



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

SM-11164
PO-17417
FT-11050

TICKET NUMBER 55226
LOCATION Oakley
FOREMAN Jerry V

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 81368DKr

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-20-19	1487	Schmitt #1	11	11S	32W	Logan
CUSTOMER <u>Bake Exp</u>			Oakley			
MAILING ADDRESS <u>201S. Main</u>			15 E into			
CITY <u>Bogue</u>		STATE <u>KS</u>	ZIP CODE <u>67625</u>			
TRUCK #	DRIVER	TRUCK #	DRIVER			
751	Cory D					
5287-127	Agon M					
535	Jerry V					
697	Walt D					

JOB TYPE Port Collar HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2
CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER P.C.C 2545
SLURRY WEIGHT 125 SLURRY VOL 1.89 WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 14 1/4 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on Harrison Services test tool @ 1000 # open tool
4 1/2 in rate 3 1/2 bbl/min @ 290 SKS 60/40 8 1/2 1 1/2 flo wash up & displace with 14 1/4
bbl close tool test to 1000 # held 5 min release run 10 jgs & reverse clean with 3 1/2
bbl fresh water pull tubing press casing to 500 # & shut in

Circulated cement

to surface

Thank you

Jerry's crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	10	MILEAGE	7.15	71.50
CE0711		for mileage delivery	660.00	660.00
CC5831	290 SKS	life bleed VU	17.50	5075.00
CC6075	73 #	fla seal	3.00	219.00
CC6000	500 #	bottom seal holes	1.00	500.00
			Subtotal	7925.50
			-308	2377.65
			Subtotal	5547.85
			8%	SALES TAX
				ESTIMATED TOTAL <u>296.92</u>
				<u>\$5844.32</u>

Revin 3737

AUTHORIZATION

TITLE _____

DATE _____

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.



PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

10039
10928

TICKET NUMBER 55214
LOCATION Oakley Ks
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #813556 155

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-3-18	1487	Schnitt #1	11	11 ^s	32 ^w	Logan
CUSTOMER Blake Exp			Oakley Ks 15 East			
MAILING ADDRESS 201 S. Main			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Boque			753	Eric		
STATE KS			566	Neil		
ZIP CODE 67625			535	Jerry		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 262 CASING SIZE & WEIGHT 8 7/8 23 #
 CASING DEPTH 262 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.1 SLURRY VOL 124 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 15 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on STP circulate casing mix 160 SKS down 36 CC 28 gal wash up & disp with 15 1/4 dbl fresh water & Sacti H

cement did Circulate

Thank you Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	10	MILEAGE	7.15	71.50
CE0711	7.52	1000 mileage delivery min	660.00	660.00
CC5871	160.5Ks	surface blend II	24.00	3840.00
			Subtotal	5721.50
			-308	1716.45
			Subtotal	4005.00
			SALES TAX	215.04
			ESTIMATED TOTAL	4220.09

12242
AUTHORIZATION Kelly Strutt TITLE _____ DATE _____

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11105
10990

TICKET NUMBER 55221
LOCATION Oakley Ks
FOREMAN Jerry D
Walt D

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

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE # 813616

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-13-18	1487	Schmitt #1	11	115	32 nd	Logan
CUSTOMER		MILING ADDRESS		CITY		STATE
Blake Exp.		2015. Main		Boque		KS
MAILING ADDRESS		ZIP CODE		TRUCK #		
2015. Main		67625		753		
				566		
				assist		
				535		
				DRIVER		
				Cory D		
				Cory W		
				Neil W		
				Jerry Y		

JOB TYPE long string HOLE SIZE 7 7/8 HOLE DEPTH 4650 CASING SIZE & WEIGHT 5 1/2 14#
 CASING DEPTH 4630 DRILL PIPE _____ TUBING _____ OTHER Part Collet @ 2540
 SLURRY WEIGHT 1.2 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING 18'
 DISPLACEMENT 112 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on STP run float equip. Centralizers on 2, 3, 7, 9, 52 baskets on 13, 14, 18, 50 Part Collet on top of STP set @ 2540 run casing to bottom pump bell thru & core 30 min pump 5 bbl H₂O, mud flash, 5 bbl water mix 220 sks down center shut down release plug clean pump & lines displacer with 112 1/2 bbl fresh water 1250# final lift plug landed @ 7800# released back & float held

30 sks RT

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	2800.00	2800.00
CE0002	10	MILEAGE	7.15	71.50
CE0711	7.05	ton mileage delivery	660.00	660.00
CC5862	230	thixoblend III	26.00	5980.00
CC6077	1250	Kalsol	.50	625.00
CC6125	1735	mud flash	6.5	325.00
CP8485	1	5 1/2 AFU float shoe	585.00	585.00
CP8254	1	5 1/2 latch down assy	400.00	400.00
CP8554	5	5 1/2 centralizers	81.00	405.00
CP8629	5	5 1/2 baskets	385.00	1925.00
CP8776	1	5 1/2 Part Collet	2850.00	2850.00
		subtotal		16626.50
		-306		4987.95
		subtotal		11638.55
		SALES TAX		733.32
		ESTIMATED TOTAL		12371.87

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

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.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63886

DST#: 1

ATTN: Mike Davignon

Test Start: 2018.07.07 @ 21:53:25

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:25

Time Test Ended: 05:18:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4070.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Total Depth: 4120.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3060.00 ft (KB)

3053.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8166

Inside

Press@RunDepth: 282.38 psig @ 4071.00 ft (KB)

Start Date: 2018.07.07

End Date:

2018.07.08

Start Time: 21:53:25

End Time:

05:18:25

Capacity: 8000.00 psig

Last Calib.: 2018.07.08

Time On Btm: 2018.07.07 @ 23:55:55

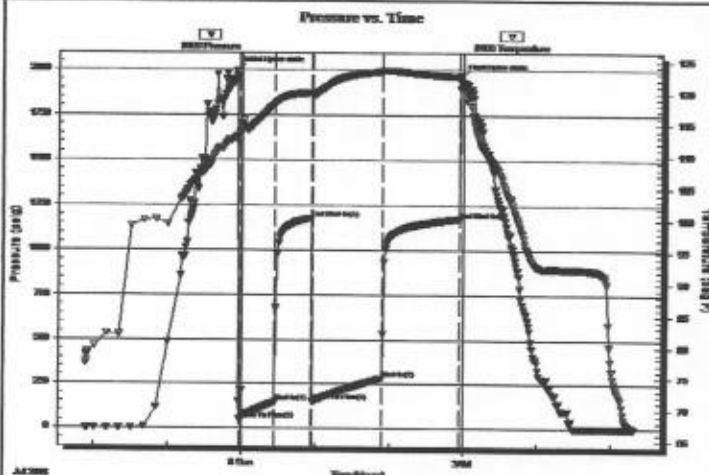
Time Off Btm: 2018.07.08 @ 02:58:25

TEST COMMENT: IF: BOB in 12 min. 24 1/2"

IS: No return.

