 ft (KB) (TVD)

Reference Elevations: 2015.00 ft (KB)

Total Depth: 3278.00 ft (KB) (TVD)

2007.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: 43.29 psig @ 3247.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.07 End Date: 2019.04.07

Last Calib.: 2019.04.07

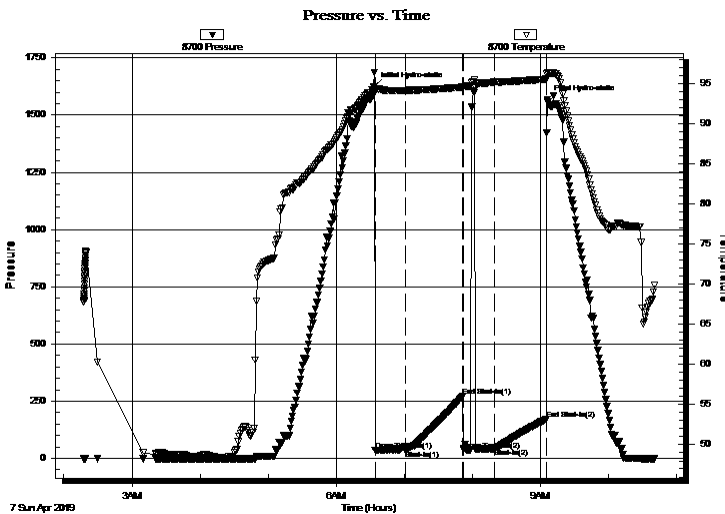
Start Time: 02:17:37 End Time: 10:40:27

Time On Btm: 2019.04.07 @ 06:33:12

Time Off Btm: 2019.04.07 @ 09:06:12

TEST COMMENT: 30- IF- Tool slid 10'. Bled off 2" blow . No blow
45- IS- No blow
30- FF- No blow . Flushed tool. Did surge. No blow
45- FSI- No blow

PRESSURE SUMMARY



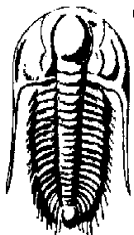
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.21	93.97	Initial Hydro-static
1	35.23	94.18	Open To Flow (1)
28	35.61	94.12	Shut-In(1)
78	271.68	94.53	End Shut-In(1)
79	37.32	94.58	Open To Flow (2)
107	43.29	95.19	Shut-In(2)
152	172.53	95.52	End Shut-In(2)
153	1566.77	96.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

PO Box 783188
Wichita, KS 67278

ATTN: Bob Petersen

Schneider Trust 13 B #1

13-10-14W Osborne, KS

Job Ticket: 65678 **DST#: 1**

Test Start: 2019.04.07 @ 02:17:36

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:34:12

Time Test Ended: 10:40:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3246.00 ft (KB) To 3278.00 ft (KB) (TVD)

Total Depth: 3278.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2015.00 ft (KB)

2007.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: psig @ 3247.00 ft (KB)

Start Date: 2019.04.07 End Date: 2019.04.07

Start Time: 02:17:13 End Time: 10:39:48

Capacity: 8000.00 psig

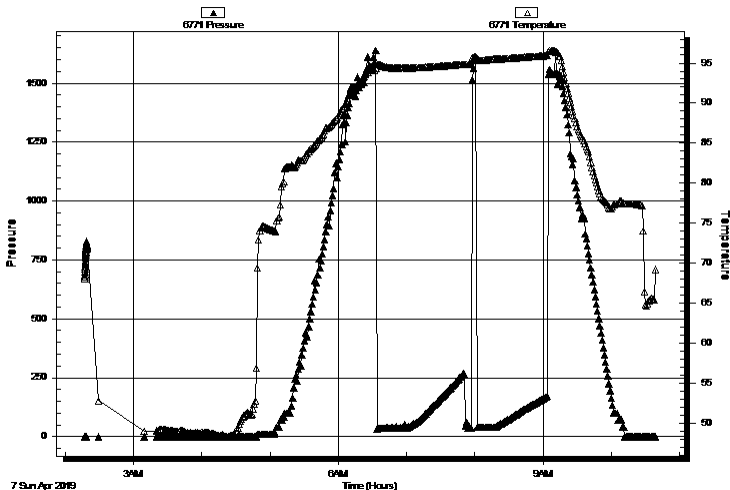
Last Calib.: 2019.04.07

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Tool slid 10'. Bled off 2" blow . No blow
45- IS- No blow
30- FF- No blow . Flushed tool. Did surge. No blow
45- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne, KS

ATTN: Bob Petersen

Job Ticket: 65678

DST#: 1

Test Start: 2019.04.07 @ 02:17:36

Tool Information

Drill Pipe:	Length: 3045.00 ft	Diameter: 3.82 inches	Volume: 43.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3246.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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			3219.00	
Shut In Tool	5.00			3224.00	
Hydraulic tool	5.00			3229.00	
Jars	5.00			3234.00	
Safety Joint	3.00			3237.00	
Packer	5.00			3242.00	28.00 Bottom Of Top Packer
Packer	4.00			3246.00	
Stubb	1.00			3247.00	
Recorder	0.00	6771	Inside	3247.00	
Recorder	0.00	8700	Outside	3247.00	
Perforations	28.00			3275.00	
Bullnose	3.00			3278.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne,KS

