KOLAR Document ID: 1417311

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33306
Name: Blake Exploration, LLC
Address 1: 201 S MAIN
Address 2: PO BOX 150
City: BOGUE State: KS Zip: 67625 + ____
Contact Person: MIKE DAVIGNON
Phone: (785) 421-2921
CONTRACTOR: License # 35410
Name: STP Drilling LLC
Wellsite Geologist: MIKE DAVIGNON
Purchaser: ____

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: ____
☐ Dual Completion Permit #: ____
☐ SWD Permit #: ____
☐ EOR Permit #: ____
☐ GSW Permit #: ____

07/03/2018	07/13/2018	08/01/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-109-21556-00-00
Spot Description: ____
__ - W2 - W2 - SW Sec. 11 Twp. 11 S. R. 32 ☐ East ☑ West
1320 Feet from ☐ North / ☑ South Line of Section
330 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: SCHMITT Well #: 1
Field Name: ____
Producing Formation: LKC
Elevation: Ground: 3053 Kelly Bushing: 3060
Total Vertical Depth: 4650 Plug Back Total Depth: ____
Amount of Surface Pipe Set and Cemented at: 262 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: ____ Feet
If Alternate II completion, cement circulated from: 2495
feet depth to: 0 w/ 290 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 1000 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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** ☑ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 08/06/2018

Operator Name: Blake Exploration, LLC Lease Name: SCHMITT Well #: 1

Sec. 11 Twp. 11 S. R. 32 ☐ East ☑ West County: Logan

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. 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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

DUAL INDUCTION
DUAL DENSITY
MICRO

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
ANHYDRITE	2558	+502
HEEBNER	4006	-946
LANSING	4047	-987
JOHNSON	4584	-1524

CASING RECORD ☑ New ☐ 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
Surface	14.25	8.625	24	262	COM	160	5,10
Production	8.875	5.5	14	4630	COM	230	2,3

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☑ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
0-2495	LITE BLEND	290	
-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection: 08/1/2018

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10		30		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4078	4250

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4246	4250			1500G
4	4224	4234			1500G
4	4120	4126			1500G
4	4078	4082			1500G

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.875	4150	4200	

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Blake Exploration, LLC
Well Name	SCHMITT 1
Doc ID	1417311

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	14.25	8.625	24	262	COM	160	5,10
Production	8.875	5.5	14	4630	COM	230	2,3

SM-11164
PO-17417
XT-11050

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

TICKET NUMBER 55226
LOCATION Oakley KS
FOREMAN Jerry Y
Walt D

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE #813680KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-20-18	1487	Schmidt #1	11	11S	32W	Logan

CUSTOMER: Blake Exp
MAILING ADDRESS: 201 S. Main
CITY: Bogue STATE: KS ZIP CODE: 67625

Oakley 1S E into

TRUCK #	DRIVER	TRUCK #	DRIVER
731	Cory D	[illegible]	
528 T-127	Aaron M		
535	Jerry Y		
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. @ 2545
SLURRY WEIGHT 12.5 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 Hurricane Services test tool @ 1000 # open tool take injection rate 3 1/2 bpm mix 290 sks 60/40 8% 1/4# flo wash up & displace with 14 1/4 bbl close tool test to 1000# held 5 min release run 10 jts & reverse clean with 35 bbl fresh water pull tubing press casing to 500# & shut in

circulated cement

to surface

Thank you
Jerry's crew

ACCOUNT CODE	QUANITY 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		ton mileage delivery	660.00	660.00
CC5831	290 sks	lite blend VII	17.50	5075.00
CC6075	73 #	flo seal	3.00	219.00
~~CC6000~~	~~500#~~	~~Cotton seed hulls~~	~~1.00~~	~~500.00~~
			subtotal	7925.50
			-30%	2377.65
			subtotal	5547.85
		8%	SALES TAX	296.47
			ESTIMATED TOTAL	$5844.32

Ravin 3737

AUTHORIZTION [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.

QES

PRESSURE PUMPING LLC

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

11039
10928

TICKET NUMBER 55214
LOCATION Oakley Ks
FOREMAN Jerry J

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #813556 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-3-18	1487	Schmitt #1	11	11S	32W	Logan

CUSTOMER: Blake Exp
MAILING ADDRESS: 201 S. Main
CITY: Bogue | STATE: Ks | ZIP CODE: 67625

Oakley Ks IS Esc

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Eric		
566	Neil		
535	Jerry		

JOB TYPE Surface | HOLE SIZE 12¼ | HOLE DEPTH 262 | CASING SIZE & WEIGHT 8⅝ 23#
CASING DEPTH 262 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 15.1 | SLURRY VOL 1.24 | WATER gal/sk | CEMENT LEFT in CASING 20'
DISPLACEMENT 15¼ | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty meting rig up on STP circulate casing mix 160 sks com 3% CC 2% gel wash up & disp with 15¼ bbl fresh water & Shut in cement did Circulate

Thank you
Jerry & crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0000	10	MILEAGE	7.15	71.50
CE0711	7.52	ton mileage delivery min	660.00	660.00
CC5871	160 sks	surface blend II	24.00	3840.00
			Subtotal	5721.50
			-30%	1716.45
			Subtotal	4005.05
			SALES TAX	215.04
			ESTIMATED TOTAL	4220.09

Ravin 3737

AUTHORIZTION Kelly Strutt TITLE DATE

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QES

PRESSURE PUMPING LLC

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

11105
10990

TICKET NUMBER 55221
LOCATION Oakley KS
FOREMAN Jerry G

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE #813616 W14D

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-13-18	1487	Schmitt #1	11	11S	32W	Logan KS

CUSTOMER: Blake Exp.
MAILING ADDRESS: 201 S. Main
CITY: Bogue | STATE: KS | ZIP CODE: 67625

Oakley 15 Empl

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Cory D	697	W14D
566	Cory W		
assist	Neil W		
535	Jerry Y		

JOB TYPE long string | HOLE SIZE 7 7/8 | HOLE DEPTH 4650 | CASING SIZE & WEIGHT 5 1/2 14#
CASING DEPTH 4638 | DRILL PIPE | TUBING | OTHER Port Collar @ 2540
SLURRY WEIGHT 14.2 | SLURRY VOL 1.42 | WATER gal/sk | CEMENT LEFT in CASING 18'
DISPLACEMENT 112 1/2 bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty meeting - rig up on 5TP run float equip. centralizers on 2, 3, 7, 9, 52 baskets on 10, 14, 18, 50 Port Collar on top of 5 Set @ 2540 run casing to bottom pump ball down - circ 30 min pump 5bbl H_2O, mud flush, 5bbl water mix 220 sks down Center shut down release plug clean pumps lines displace with 112 1/2 bbl fresh water 1250# final lift plug landed @ 780# released back - float held