FF: BOB in 14 min. 38"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.42	113.02	Initial Hydro-static
3	50.08	113.79	Open To Flow (1)
31	144.25	118.14	Shut-In(1)
61	1178.50	119.94	End Shut-In(1)
62	149.52	119.64	Open To Flow (2)
118	282.38	123.30	Shut-In(2)
181	1174.35	122.53	End Shut-In(2)
183	1959.26	122.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 95%w 5%m	0.67
189.00	mcw 90%w 10%m	2.65
189.00	gocw m 5%g 10%o 10%w 75%m	2.65
126.00	go 10%g 90%o	1.77
0.00	126 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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Total 7.74 bbl
2.035/eic
5.705/wtr

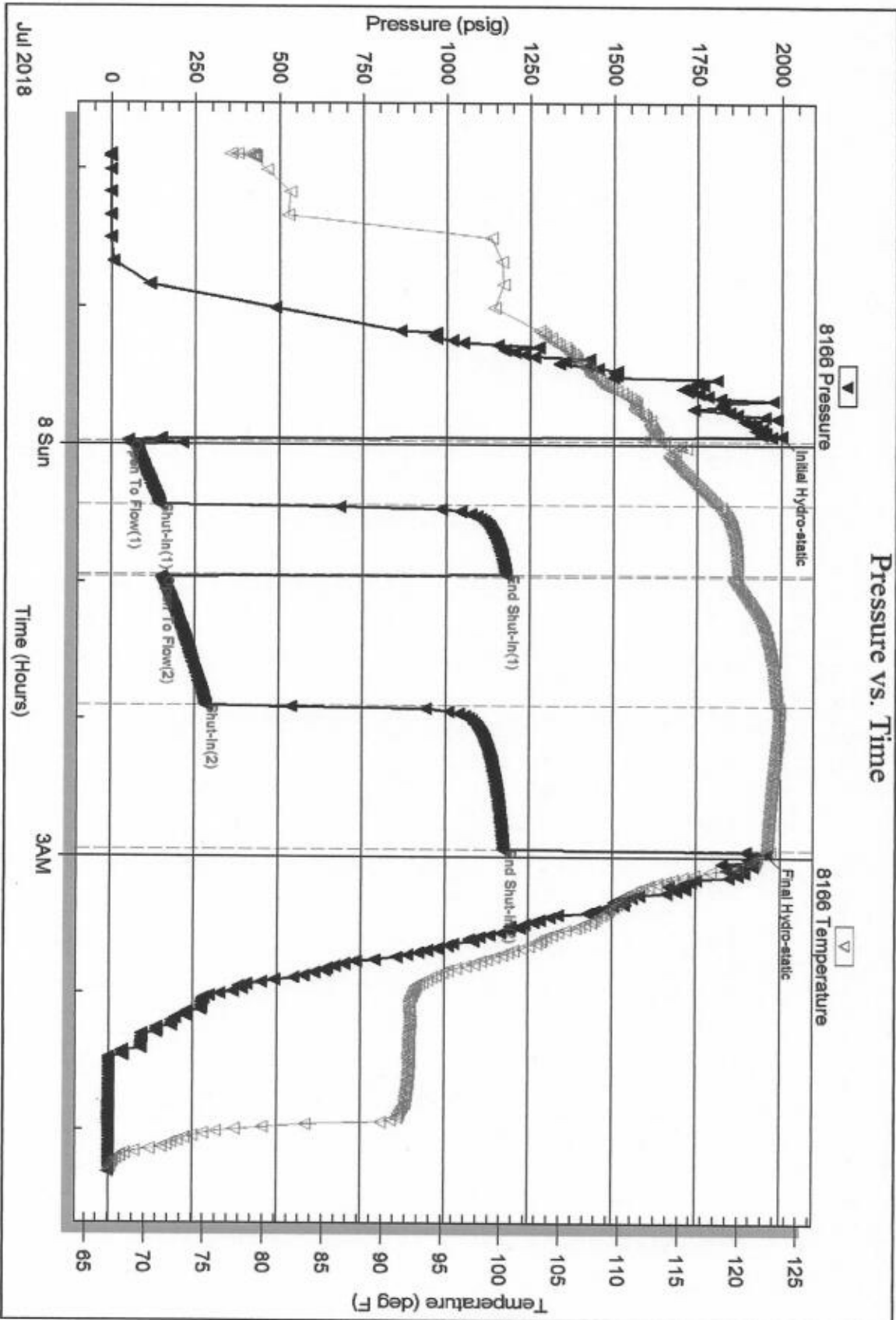
18570mc / 24hr
48.6 oil / 24hr
136.4 wtr / 24hr

Serial #: 8166

Inside Blake Exploration

Schnitt #1

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63887

DST#: 2

ATTN: Mike Davignon

Test Start: 2018.07.08 @ 11:40:14

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:28:44

Time Test Ended: 18:29:14

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brandon Turley**

Unit No: **79**

Interval: **4115.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Total Depth: **4140.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3060.00 ft (KB)**

3053.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8166**

Inside

Press@RunDepth: **114.02 psig @ 4116.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2018.07.08**

End Date:

2018.07.08

Last Calib.: **2018.07.08**

Start Time: **11:40:14**

End Time:

18:29:14

Time On Btm: **2018.07.08 @ 13:27:14**

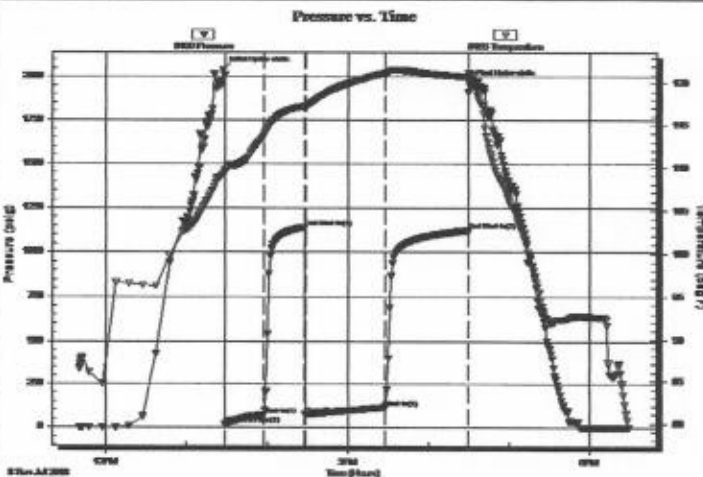
Time Off Btm: **2018.07.08 @ 16:30:44**

TEST COMMENT: **IF: 1/4 blow built to 9 1/4.**

IS: Surface blow built to 1/2.

