

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Customer	DIXON OPERATING	Lease No.		Date	7-27-2018
Lease	EDNA MAE	Well #	1-4		
Field Order #	110994	Station	PRATT, KS.	Casing	5 1/2" TD
Type Job	5 1/2" LONG STRING	Formation		Depth	3000'
				County	STAFFORD
				State	Ks
				Legal Description	4-235-12W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	5 1/2" x 17"	Shots/Ft	CMT-	Annulus	175SK AA2	RATE	PRESS	ISIP
Depth	3716'	From	To	Pre Pad	@ 1.43 CUFT ³	Max		5 Min.
Volume	88 BBL	From	To	Pad		Min		10 Min.
Max Press	2000	From	To	Frac		Avg		15 Min.
Well Connection		From	To			HHP Used		Annulus Pressure
Plug Depth	3774.75'	From	To	Flush	87.5 BBL	Gas Volume		Total Load

Customer Representative	D. DIXON	Station Manager	J.W.	Treater	K. LESLEY
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Service Units	86531	84980	20920	70959	73708				
Driver Names	LESLEY	MARQUEZ		DIAZ					
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log				
6:30 AM					ON LOCATION - SAFETY MEETING				
10:00 AM					RUN 90 STS. 5 1/2" x 17" CSG.				
					TURBO - 3, 4, 5, 6, 7, 9, 10, 11, 13, 16				
					BASKET - BOTTOM OF #3				
12:15 PM					CSG. ON BOTTOM				
12:30 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG				
1:45 PM	400		5	6	H ₂ O AHEAD				
1:46 PM	400		12, 5	6	MUD FLUSH / H ₂ O SPACER				
1:47 PM	400		7	6	MIX 25 SK SPAVENGER @ 13 PPG				
1:50 PM	300		32	6	MIX 175SK AA2 @ 15 PPG				
2:07 PM					SHUTDOWN - CLEAR PUMP & LINE / DRUPL. D. PLUG				
2:12 PM	10		0	6	START DISPLACEMENT				
2:22 PM	300		62	5	LIFT PRESSURE				
2:26 PM	1000		75	4	SLOW RATE / KICK OUT ROTATION				
2:30 PM	1500		87.5	3	PLUG DOWN - HELD				
					CIRC. THRU JOB				
2:45 PM			7.5	2	PLUG R.H. & M.H.				
					JOB COMPLETE				
					THANKS -				
					KEVIN LESLEY				

BASIC

energy services, L.P.

TREATMENT REPORT

Customer DIXON OPERATING	Lease No.	Date 7-18-2018
Lease EDNA MAE	Well # 1-4	
Field Order # 16992	Station PRATT, KS.	Casing 5 5/8"
Type Job 8 5/8" S.P.	Formation TD	Depth 310'
	County STAFFORD	State KS.
		Legal Description 4-235-12W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8" x 2 1/2"	Tubing Size 3 1/2"	Shots/Ft 350 SK		Pre Pad 10/40 P02 @ 1.21 CUFT		RATE	PRESS	ISIP
Depth 306.5'	Depth	From	To	Pad	Max			5 Min.
Volume 14.5 BBL	Volume	From	To	Frac	Min			10 Min.
Max Press 500	Max Press	From	To		Avg			15 Min.
Well Connection PIC.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 280.5'	Packer Depth	From	To	Flush 18.2 BBL	Gas Volume			Total Load

Customer Representative T. DIXON	Station Manager J.W.	Treater K. LESLEY
Service Units 86531	834980	20980
Driver Names LESLEY	MARQUEZ	FRANKLIN

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00 PM	7-18-18				ON LOCATION - SAFETY MEETING
12:45 AM	7-19-18				RUN 7 JTS. 24" x 8 5/8" CSG.
1:30 AM					CSG. ON BOTTOM
1:40 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
2:00 AM			5	5	H2O AHEAD
2:05 AM			75.5	5	MIX 350 SKS. 10/40 P02 @ 14.8 PPG
2:20 AM					SHUTDOWN / DROP WOODEN PLUG
2:24 AM			0	5	START DISPLACEMENT
2:25 AM			5	4	LIFT PRESSURE
2:28 AM			14	3	SLOW RATE
2:30 AM			18.2	3	PLUG @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 15 BBL TO PIT
					JOB COMPLETE,
					THANKS =
					KEVIN LESLEY

Mud-Co / Service Mud Inc.