Job Ticket: 65678 **DST#: 1**

ATTN: Bob Petersen

Test Start: 2019.04.07 @ 02:17:36

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

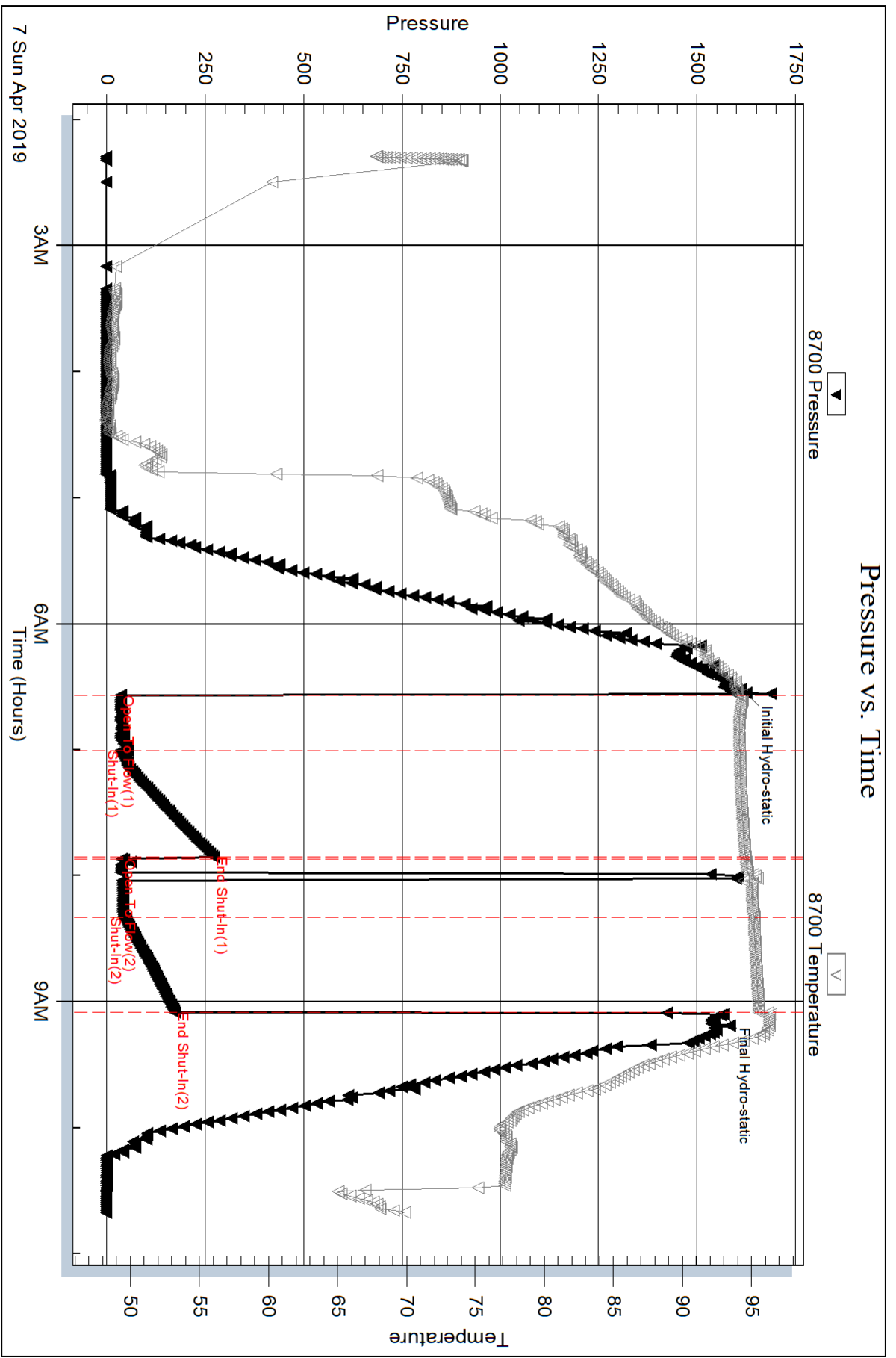
Num Fluid Samples: 0

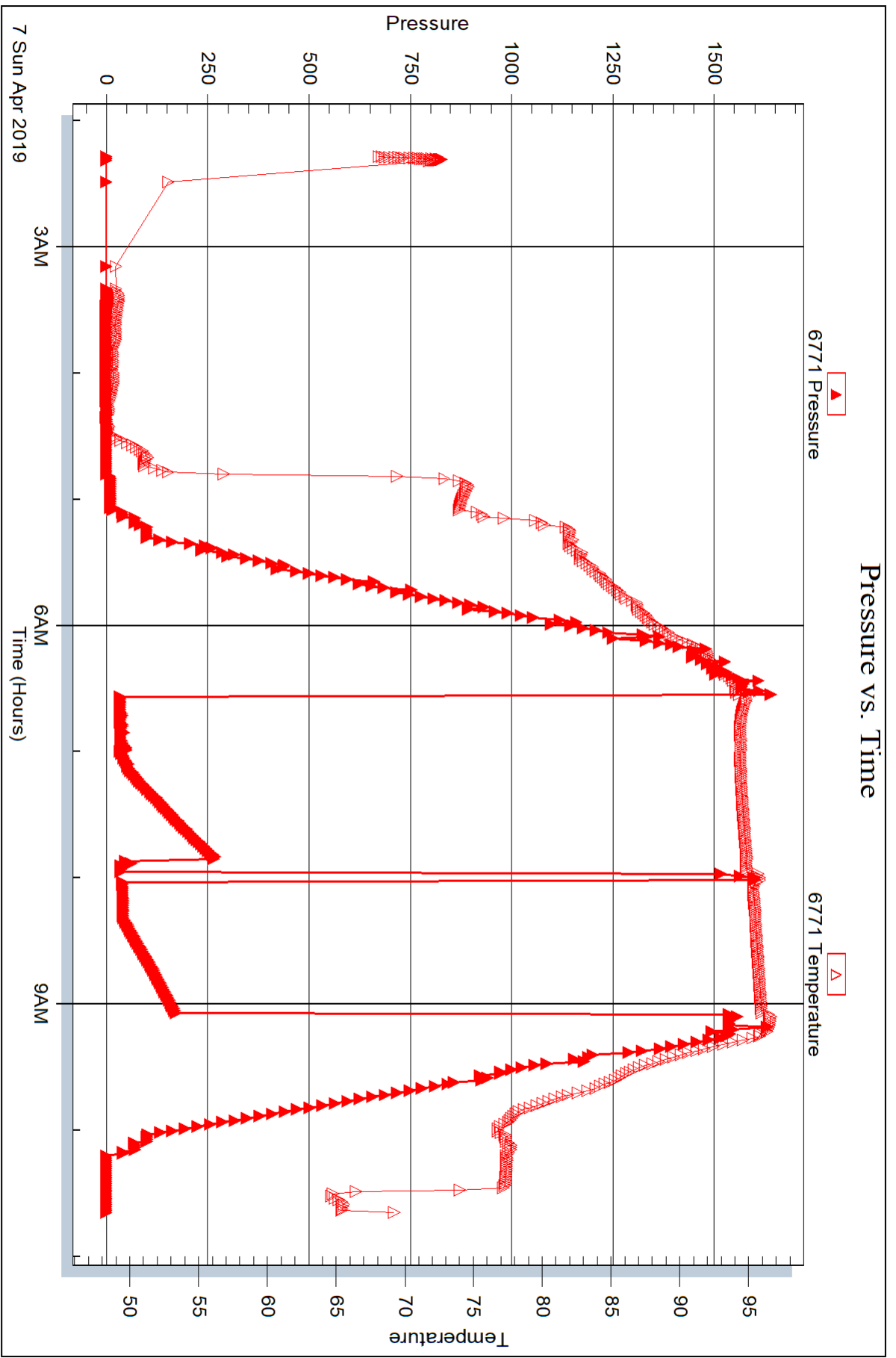
Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

PO Box 783188
Wichita, KS 67278

ATTN: Bob Petersen

13-10-14W Osborne,KS

Schneider Trust 13 B #1

Start Date: 2019.04.07 @ 17:15:40

End Date: 2019.04.08 @ 00:23:01

Job Ticket #: 65679 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.12 @ 11:48:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne, KS

ATTN: Bob Petersen

Job Ticket: 65679

DST#: 2

Test Start: 2019.04.07 @ 17:15:40

GENERAL INFORMATION:

Formation: **LKC "B - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:16

Time Test Ended: 00:23:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3276.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 2015.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