FF: BOB in 30 min. 19"

FS: Surface blow built to 1.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.67	109.24	Initial Hydro-static
2	15.24	109.31	Open To Flow (1)
30	68.83	113.73	Shut-in(1)
61	1139.94	117.17	End Shut-in(1)
61	74.07	116.85	Open To Flow (2)
121	114.02	121.19	Shut-in(2)
183	1120.89	120.81	End Shut-in(2)
184	1965.47	121.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 80%w 20%m	0.67
31.00	ocw m 10%o 10%w 80%m	0.43
94.00	go 20%g 80%o	1.32
0.00	190 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Handwritten notes:
 1.04
 1.32
 1.36 oil
 1.39
 1.67
 1.06 wt
 2.92-101MC 56%oil (58%oil/day) TF
 (3200/day)
 oil

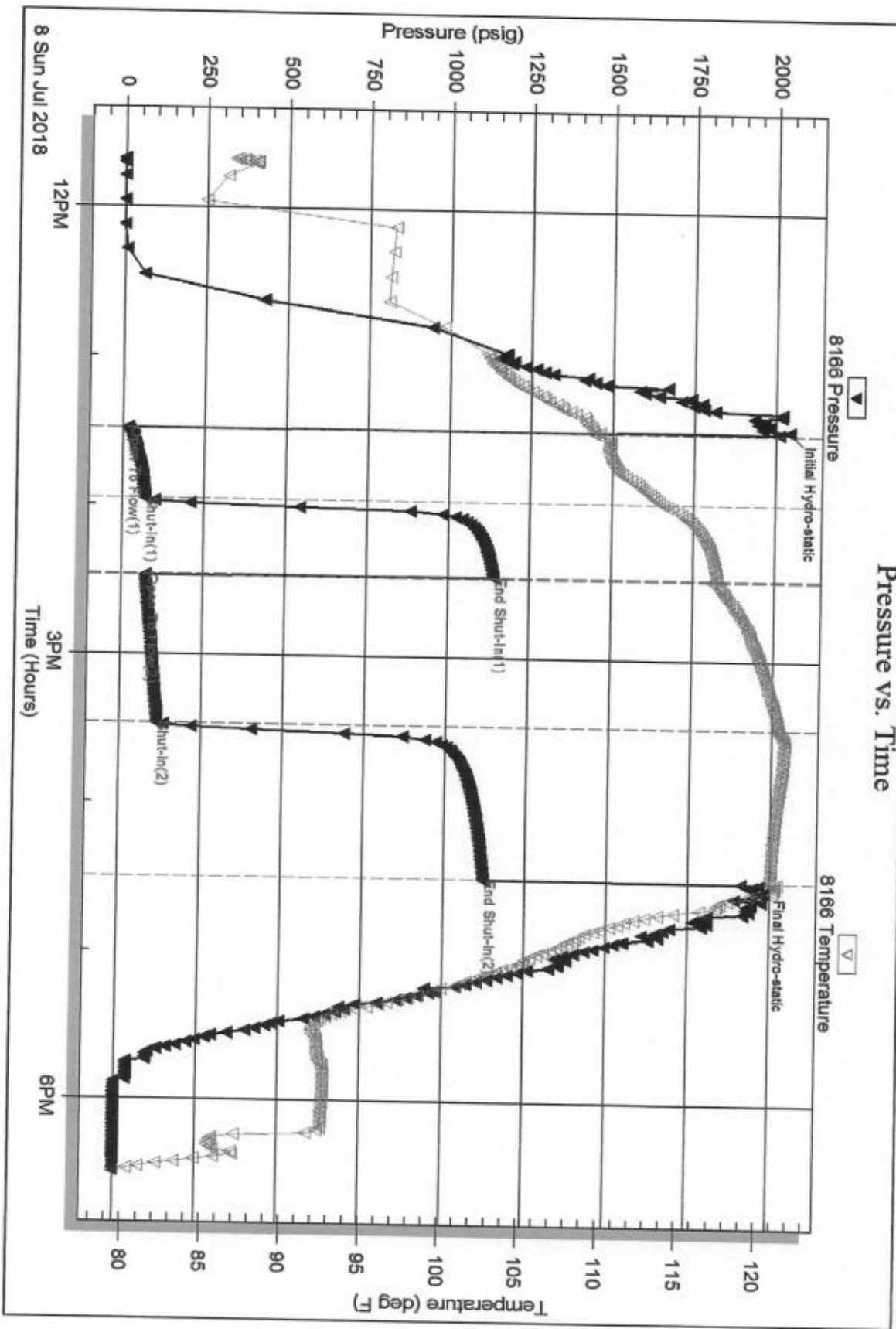
Serial #: 8166

Inside Blake Exploration

Schnitt #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63887

Printed: 2018.07.08 @ 18:33:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63888

DST#: 3

ATTN: Mike Davignon

Test Start: 2018.07.09 @ 04:57:23

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:23

Time Test Ended: 11:03:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4175.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3060.00 ft (KB)

3053.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **8166**

Inside

Press@RunDepth: 747.88 psig @ 4176.00 ft (KB)

Start Date: 2018.07.09

End Date:

2018.07.09

Capacity: 8000.00 psig

Last Calib.: 2018.07.09

Start Time: 04:57:23

End Time:

11:03:53

Time On Btm: 2018.07.09 @ 06:43:53

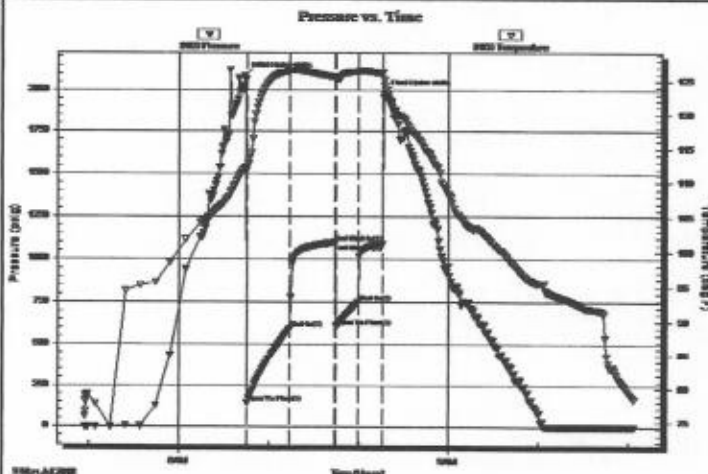
Time Off Btm: 2018.07.09 @ 08:16:53

TEST COMMENT: IF: BOB in 1 1/2. 153"

IS: No return.