30 sks RH

Thank you Jerry & crew

ACCOUNT CODE	QUANITY 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	230 250 sks	thixoblend III	26.00	5980.00 6500.00
CC6077	1250	Kolseal	.50	625.00
CC6125	1250 500 gal	mud flush	.65	325.00
CP8485	1	5½ AFU float shoe	585.00	585.00
CP8254	1	5½ latch down assy	400.00	400.00
CP8554	5	5½ centralizers	81.00	405.00
CP8629	5	5½ baskets	385.00	1925.00
CP8776	1	5½ Port Collar	2850.00	2850.00
			subtotal	16626.50
			-30%	4987.95
			subtotal	11638.55
			SALES TAX	733.32
			ESTIMATED TOTAL	12371.87

12.3%

Ravin 3737

AUTHORIZTION _____ TITLE _____ DATE _____

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DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63886 **DST#: 1**

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

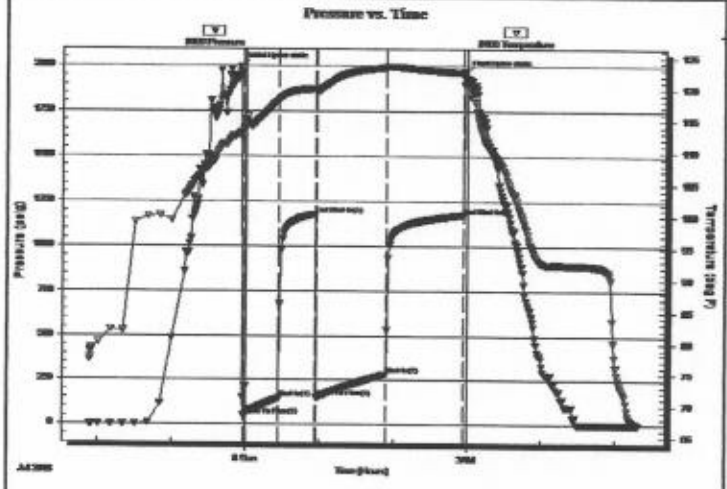
Interval: 4070.00 ft (KB) To 4120.00 ft (KB) (TVD)
Total Depth: 4120.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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