2007.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: 51.15 psig @ 3277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.07

End Date:

2019.04.08

Last Calib.:

2019.04.08

Start Time:

17:15:41

End Time:

00:23:01

Time On Btm:

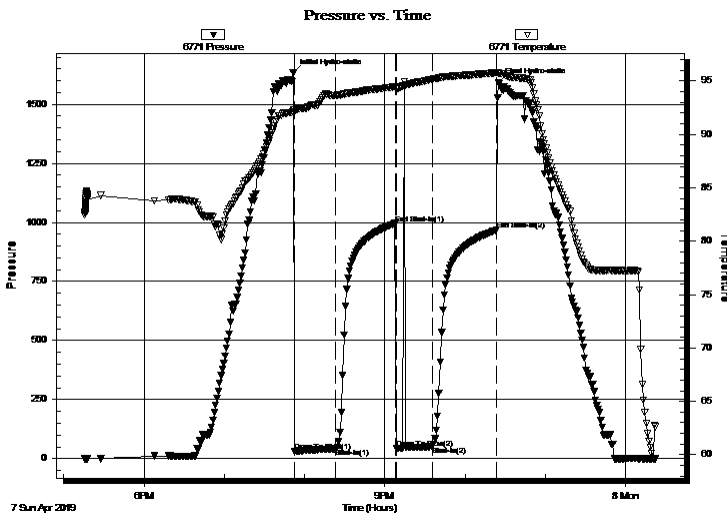
2019.04.07 @ 19:51:46

Time Off Btm:

2019.04.07 @ 22:25:01

TEST COMMENT: 30- IF- Intermittent surface blow
45- IS- No blow
30- FF- No blow . Flushed tool. Did surge. No blow
45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.04	92.33	Initial Hydro-static
1	29.79	92.08	Open To Flow (1)
31	41.64	93.64	Shut-In(1)
76	995.43	94.48	End Shut-In(1)
77	44.78	94.26	Open To Flow (2)
104	51.15	95.17	Shut-In(2)
152	967.17	95.77	End Shut-In(2)
154	1591.43	95.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne, KS