FF: BOB in 3 min. 54"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.15	111.96	Initial Hydro-static
2	143.10	111.84	Open To Flow (1)
30	595.68	126.47	Shut-In(1)
61	1098.73	125.56	End Shut-In(1)
61	608.96	125.39	Open To Flow (2)
76	747.88	126.36	Shut-In(2)
92	1092.67	126.10	End Shut-In(2)
93	1981.73	125.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
592.00	mcw 95%w 5%m	7.20
252.00	gocmw 10%g 30%o 55%w 5%m	3.53
315.00	w mcgo 30%g 30%o 20%w 20%m	4.42
315.00	gocw m 20%g 10%o 30%w 40%m	4.42
189.00	ocw m 10%o 40%w 50%m	2.65
25.00	oil 100%o	0.35

* Recovery from multiple tests

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOTAL 22.57 BOB 4/HR IN TEST =
~~15.5%~~
 30.09 / ~~HR~~ = 722.24 x 15.5% = 1119.50
 HR

Serial #: 8166

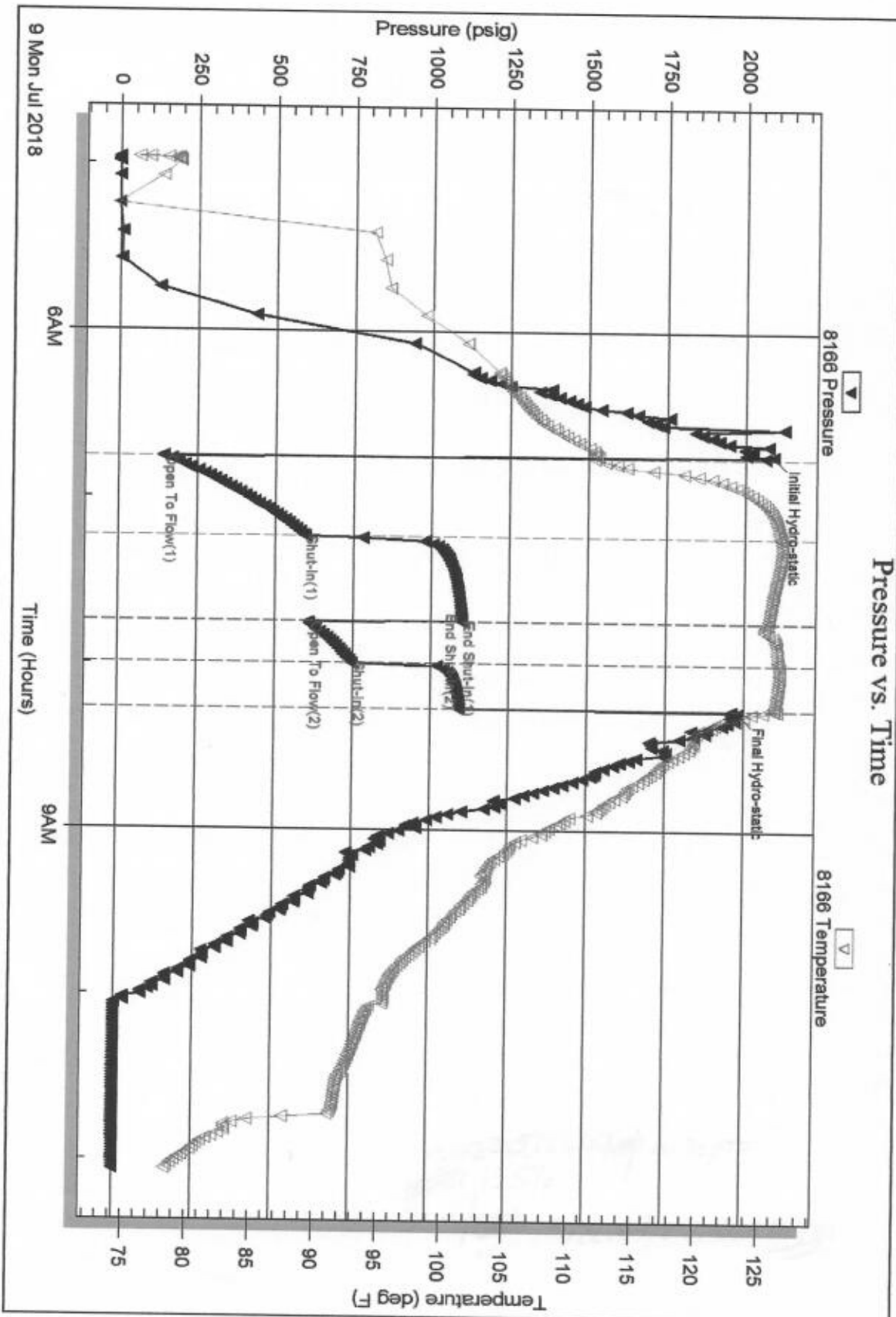
Inside

Blake Exploration

Schmitt #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63888

Printed: 2018.07.09 @ 11:14:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63889

DST#: 4

ATTN: Mike Davignon

Test Start: 2018.07.09 @ 17:36:30

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:36:30

Time Test Ended: 00:18:30

Interval: **4220.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: **4240.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brandon Turley**

Unit No: **79**

Reference Elevations: **3060.00 ft (KB)**

3053.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8166**

Inside

Press@RunDepth: **57.65 psig @ 4221.00 ft (KB)**

Start Date: **2018.07.09**

End Date:

2018.07.10

Start Time: **17:36:30**

End Time:

00:18:30

Capacity: **8000.00 psig**

Last Calib.: **2018.07.10**

Time On Bttr: **2018.07.09 @ 19:35:30**

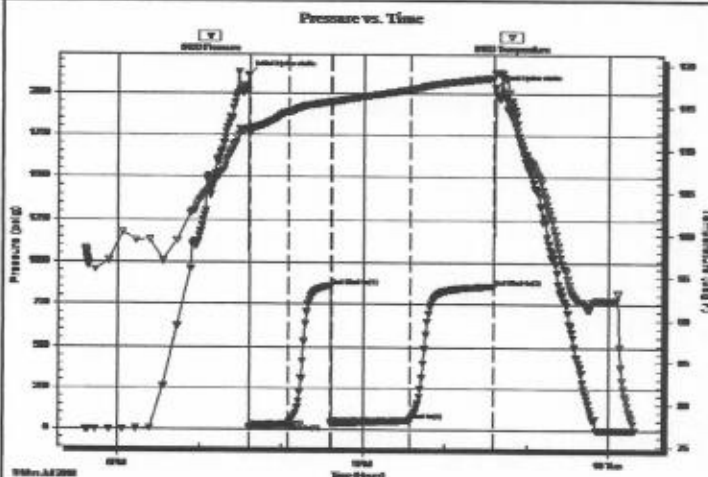
Time Off Bttr: **2018.07.09 @ 22:36:30**

TEST COMMENT: IF: Surface blow built to 5 1/4.