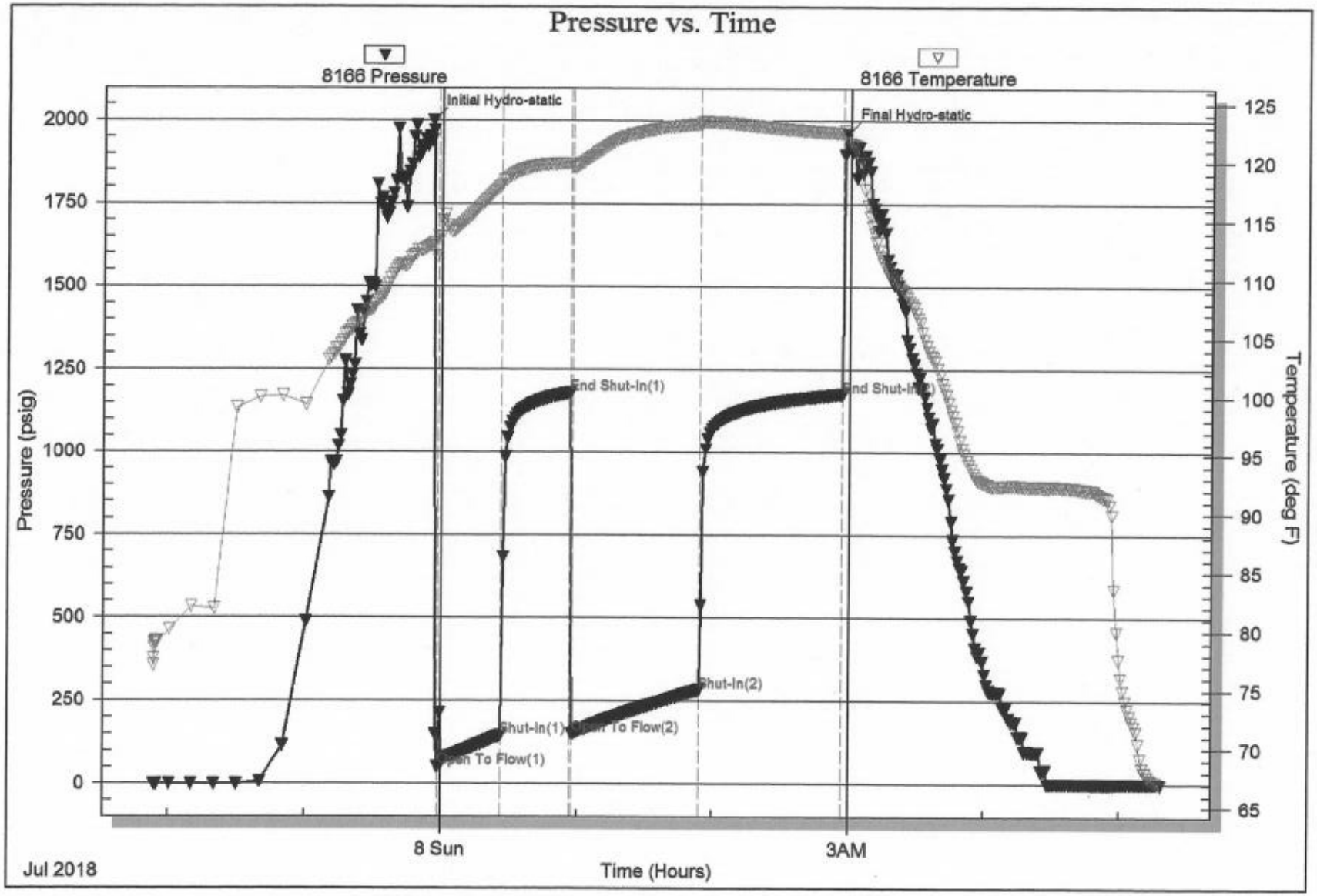
Gas Rates

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

Total 7.74 BBL
2,035' oil
5,705' WTR

185 TOTAL / 24 HR 48.6 oil / 24 HR 136.4 wtr / 24 HR

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 1



Triobite Testing, Inc Ref. No: 63886 Printed: 2018.07.08 @ 05:25:36

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63887 **DST#: 2**

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

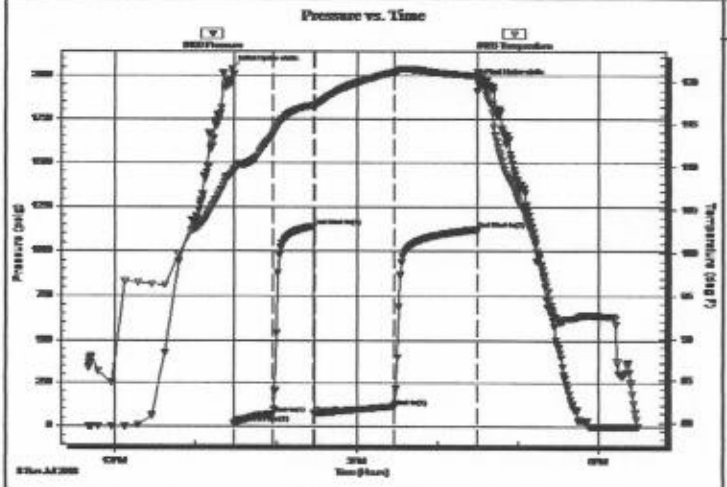
Reference Elevations: 3060.00 ft (KB)
3053.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8166 **Inside**

Press@RunDepth: 114.02 psig @ 4116.00 ft (KB)
Start Date: 2018.07.08 End Date: 2018.07.08
Start Time: 11:40:14 End Time: 18:29:14

Capacity: 8000.00 psig
Last Calib.: 2018.07.08
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

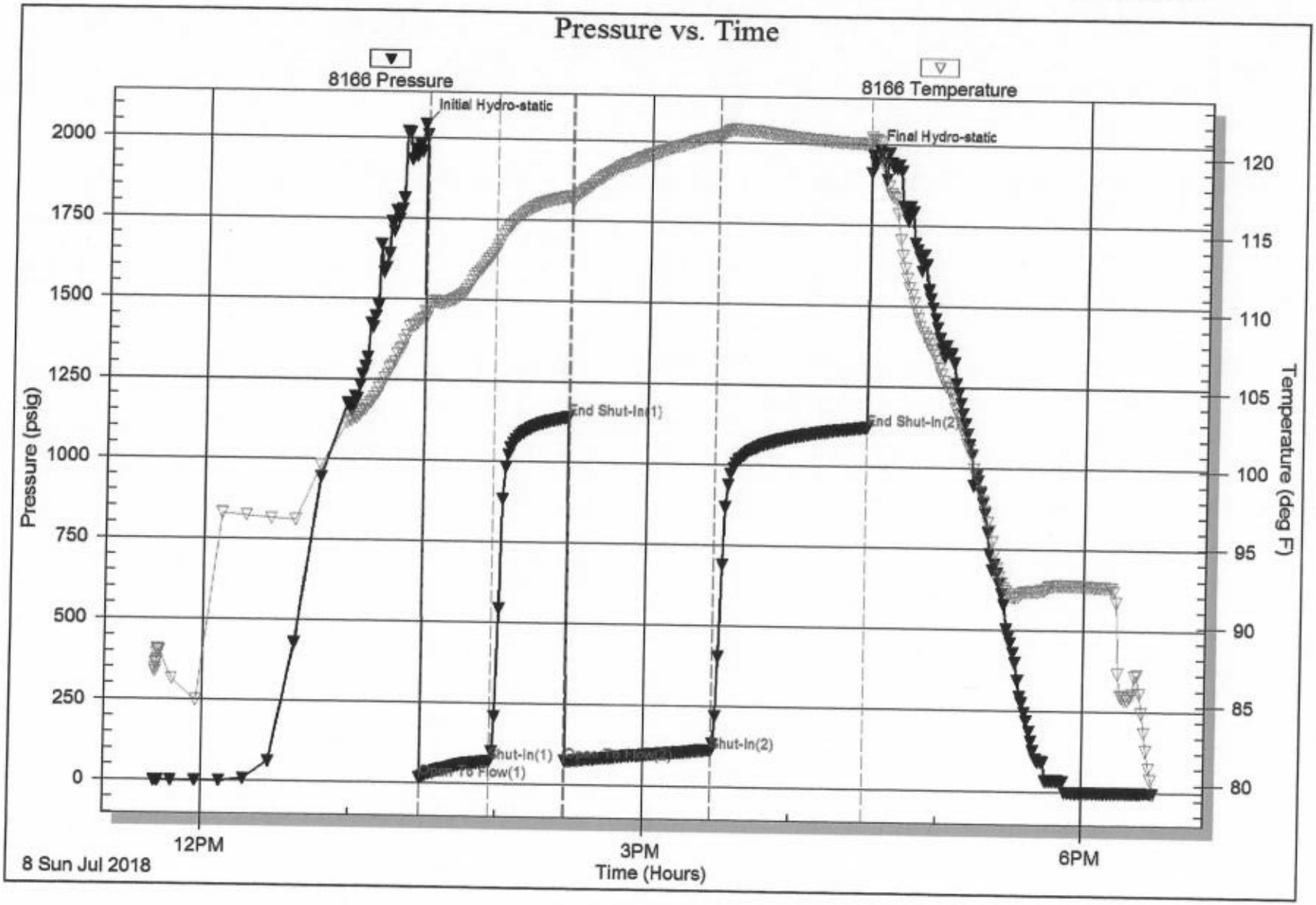
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

.04 / 1.32 / 1.36 oil

.39 / .67 / 1.06 wtr

2.42 total / 56% oil / (58 BBL/DAY) TF / (32 BBL/DAY OIL)

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63887 Printed: 2018.07.08 @ 18:33:27

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63888 **DST#: 3**

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

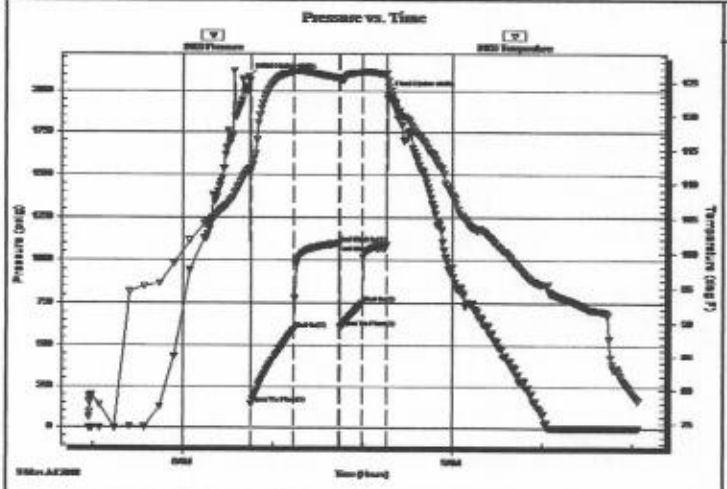
Interval: 4175.00 ft (KB) To 4220.00 ft (KB) (TVD)
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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
Start Time: 04:57:23 End Time: 11:03:53