ATTN: Bob Petersen

Job Ticket: 65679

DST#: 2

Test Start: 2019.04.07 @ 17:15:40

Tool Information

Drill Pipe:	Length: 3077.00 ft	Diameter: 3.82 inches	Volume: 43.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3276.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			3249.00	
Shut In Tool	5.00			3254.00	
Hydraulic tool	5.00			3259.00	
Jars	5.00			3264.00	
Safety Joint	3.00			3267.00	
Packer	5.00			3272.00	28.00 Bottom Of Top Packer
Packer	4.00			3276.00	
Stubb	1.00			3277.00	
Recorder	0.00	6771	Inside	3277.00	
Recorder	0.00	8700	Outside	3277.00	
Perforations	30.00			3307.00	
Bullnose	3.00			3310.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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FLUID SUMMARY

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne,KS

Job Ticket: 65679

DST#: 2

ATTN: Bob Petersen

Test Start: 2019.04.07 @ 17:15:40

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	M	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

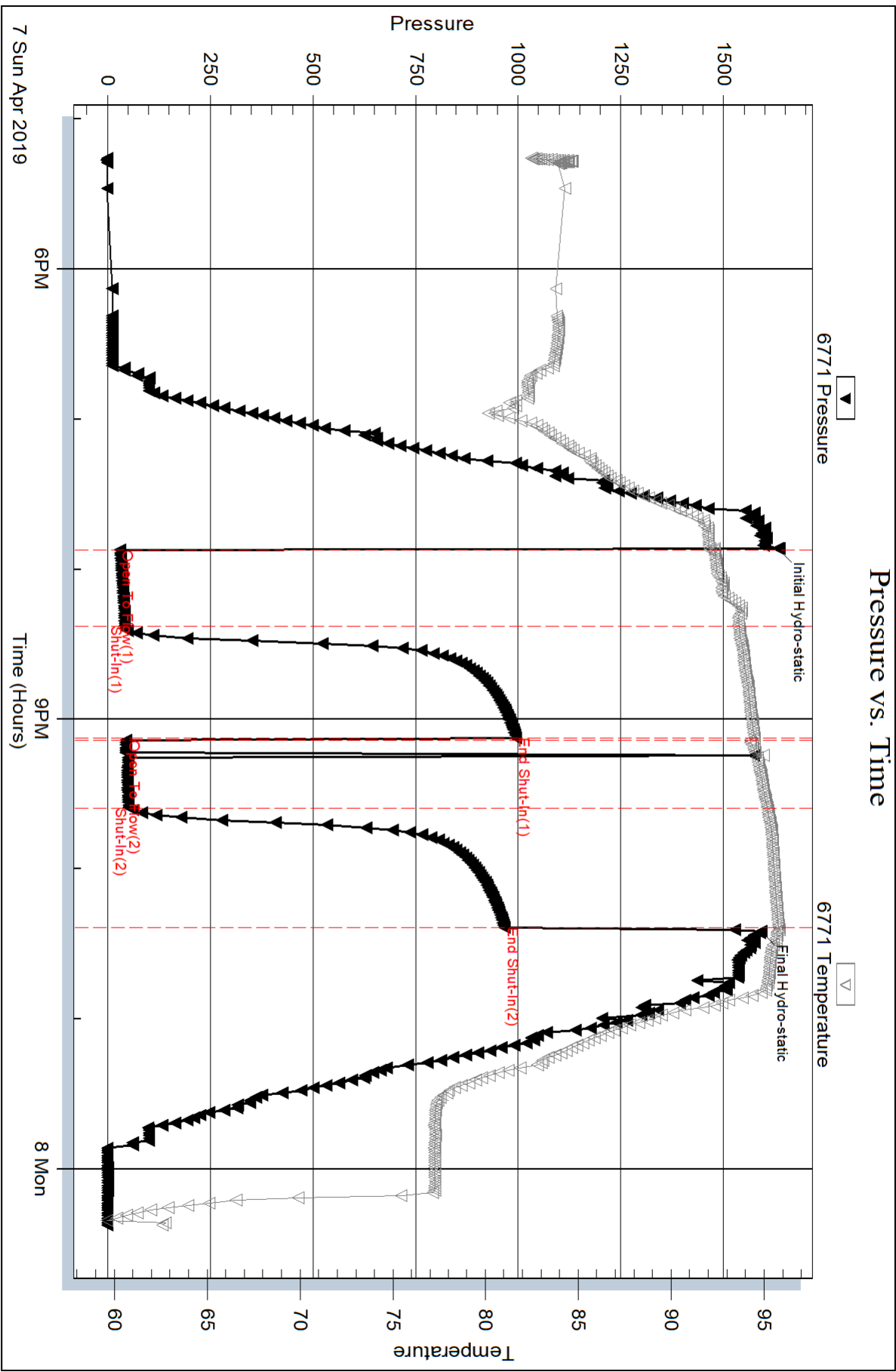
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