Operator Dixon Operating County Stafford State Kansas Pump 6 X 16 X 60 SP/M Casing Program 8 5/8" @ 306 ft.
 Well Edna Mae #1-4 Location Sec 4 TWP 23S RNG 12W D.P. 4.5 in. GPM 218 FT/MIN R.A. " @ " ft.
 Contractor Murfin #24 Date 7/18/2019 Engineer Rick Hughes Collar 6.25 in. 430 ft. 396 FT/MIN R.A. Total Depth 3800 ft.
 Stockpoint Pratt, Ks.

DATE	DEPTH	WEIGHT	Sec API	PV	Yp	GELS	pH	FILTRATION	CI	Ca	SAND	RETORT	L.C.M.	Pump	CUMULATIVE	REMARKS AND TREATMENT																																																																		
	feet	lb/gal	@_F	@_F		10 sec / 10 min.	Slip Meter	ml API	Cake 32nds	Pres. #BBL	%	Sulfit %	Oil %	Water %	PSI	COST																																																																		
7/18	0															0	RURT																																																																	
7/19	360		W	A	T	E	R	N/C	-	108M	Hvy	8.5		91.5		1,137	Drg.																																																																	
7/20	2039	10.4	33	4	7	0/0	7.0					4.8		95.2		5,126	Drg.	Displaced @ 2670																																																																
7/21	3113	9.0	63	19	21	12/28	11.0	8.8	2	3,100	30	6.0		94.0		8,024	Bit Trip																																																																	
7/22	3388	9.2	72	21	23	17/67	8.5	9.6	2	8,000	40	4.3		95.7		8,531	DST #1	DST #1 @ 3388																																																																
7/23	3490	9.0	89	10	39	47/56	8.5	12.8	4	12,600	160	4.1		95.9		10,291	TOH w/DST #2	DST #2 @ 3490																																																																
7/24	3595	9.0	89	10	44	45/52	9.5	14.6	4	15,2M	100	4.5		95.5		12,037	Drg.	DST #3 @ 3354																																																																
7/25	3664	9.1	52	6	33	35/42	8.5	24.8	6	20M	280	3.6		96.4		12,162	DST #5	DST #4 @ 3616																																																																
7/25	3676	8.9	53	11	18	21/48	11.0	11.2	3	11.9M	60	4.3		95.7		14,118	CFS	Recommended treatment																																																																
7/26	3712	9.0	60	11	20	22/66	10.5	11.6	3	13M	60	4.4		95.6		15,044	TIH w/Bit	not added after DST #4																																																																
7/27	3800	9.0	68	16	20	15/87	11.0	10.4	2	11.1M	50					15,517	Final:	Only partial treatment added																																																																
LTD - 3798'. 6 DST's. Run Casing. Mini displacement after DST 5 DST #6 @ 3712																																																																																		
Reserve Pit. Chl content ppm: <u>39,000</u> Estimated Volume: <u>1200</u> bbls																																																																																		
Materials <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Materials</th> <th>Sacks</th> <th>Amount</th> <th>Materials</th> <th>Sacks</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>C/S HULLS</td> <td>78</td> <td>1301.82</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CAUSTIC SODA</td> <td>33</td> <td>2063.16</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DRILL PAK</td> <td>12</td> <td>3682.8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>LIME</td> <td>5</td> <td>51.15</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PREMIUM GEL</td> <td>442</td> <td>7562.62</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SODA ASH</td> <td>19</td> <td>456.76</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUPER LIG</td> <td>15</td> <td>399</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL MUD COST</td> <td></td> <td></td> <td></td> <td></td> <td>15517.31</td> </tr> <tr> <td>TRUCKING COST</td> <td></td> <td></td> <td></td> <td></td> <td>1423.18</td> </tr> <tr> <td>TOTAL COST</td> <td></td> <td></td> <td></td> <td></td> <td>16940.49</td> </tr> </tbody> </table>																	Materials	Sacks	Amount	Materials	Sacks	Amount	C/S HULLS	78	1301.82				CAUSTIC SODA	33	2063.16				DRILL PAK	12	3682.8				LIME	5	51.15				PREMIUM GEL	442	7562.62				SODA ASH	19	456.76				SUPER LIG	15	399				TOTAL MUD COST					15517.31	TRUCKING COST					1423.18	TOTAL COST					16940.49
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MUD-CO / SERVICE MUD INC.
 100 S. Main Suite #310
 Wichita, Ks. 67202
 316/264-2814 Fax: 316/264-5024
DRILLING MUD RECAP

OPERATOR
Dixon Operating Company, LLC
Address: 8100 E. 22nd st N #300
Wichita, KS 67226