Capacity: 8000.00 psig
Last Calib.: 2018.07.09
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

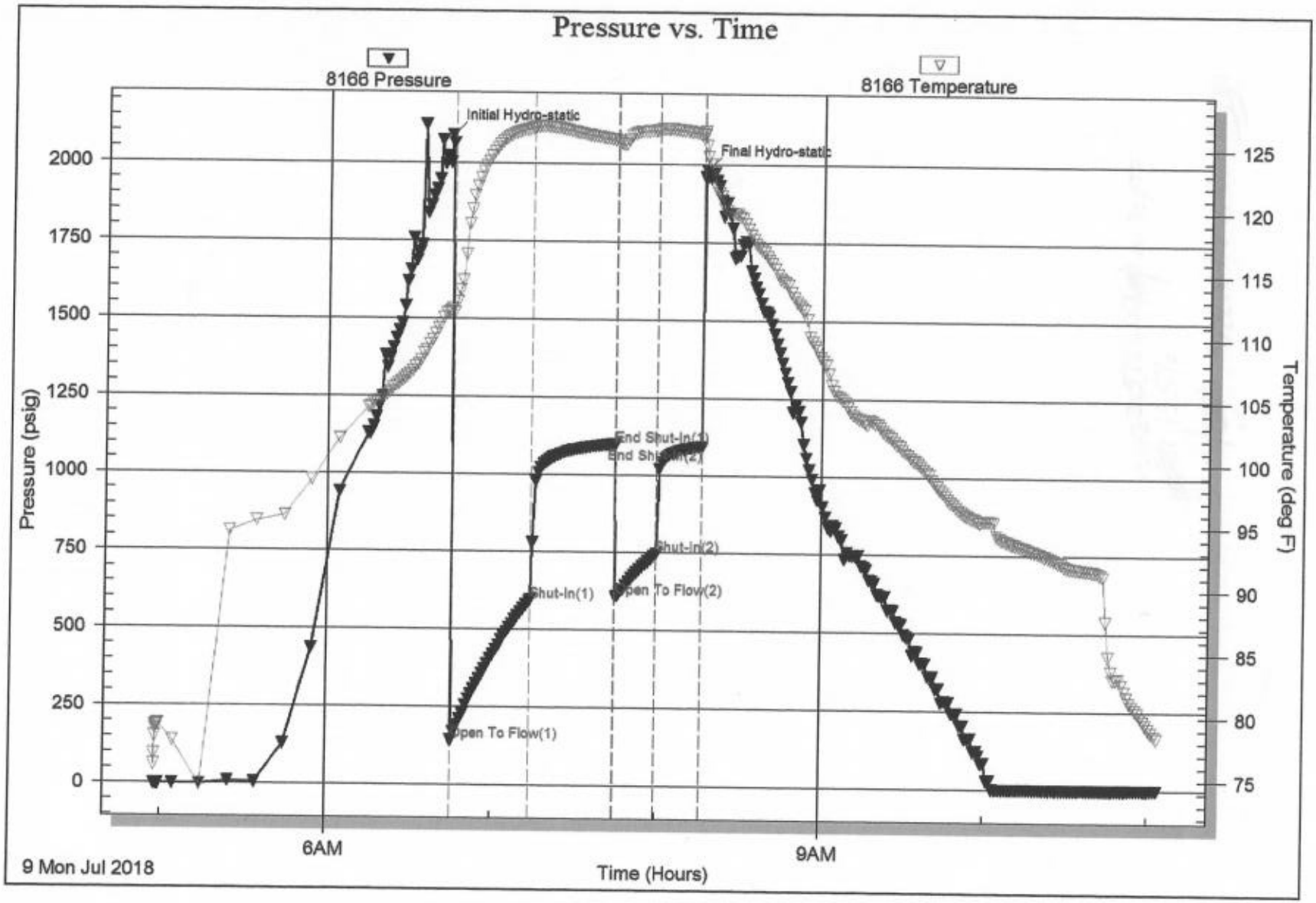
* Recovery from multiple tests

Gas Rates

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

TOTAL 22.57 BBLS IN TEST =
15.5%
30.09/HR = 722.24 X 15.5% = 111980

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63888 Printed: 2018.07.09 @ 11:14:56

DRILL STEM TEST REPORT

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63889 **DST#: 4**

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

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

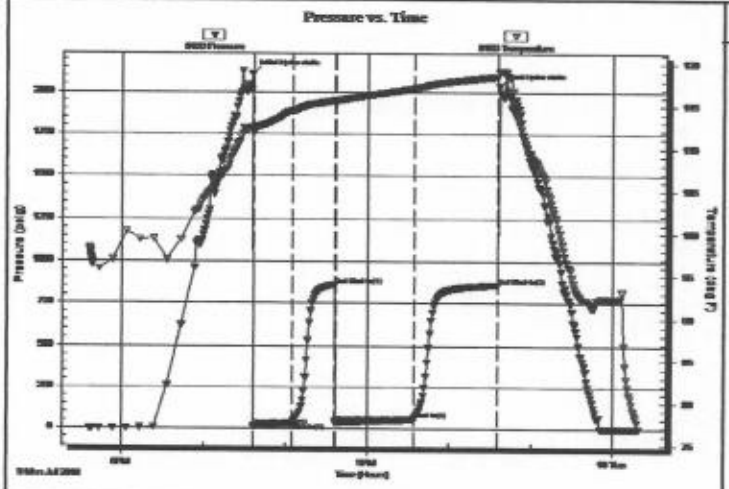
Interval: 4220.00 ft (KB) To 4240.00 ft (KB) (TVD)
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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 Btm: 2018.07.09 @ 19:35:30
Time Off Btm: 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