IS: No return.

FF: BOB in 47 min. 12"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.33	112.41	Initial Hydro-static
1	13.34	111.89	Open To Flow (1)
29	31.45	114.39	Shut-In(1)
61	859.15	115.59	End Shut-In(1)
62	33.18	115.47	Open To Flow (2)
119	57.65	117.07	Shut-In(2)
180	857.59	118.51	End Shut-In(2)
181	2034.92	119.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gocm 30%g 20%o 50%m	0.44
0.00	220 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

TriLOBITE Testing, Inc

Ref. No: 63889

Printed: 2018.07.10 @ 00:22:46

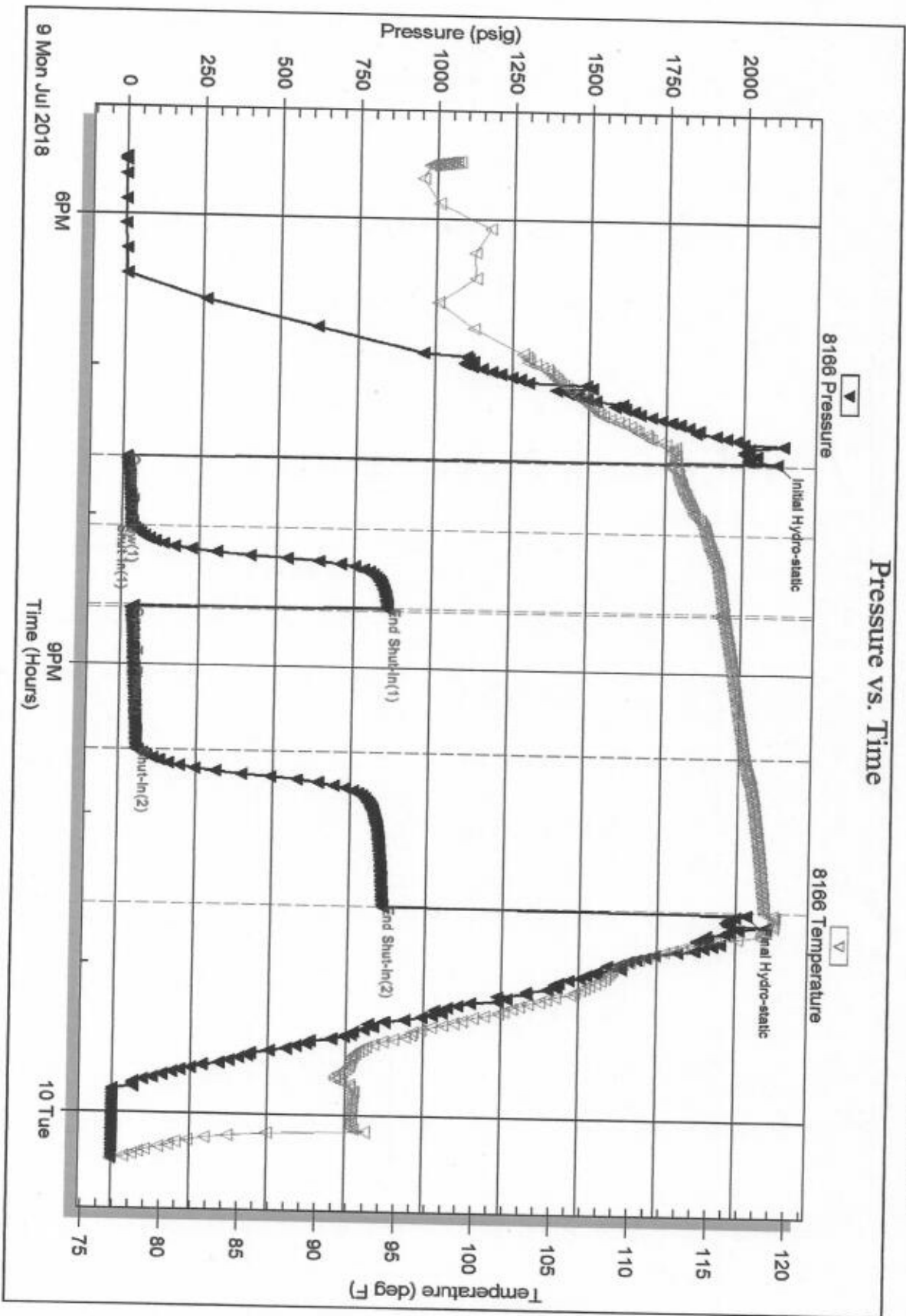
Serial #: 8166

Inside

Blake Exploration

Schnitt #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 63889

Printed: 2018.07.10 @ 00:22:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63890

DST#: 5

ATTN: Mike Davignon

Test Start: 2018.07.10 @ 07:51:50

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:33:20

Time Test Ended: 14:04:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4245.00 ft (KB) To 4270.00 ft (KB) (TVD)**

Total Depth: 4270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3060.00 ft (KB)

3053.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **8166**

Inside

Press@RunDepth: 35.81 psig @ 4246.00 ft (KB)

Start Date: 2018.07.10

End Date:

2018.07.10

Start Time: 07:51:50

End Time:

14:04:50

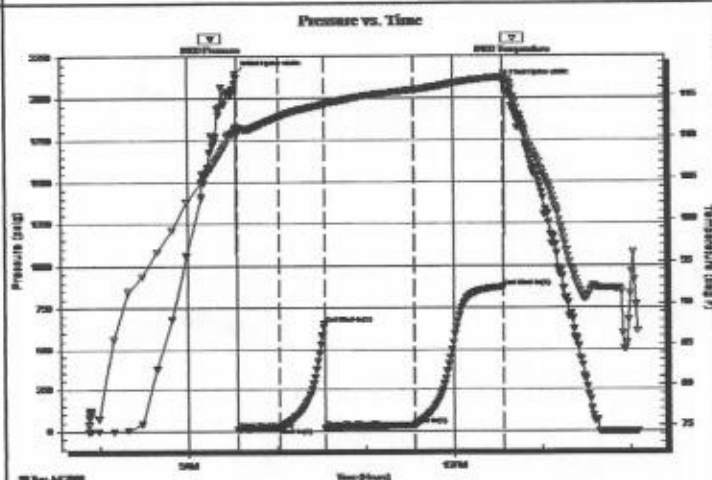
Capacity: 8000.00 psig

Last Calib.: 2018.07.10

Time On Btm: 2018.07.10 @ 09:32:20

Time Off Btm: 2018.07.10 @ 12:34:50

TEST COMMENT: IF: 1/4 blow built to 6.
IS: No return.
FF: BOB in 30 min. 16 1/2
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.02	110.90	Initial Hydro-static
1	12.09	110.34	Open To Flow (1)
30	20.92	112.45	Shut-In(1)
60	655.33	113.91	End Shut-In(1)
61	18.55	113.83	Open To Flow (2)
121	35.81	115.69	Shut-In(2)
182	874.38	117.25	End Shut-In(2)
183	2090.97	117.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 30%o 60%m	0.30
1.00	free oil 100%o	0.00
0.00	380 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