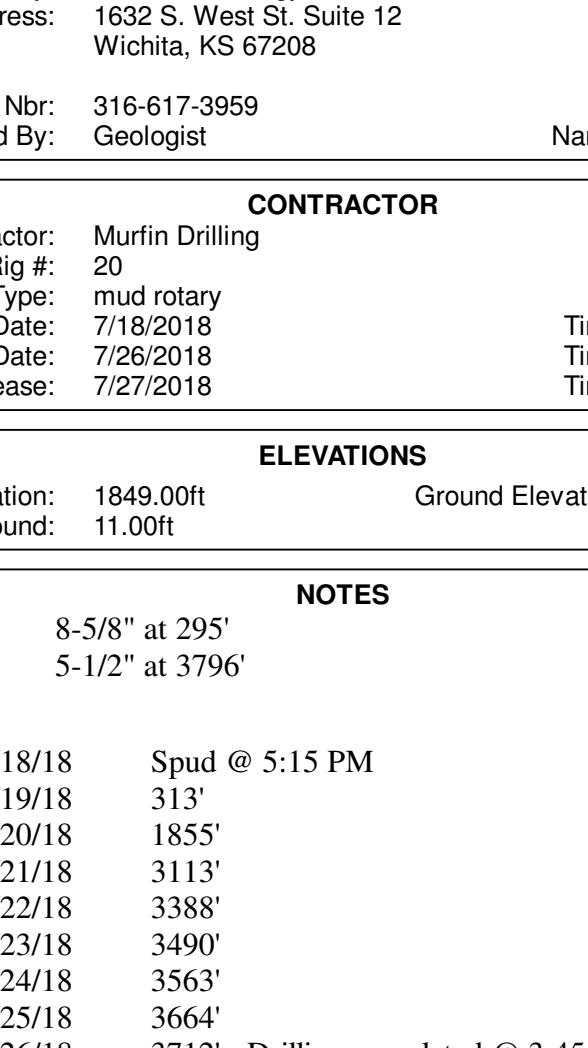
Contact Geologist:
Contact Phone Nbr:
Well Name:
Location:
Pool:
State:

#1-4 Edna Mae
Section 4-23S-12W
API: 15-185-24023
Field: Rattlesnake Creek
Country: USA

Scale 1:240 Imperial
Well Name: #1-4 Edna Mae
Surface Location: Section 4-23S-12W
Bottom Location: API: 15-185-24023
License Number: 7/18/2018
Spud Dates: Region: Stafford County Time: 5:15 PM
Drilling Completed: 7/26/2018 Time: 3:45 PM
Surface Coordinates: 990' FSL & 330' FEL
Bottom Hole Coordinates:
Ground Elevation: 1838.00ft
K.B. Elevation: 1849.00ft
Logged Interval: 2700.00ft To: 3800.00ft
Total Depth: 3800.00ft
Formation:
Drilling Fluid Type: Chemical (MudCo)

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 990' FSL
Latitude: 330' FEL
E/W Co-ord:
N/S Co-ord:



Company: TerraTech Energy Service LLC.
Address: 1832 S. West St. Suite 12
Wichita, KS 67208
Phone Nbr: 316-617-3959
Logged By: Geologist Name: Bruce Reed

CONTRACTOR

Contractor: Murfin Drilling
Rig #: 20
Rig Type: mud rotary
Spud Date: 7/18/2018 Time: 5:15 PM
TD Date: 7/26/2018 Time: 3:45 PM
Rig Release: 7/27/2018 Time: 3:00 PM