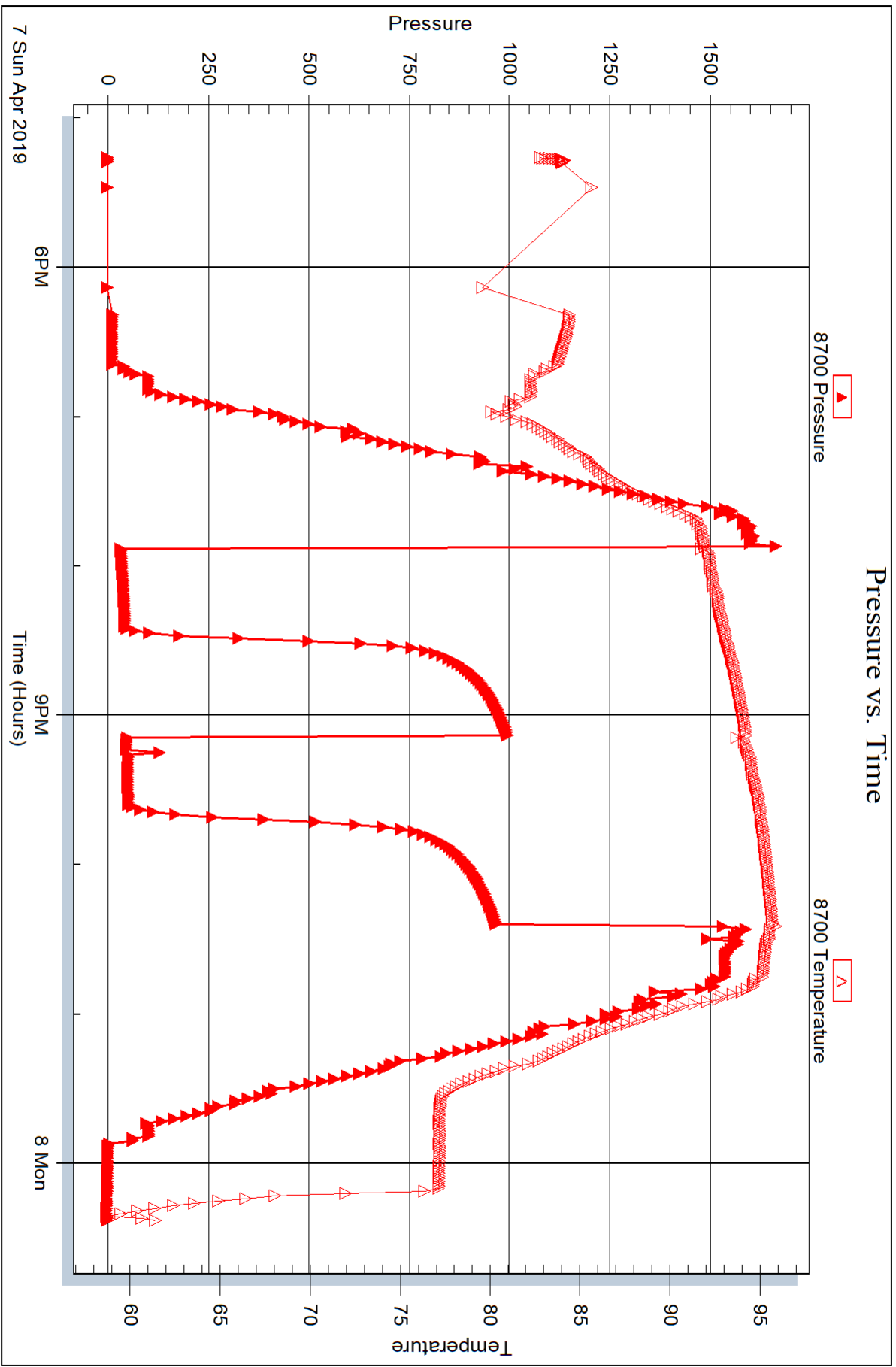


Serial #: 8700

Outside Ritchie Exploration, Inc.

13-10-14W Osborne, KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

PO Box 783188
Wichita, KS 67278

ATTN: Bob Petersen

13-10-14W Osborne,KS

Schneider Trust 13 B #1

Start Date: 2019.04.08 @ 06:10:26

End Date: 2019.04.08 @ 12:32:17

Job Ticket #: 65680 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.04.12 @ 11:47:32

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

13-10-14W Osborne,KS

DST # 3

LKC "D"

2019.04.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne, KS

ATTN: Bob Petersen

Job Ticket: 65680

DST#: 3

Test Start: 2019.04.08 @ 06:10:26

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:29:17
 Tester: Brannan Lonsdale
 Time Test Ended: 12:32:17
 Unit No: 73
 Interval: **3307.00 ft (KB) To 3325.00 ft (KB) (TVD)**
 Reference Elevations: 2015.00 ft (KB)
 Total Depth: 3325.00 ft (KB) (TVD)
 2007.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