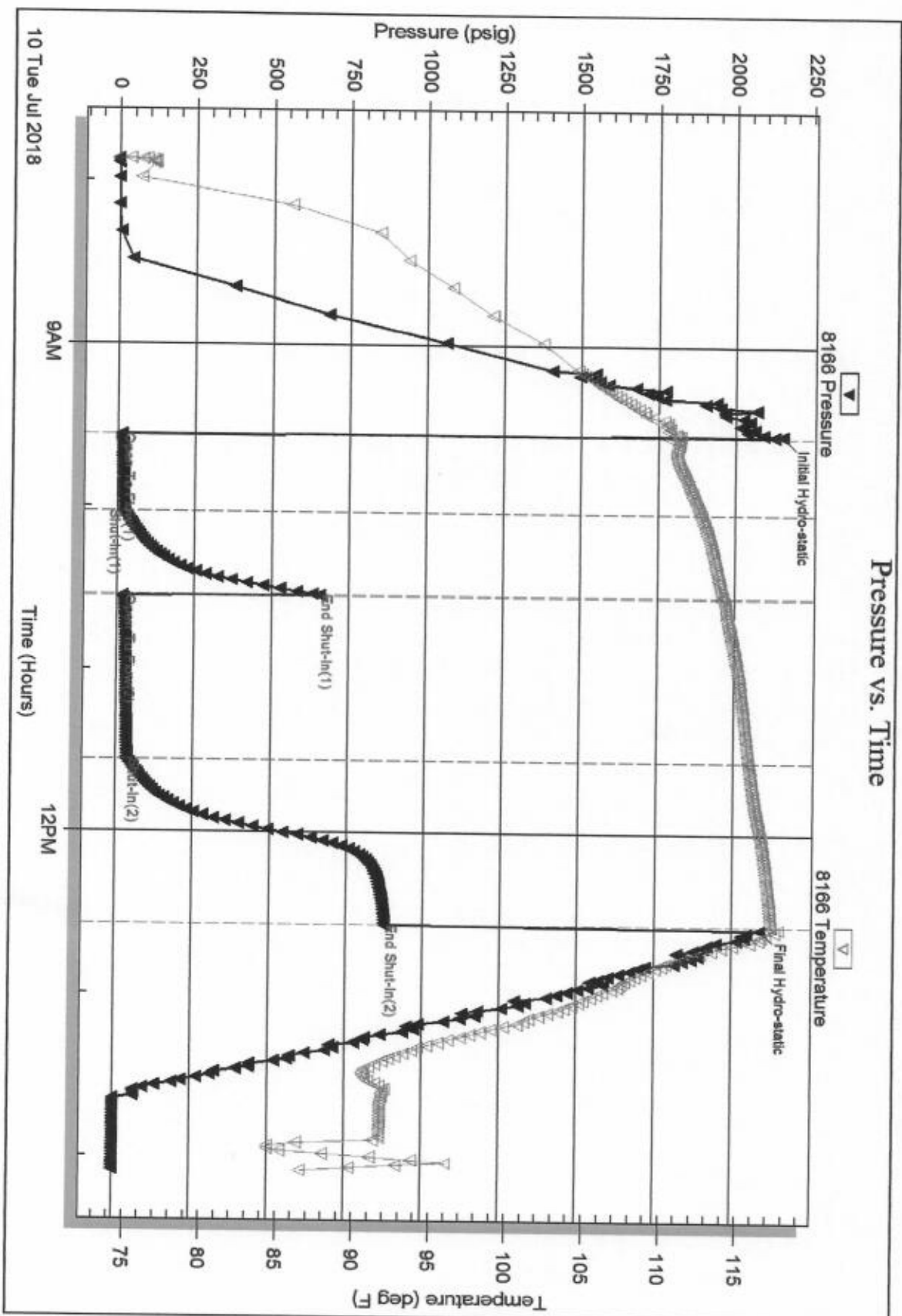
Serial #: 8166

Inside

Blake Exploration

Schnrtt #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63890

Printed: 2018.07.10 @ 14:09:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63891

DST#: 6

ATTN: Mike Davignon

Test Start: 2018.07.11 @ 01:00:04

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:37:34

Time Test Ended: 07:17:04

Interval: **4295.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3060.00 ft (KB)

3053.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8166

Inside

Press@RunDepth: 24.38 psig @ 4296.00 ft (KB)

Start Date: 2018.07.11

End Date:

2018.07.11

Capacity: 8000.00 psig

Last Calib.: 2018.07.11

Start Time: 01:00:04

End Time:

07:17:04

Time On Btm: 2018.07.11 @ 02:36:04

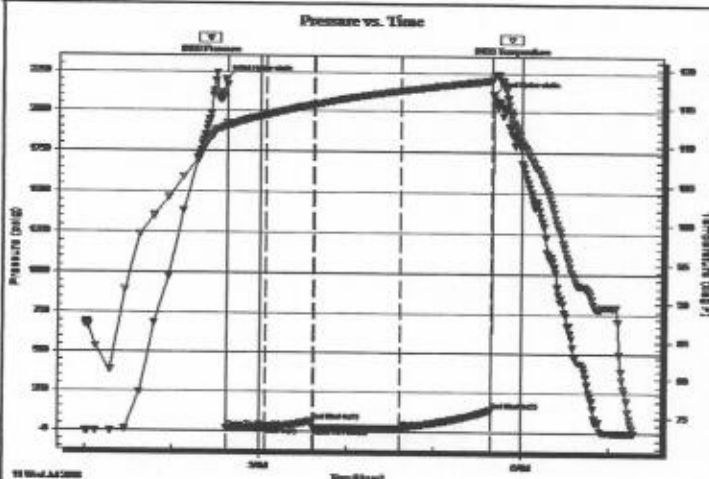
Time Off Btm: 2018.07.11 @ 05:40:04

TEST COMMENT: IF: Surface blow built to 1 1/2.

IS: No return.