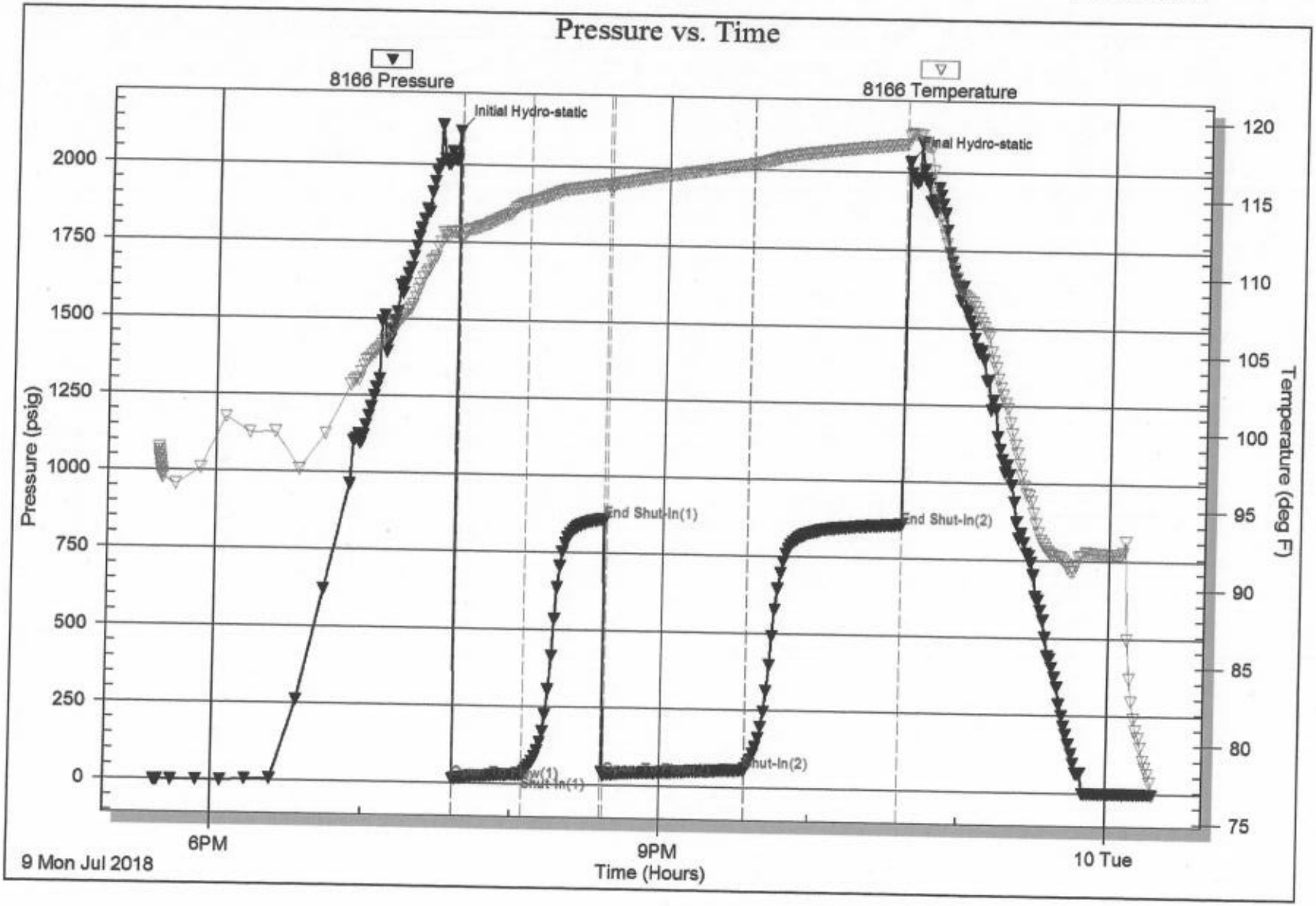
Length (ft)	Description	Volume (bbl)
90.00	gocm 30%g 20%o 50%m	0.44
0.00	220 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 63889 Printed: 2018.07.10 @ 00:22:46

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63890 **DST#: 5**

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

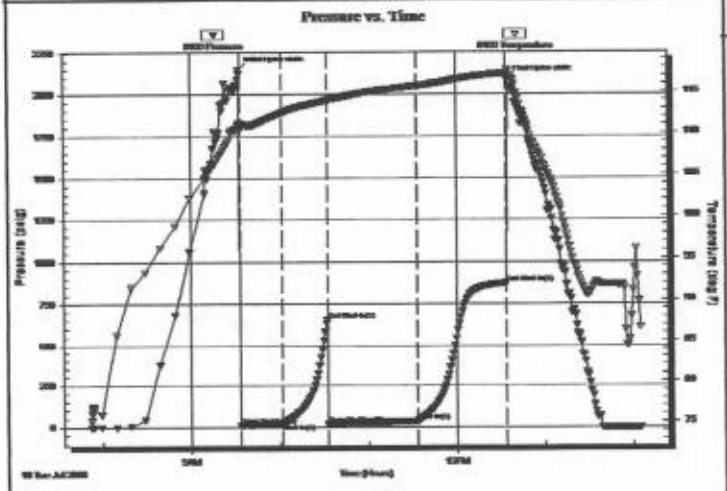
Reference Elevations: 3060.00 ft (KB)
3053.00 ft (CF)
KB to GR/CF: 7.00 ft