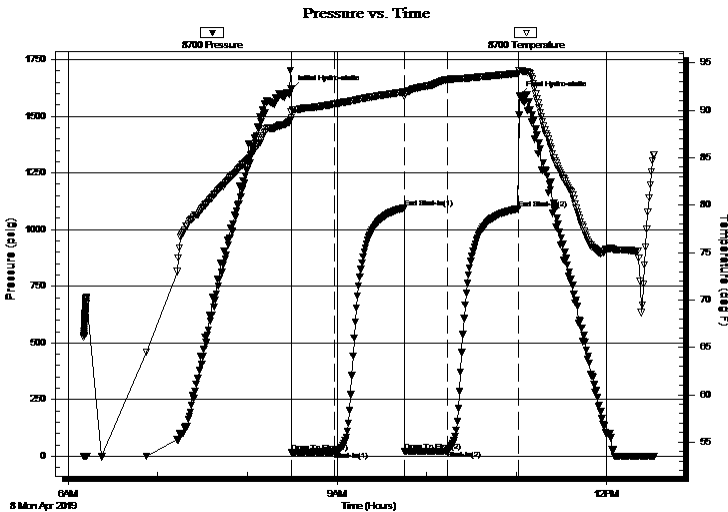
Serial #: 8700

Outside

Press@RunDepth: 24.47 psig @ 3308.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.08 End Date: 2019.04.08 Last Calib.: 2019.04.08
 Start Time: 06:10:27 End Time: 12:32:17 Time On Btm: 2019.04.08 @ 08:29:02
 Time Off Btm: 2019.04.08 @ 11:02:02

TEST COMMENT: 30- IF- Surface blow died 6 mins
 45- IS- No blow
 30- FF- No blow
 45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.38	89.82	Initial Hydro-static
1	17.48	89.27	Open To Flow (1)
30	19.88	90.68	Shut-In(1)
76	1095.53	91.95	End Shut-In(1)
76	21.89	91.45	Open To Flow (2)
105	24.47	93.24	Shut-In(2)
152	1092.05	93.92	End Shut-In(2)
153	1589.97	94.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne, KS

ATTN: Bob Petersen

Job Ticket: 65680

DST#: 3

Test Start: 2019.04.08 @ 06:10:26

Tool Information

Drill Pipe:	Length: 3108.00 ft	Diameter: 3.82 inches	Volume: 44.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3307.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			3280.00	
Shut In Tool	5.00			3285.00	
Hydraulic tool	5.00			3290.00	
Jars	5.00			3295.00	
Safety Joint	3.00			3298.00	
Packer	5.00			3303.00	28.00 Bottom Of Top Packer
Packer	4.00			3307.00	
Stubb	1.00			3308.00	
Recorder	0.00	6771	Inside	3308.00	
Recorder	0.00	8700	Outside	3308.00	
Perforations	14.00			3322.00	
Bullnose	3.00			3325.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