FF: 1 1/4 blow built to 3.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.81	112.41	Initial Hydro-static
2	18.25	112.42	Open To Flow (1)
28	22.20	113.88	Shut-in(1)
61	65.49	115.27	End Shut-in(1)
61	20.41	115.26	Open To Flow (2)
121	24.38	117.16	Shut-in(2)
183	141.74	118.59	End Shut-in(2)
184	2112.00	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	gocm 10%g 20%o 70%m	0.15
0.00	157 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166

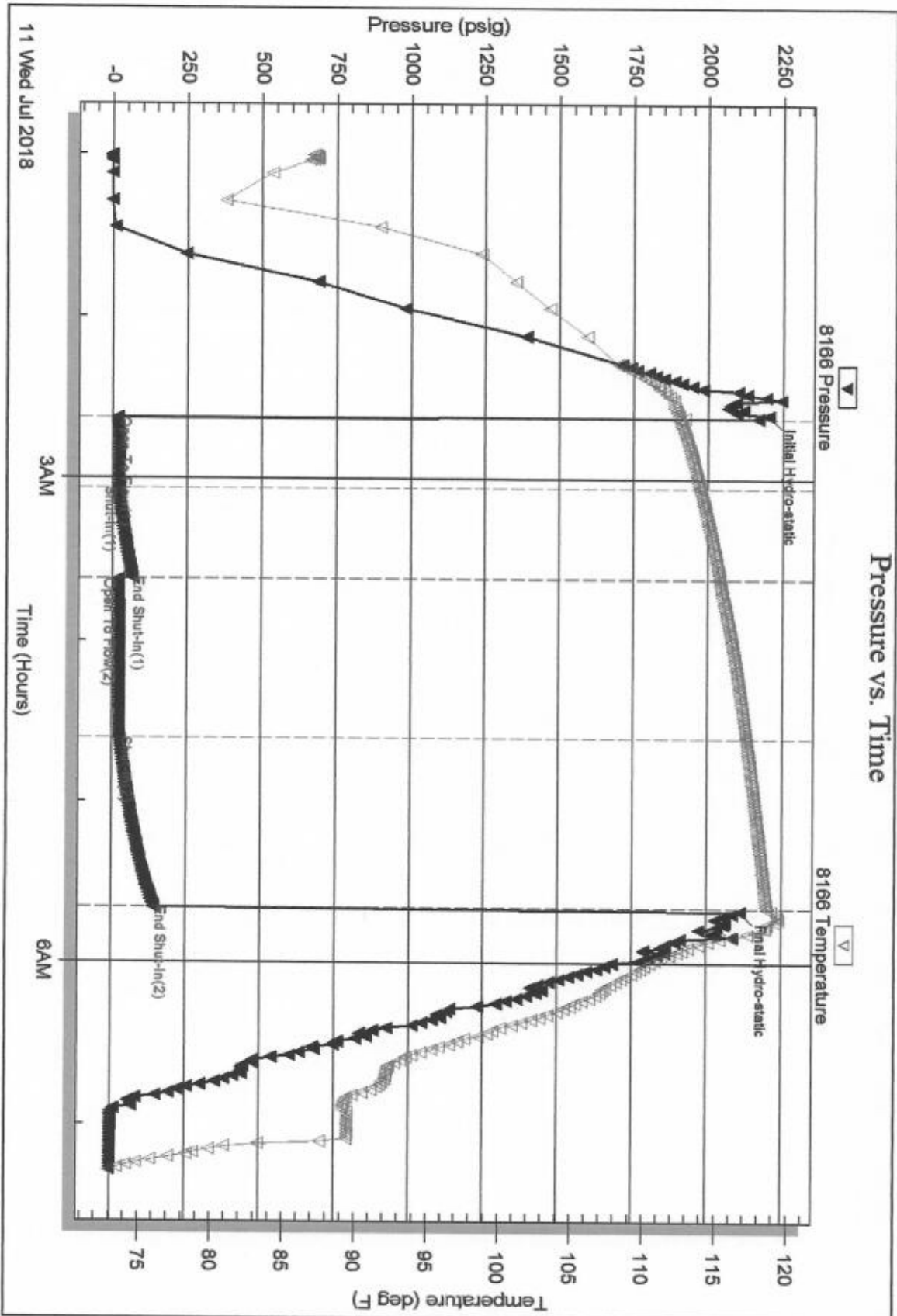
Inside

Blake Exploration

Schnitt #1

DST Test Number: 6

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

Job Ticket: 63892

DST#: 7

ATTN: Mike Davignon

Test Start: 2018.07.11 @ 15:10:07

GENERAL INFORMATION:

Formation: **Lenapah**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:13:37

Time Test Ended: 22:18:07

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brandon Turley**

Unit No: **79**

Interval: **4325.00 ft (KB) To 4373.00 ft (KB) (TVD)**

Total Depth: **4373.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3060.00 ft (KB)**

3053.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8166**

Inside

Press@RunDepth: **107.04 psig @ 4326.00 ft (KB)**

Start Date: **2018.07.11**

End Date:

2018.07.11

Start Time: **15:10:07**

End Time:

22:18:07

Capacity: **8000.00 psig**

Last Calib.: **2018.07.11**

Time On Btm: **2018.07.11 @ 17:13:07**

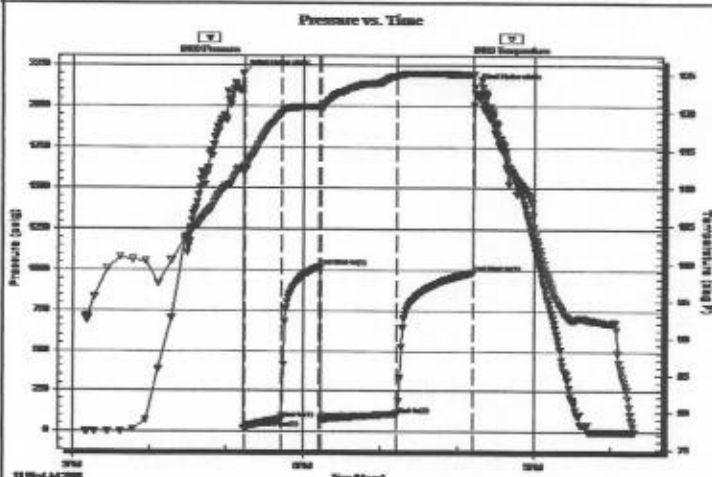
Time Off Btm: **2018.07.11 @ 20:14:07**

TEST COMMENT: IF: 1/4 blow built to 5.

IS: No return.