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

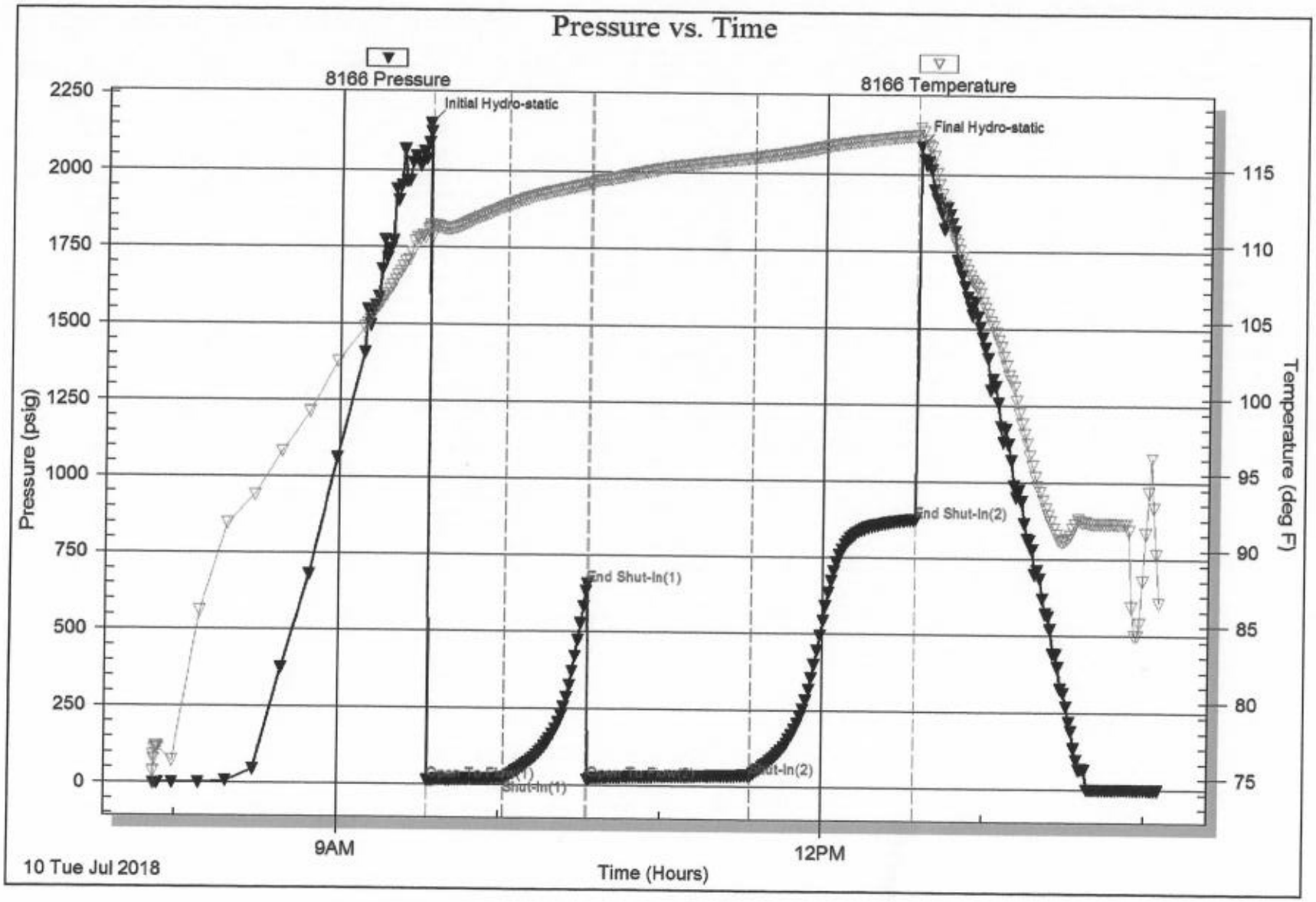
Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 30%o 60%m	0.30
1.00	free oil 100%o	0.00
0.00	380 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166 Inside Blake Exploration Schmitt #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

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63891 **DST#: 6**

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

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

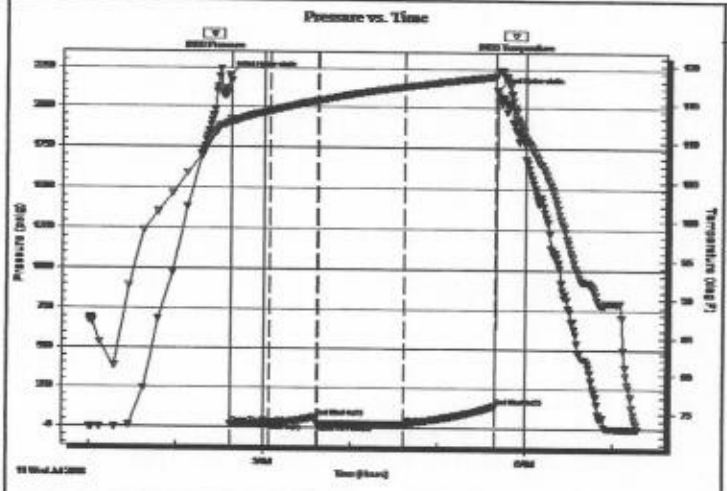
Interval: 4295.00 ft (KB) To 4340.00 ft (KB) (TVD)
Total Depth: 4340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

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
Start Time: 01:00:04 End Time: 07:17:04

Capacity: 8000.00 psig
Last Calib.: 2018.07.11
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

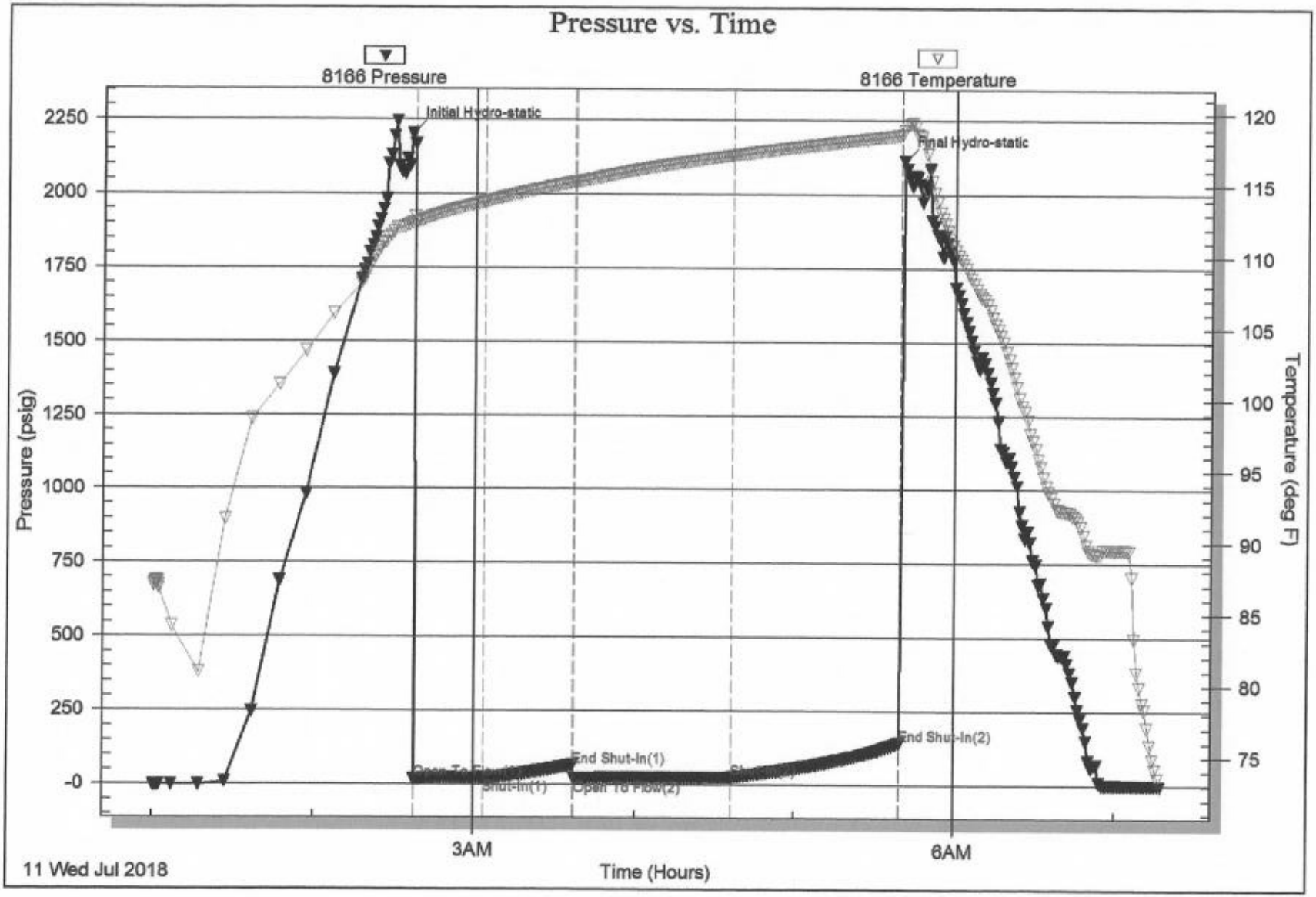
Length (ft)	Description	Volume (bbl)
31.00	gocm 10%g 20%o 70%m	0.15
0.00	157 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 63891 Printed: 2018.07.11 @ 07:21:18