Schneider Trust 13 B #1

PO Box 783188
Wichita, KS 67278

13-10-14W Osborne,KS

Job Ticket: 65680

DST#: 3

ATTN: Bob Petersen

Test Start: 2019.04.08 @ 06:10:26

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

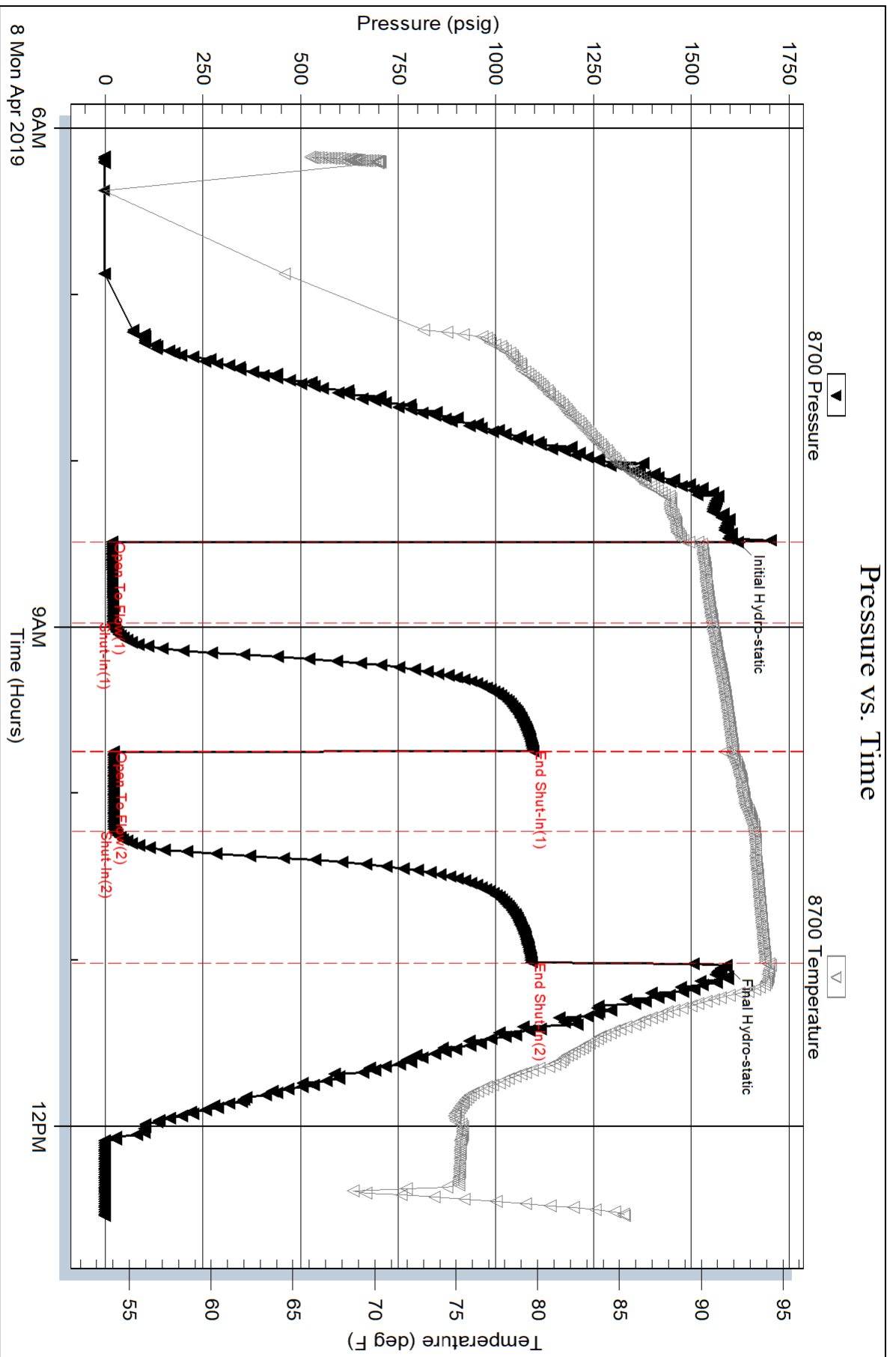
Num Gas Bombs: 0

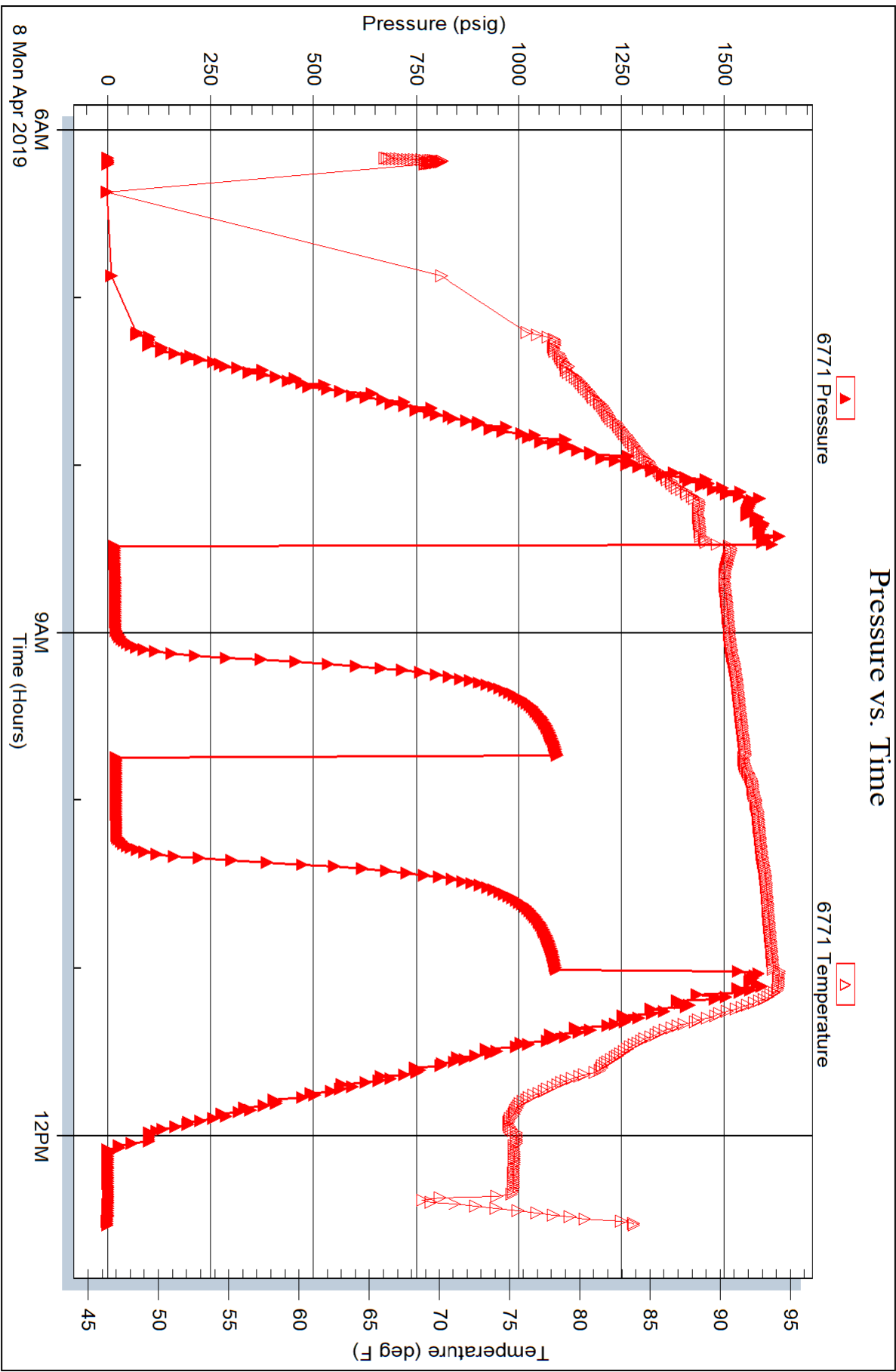
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65678**