FF: Surface blow built to 5 1/2.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.55	112.72	Initial Hydro-static
1	19.78	112.14	Open To Flow (1)
30	73.40	119.84	Shut-In(1)
60	1024.47	120.72	End Shut-In(1)
61	76.17	120.48	Open To Flow (2)
120	107.04	124.79	Shut-In(2)
179	987.40	125.00	End Shut-In(2)
181	2118.76	122.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 80%w 20%m	0.67
78.00	w cm 30%w 70%m	1.09

* Recovery from multiple tests

Gas Rates

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

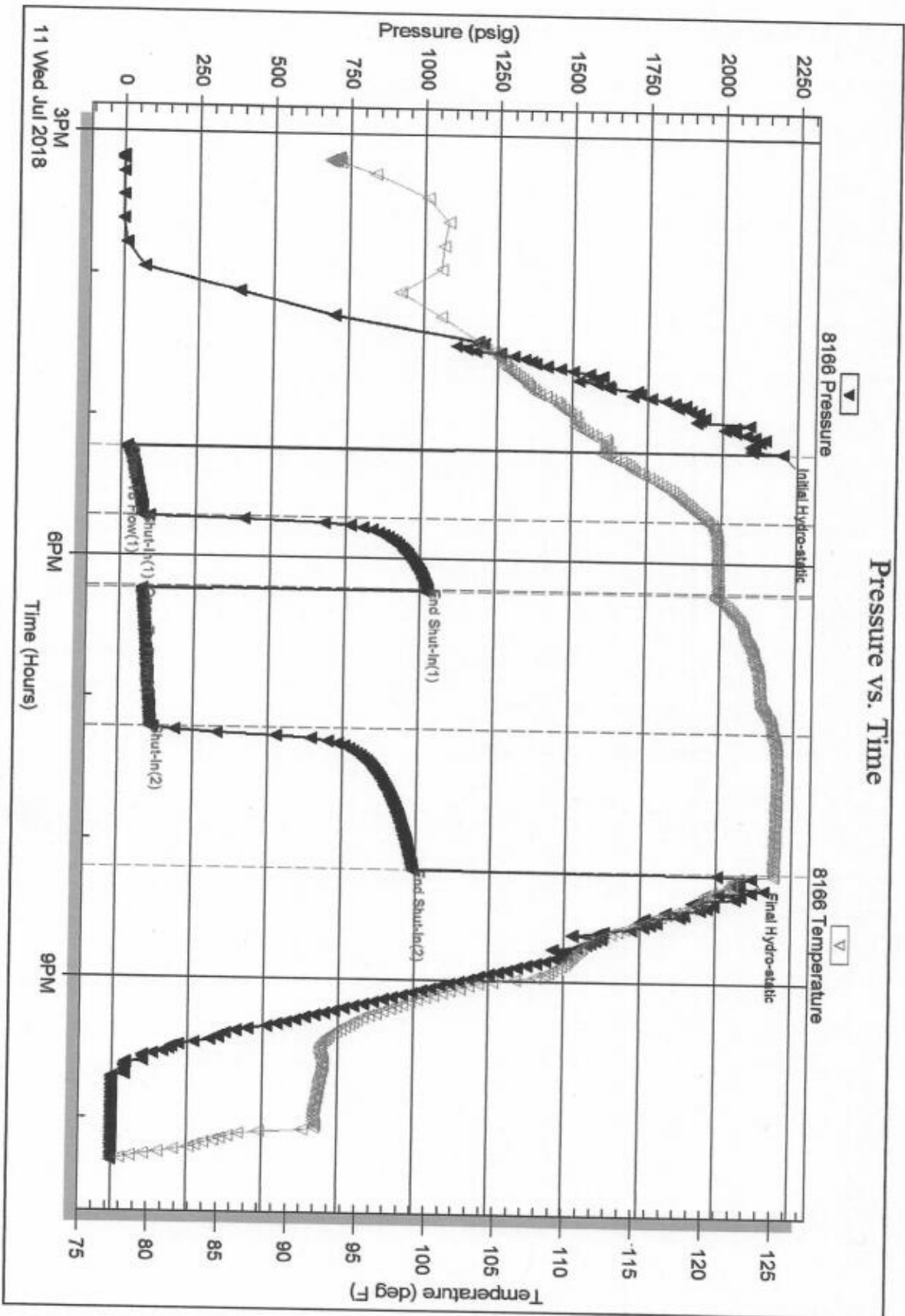
Serial #: 8166

Inside

Blake Exploration

Schnitz #1

DST Test Number: 7





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

11-11s-32w Logan, KS

201 S Main
Bogue, Ks 67625

Schmitt #1

ATTN: Mike Davignon

Job Ticket: 63893

DST#: 8

Test Start: 2018.07.12 @ 21:43:09

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:38:09

Time Test Ended: 04:22:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4565.00 ft (KB) To 4610.00 ft (KB) (TVD)

Total Depth: 4610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3060.00 ft (KB)

3053.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8166

Inside

Press@RunDepth: 46.38 psig @ 4566.00 ft (KB)

Start Date: 2018.07.12

End Date:

2018.07.13

Capacity: 8000.00 psig

Start Time: 21:43:09

End Time:

04:22:09

Last Calib.: 2018.07.13

Time On Btm: 2018.07.12 @ 23:37:09

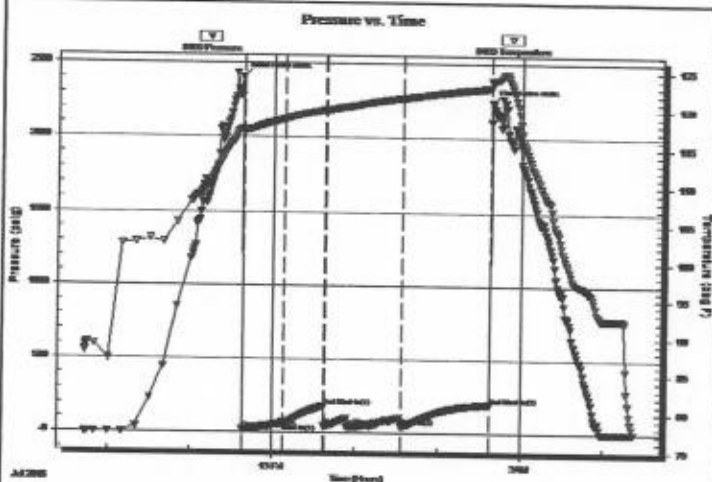
Time Off Btm: 2018.07.13 @ 02:38:39

TEST COMMENT: IF: Surface blow built to 1 3/4.

IS: No return.

FF: 1" blow built to 3 1/2.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2407.44	117.56	Initial Hydro-static
1	17.59	117.08	Open To Flow (1)
31	55.09	118.79	Shut-In(1)
60	178.63	119.95	End Shut-In(1)
61	42.67	119.92	Open To Flow (2)
117	46.38	121.60	Shut-In(2)
181	192.83	122.97	End Shut-In(2)
182	2241.22	123.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 10%o 80%m	0.30
20.00	ocm 5%o 95%m	0.10
0.00	126 GIP	0.00

Gas Rates

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

* Recovery from multiple tests

TriLOBITE Testing, Inc

Ref. No: 63893

Printed: 2018.07.13 @ 04:27:03

Serial #: 8166

Inside

Blake Exploration

Schmitt #1

DST Test Number: 8

Pressure vs. Time