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

Job Ticket: 63892 **DST#: 7**

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

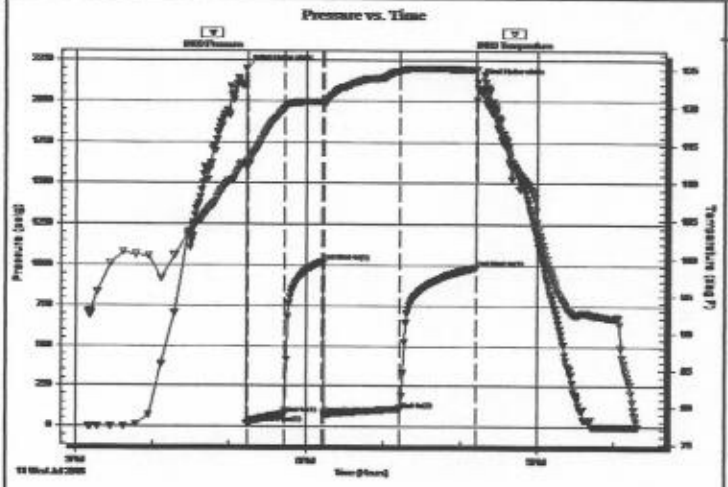
Interval: 4325.00 ft (KB) To 4373.00 ft (KB) (TVD)
Total Depth: 4373.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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

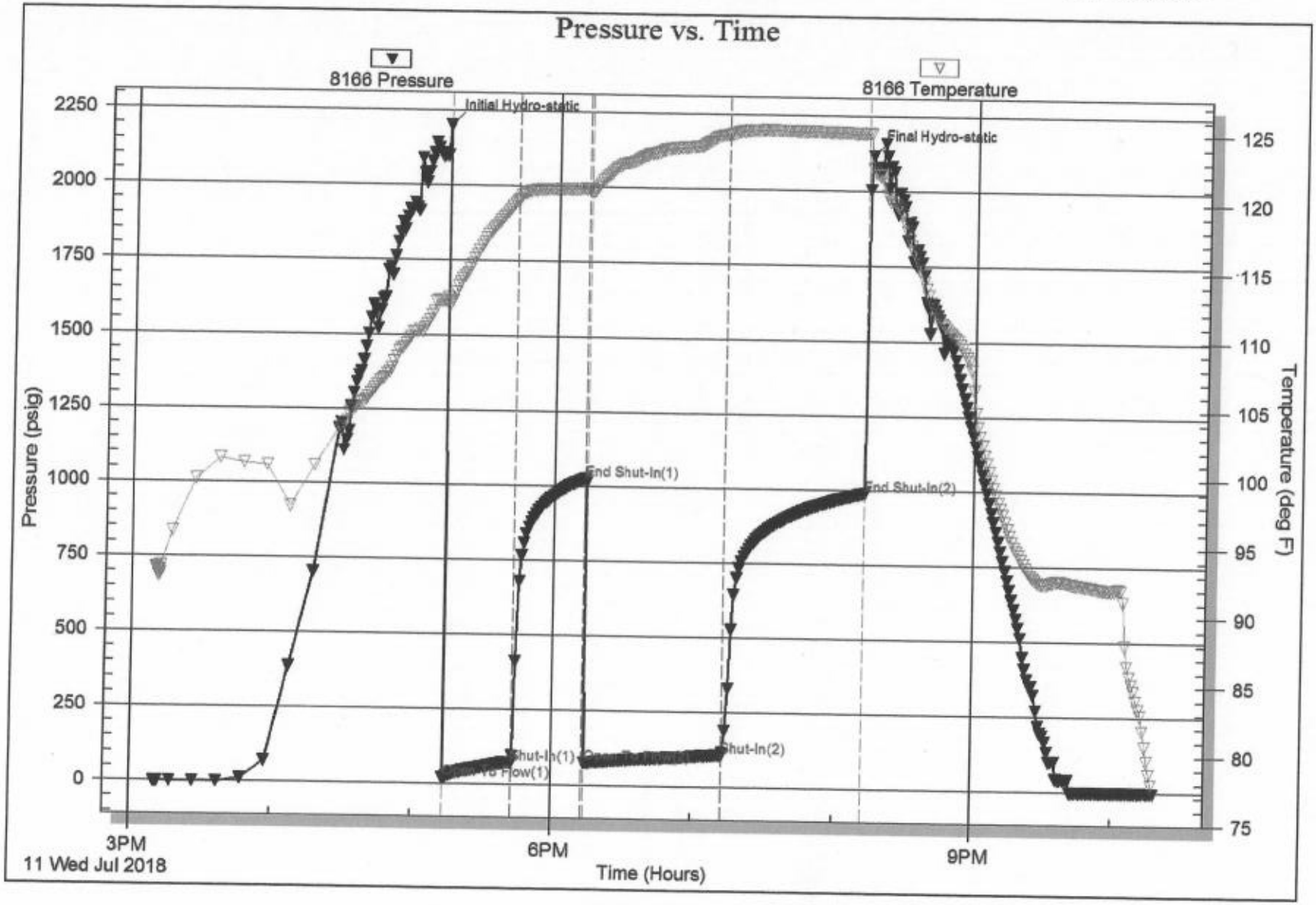
Length (ft)	Description	Volume (bbl)
126.00	mcw 80%w 20%m	0.67
78.00	w cm 30%w 70%m	1.09