Well Name & No. Schneider Trust 13B #1 Test No. 1 Date 4/7/19
 Company Ritchie Exploration, Inc. Elevation 2015 KB 2007 GL
 Address 8100 E. 22nd St. N. #700, PO Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Bob Petersen Rig WW 12
 Location: Sec. 13 Twp 10 S Rge. 14 W Co. Osborne State KS

Interval Tested 3246-3278 Zone Tested LKC "A"
 Anchor Length 32' Drill Pipe Run 3045 Mud Wt. 8.8
 Top Packer Depth 3241 Drill Collars Run 186 Vls 54
 Bottom Packer Depth 3246 Wt. Pipe Run _____ WL 6.0
 Total Depth 3278 Chlorides 1600 ppm System LCM 2#

Blow Description IF- Tool stid 10' Bkd off 2' blow. No blow
1st- No blow
PF- No blow. Flusted tool. Did surge. No blow
Fst- No blow

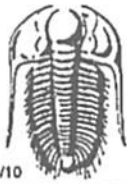
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 96° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1624</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0135</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0217</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0633</u>
(D) Initial Shut-In <u>272</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0903</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1040</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>96 RT</u> 96	Comments _____
(G) Final Shut-In <u>173</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1567</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</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 <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1621</u>
	Sub Total <u>1621</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Lonsdale

Trilobite 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. **65679**

Well Name & No. Schneider Trust 13 B #1 Test No. 2 Date 4/9/19
 Company Ritchie Exploration, Inc. Elevation 2015 KB 2007 GL
 Address 8100 E. 22nd St. N. #700, PO Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Bob Petersen Rig WW 12
 Location: Sec. 13 Twp 10 S Rge. 14 W Co. Osborne State KS

Interval Tested 3276-3310 Zone Tested LSC "B+C"
 Anchor Length 34' Drill Pipe Run 3077 Mud Wt. 9.0
 Top Packer Depth 3271 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 3276 Wt. Pipe Run ~ WL 6.8
 Total Depth 3310 Chlorides 1900 ppm System LCM 2#
 Blow Description IF-Intermittent surface bbw
ISI-No bbw
FF-No blow. Flushed tool. Did surge. No blow
FSI-No blow

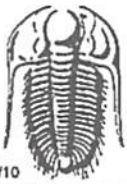
Rec	Feet of	%gas	%oil	%water	%mud
60	M				

Rec Total 60' BHT 96° Gravity ~ API RW ~ @ ~ °F Chlorides ~ ppm

(A) Initial Hydrostatic <u>1632</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1656</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1716</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1953</u>
(D) Initial Shut-In <u>995</u>	<input type="checkbox"/> Circ Sub <u>~</u>	T-Pulled <u>2223</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby <u>~</u>	T-Out <u>4/8</u> <u>0024</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>96 RT</u> 96	Comments <u>~</u>
(G) Final Shut-In <u>967</u>	<input type="checkbox"/> Sampler <u>~</u>	
(H) Final Hydrostatic <u>1591</u>	<input type="checkbox"/> Straddle <u>~</u>	
	<input type="checkbox"/> Shale Packer <u>~</u>	<input type="checkbox"/> EM Tool <u>~</u>
	<input type="checkbox"/> Extra Packer <u>~</u>	<input type="checkbox"/> Ruined Shale Packer <u>~</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder <u>~</u>	<input type="checkbox"/> Ruined Packer <u>~</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u>~</u>	<input type="checkbox"/> Extra Copies <u>~</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility <u>~</u>	Sub Total <u>0</u>
Final Shut-In <u>45</u>	Sub Total <u>1621</u>	Total <u>1621</u>

Approved By _____ Our Representative Brannan Lonsdale

Trilobite 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. 65680

Well Name & No. Schneider Trust 13 B #1 Test No. 3 Date 4/8/19
 Company Bitchie Explorations, Inc. Elevation 2015 KB 2007 GL
 Address 8100 E. 22nd St. N. #700 PO Box 283188 Wichita, KS 67278
 Co. Rep / Geo. Bob Petersen Rig WW 12
 Location: Sec. 13 Twp 10 S Rge. 14 W Co. Osborne State KS

Interval Tested 3307-3325 Zone Tested LRC "D"
 Anchor Length 18' Drill Pipe Run 3108 Mud Wt. 9.0
 Top Packer Depth 3302 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 3307 Wt. Pipe Run WL 6.8
 Total Depth 3325 Chlorides 1,900 ppm System LCM 2[#]

Blow Description IF - Surface blow died 6mins
ISF - No blow
FF - No blow
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</u>				
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 94° Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>1619</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0550</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0610</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0828</u>
(D) Initial Shut-In <u>1096</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1058</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1232</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>96 RT</u> 192	Comments <u>Tools loaded</u>
(G) Final Shut-In <u>1092</u>	<input type="checkbox"/> Sampler <u> </u>	<u>4/11 @ 1100</u>
(H) Final Hydrostatic <u>1590</u>	<input type="checkbox"/> Straddle <u> </u>	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u> </u>	<input type="checkbox"/> EM Tool <u> </u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
	<input type="checkbox"/> Accessibility <u> </u>	Sub Total <u>0</u>
	Sub Total <u>1717</u>	Total <u>1717</u>
		MP/DST Disc't <u> </u>

Approved By Our Representative Brannan Longdale

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