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 7



Trilobite Testing, Inc Ref. No: 63892 Printed: 2018.07.11 @ 22:24:28

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

201 S Main
Bogue, Ks 67625

ATTN: Mike Davignon

11-11s-32w Logan, KS

Schmitt #1

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

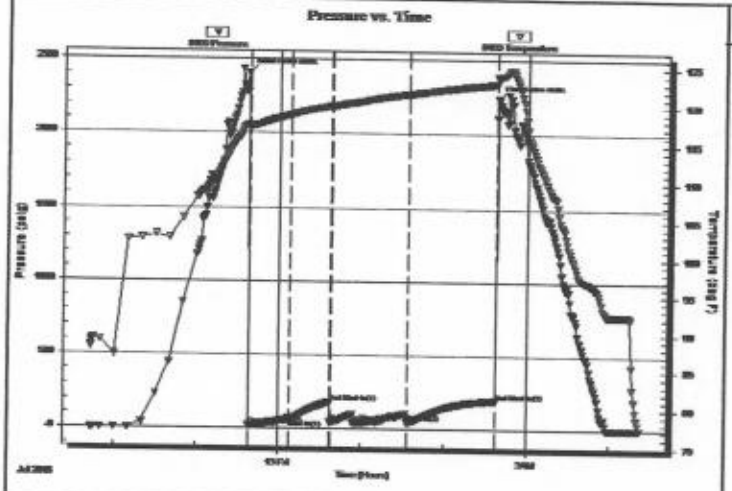
Interval: 4565.00 ft (KB) To 4610.00 ft (KB) (TVD)
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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
Start Time: 21:43:09 End Time: 04:22:09

Capacity: 8000.00 psig
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

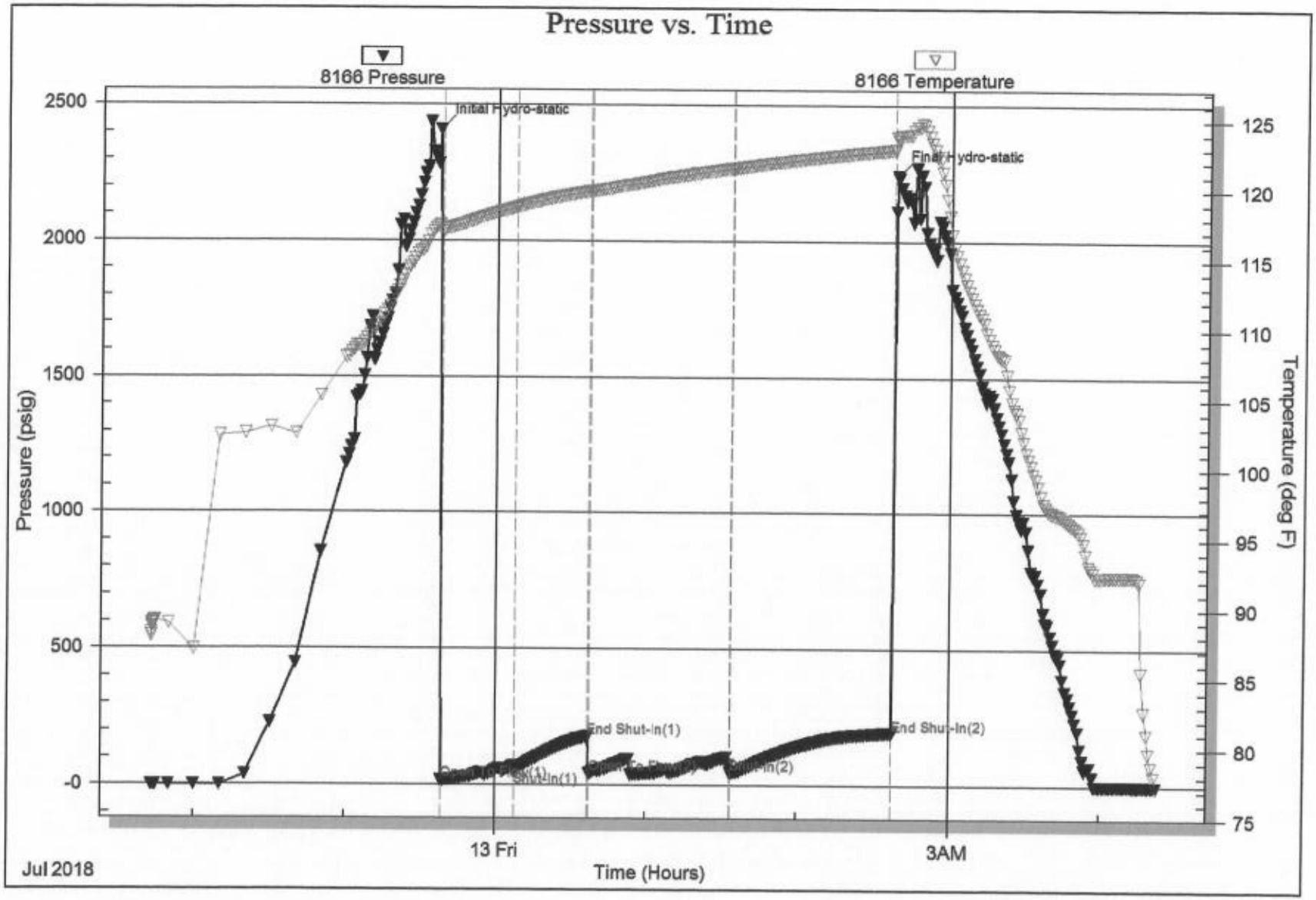
Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 10%o 80%m	0.30
20.00	ocm 5%o 95%m	0.10
0.00	126 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

Serial #: 8166 Inside Blake Exploration Schmitt #1 DST Test Number: 8



Trilobite Testing, Inc Ref. No: 63893 Printed: 2018.07.13 @ 04:27:04