ELEVATIONS

K.B. Elevation: 1849.00ft Ground Elevation: 1838.00ft
K.B. to Ground: 11.00ft

NOTES

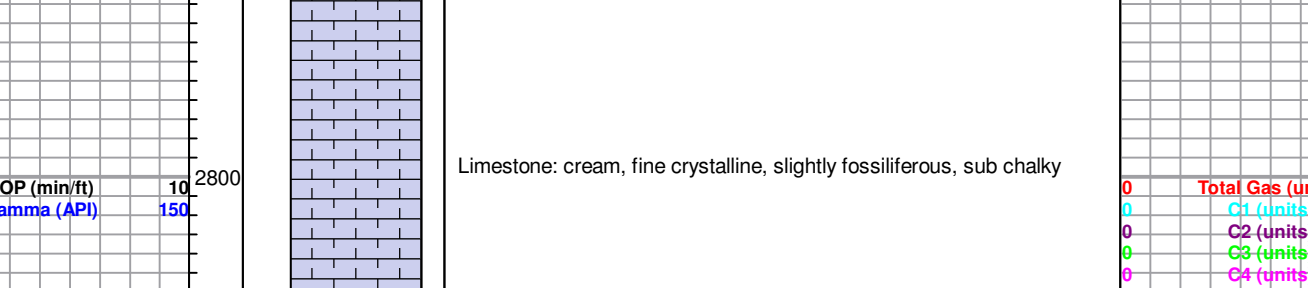
Surface Casing: 8-5/8" at 295'
Production Casing: 5-1/2" at 3796'
Daily Penetration: 07/18/18 Spud @ 5:15 PM
07/19/18 313'
07/20/18 1855'
07/21/18 3113'
07/22/18 3388'
07/23/18 3490'
07/24/18 3563'
07/25/18 3664'
07/26/18 3712' Drilling completed @ 3:45 PM
07/27/18 3800' Plug down @ 3:00 PM
DRILL STEM TESTS
DST #1 3310' to 3386' L/KC. Strong blow, BOB in 10 seconds, GTS in 3 minutes, spray fluid in 20 minutes during the initial flow period. Strong blow, BOB in 1 minute, spray fluid in 12 minutes during the second flow period. Gas was gauged at 727 Mcf/d and at 1,173 Mcf/d by the end of each flow period.
Recovered: 70' Clean Gassy Oil, 60' OMCW (30% oil, 60% water, 10% mud), 180' OMCW (10% oil, 80% water, 10% mud), 340' MCW (90% water, 10% mud).
IFP: 30" 30-29 psi, ISIP: 60" 1192 psi, FFP: 30" 333-569 psi, FSIP: 90" 1163 psi
DST #2 3432' to 3490' L/KC. Strong blow, BOB in 10 seconds, GTS in 1 minute during the initial flow period. Strong blow, BOB immediately during the second flow period. Gas was gauged at 1,592 Mcf/d and at 1,519 Mcf/d by the end of each flow period.
Recovered: 40' GOCM (10% gas, 10% oil, 80% mud), 100' GOCM (30% gas, 10% oil, 60% mud), 100' HGOCM (30% gas, 30% oil, 40% mud).
IFP: 30" 234-300 psi, ISIP: 60" 1135 psi, FFP: 60" 257-285 psi, FSIP: 90" 1126 psi
DST #3 3490' to 3554' L/KC. Strong blow, BOB in 30 seconds, GTS in 25 minutes, TSTM, during the initial flow period. Strong blow, BOB in 2 minutes, GTS in 5 minutes, TSTM, during the second flow period.
Recovered: 300' Clean Gassy Oil (30% gas, 70% oil), 200' GO (85% gas, 15% oil), 200' MO (50% oil, 50% mud).
IFP: 30" 76-149 psi, ISIP: 60" 1051 psi, FFP: 60" 154-251 psi, FSIP: 90" 966 psi
DST #4 3574' to 3616' Viola. Fair blow, BOB in 20 minutes during the initial flow period. Fair blow, BOB in 15 minutes during the second flow period.
Recovered: 300' GIP, 20' GOCM (10% gas, 10% oil, 80% mud).
IFP: 30" 38-29 psi, ISIP: 60" 130 psi, FFP: 60" 35-37 psi, FSIP: 90" 123 psi
DST #5 3616' to 3664' Viola. Fair blow, BOB in 19 minutes during the initial flow period. Fair blow, BOB in 20 minutes during the second flow period.
Recovered: 600' GIP, 20' GSOCM (100% gas, 2% oil, 88% mud), 60' GHOCM (10% gas, 35% oil, 55% mud).
IFP: 30" 23-34 psi, ISIP: 60" 396 psi, FFP: 60" 43-55 psi, FSIP: 90" 799 psi
DST #6 3705' to 3712' Arbuckle. Weak blow that built to 5-1/2 inches during the initial flow period. Weak blow that built to 3/4 inches during the second flow period.
Recovered: 10' OSM
IFP: 30" 31-20 psi, ISIP: 30" 37 psi, FFP: 30" 21-19 psi, FSIP: 30" 33 psi

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3147'	-1298	3144'	-1295	+5
Brown Lime	3278'	-1429	3276'	-1427	+9
Lansing	3305'	-1456	3303'	-1454	+10
Stark	3496'	-1647	3492'	-1643	+7
Base KC	3549'	-1700	3547'	-1698	+7
Viola	3585'	-1736	3584'	-1735	+21
Simpson	3665'	-1816	3662'	-1813	+2
Arbuckle	3702'	-1853	3700'	-1851	+12

*Ben Richards, #1 R.B. Dale, SE SE Section 4-23S-12W, Stafford County, Kansas

ROCK TYPES

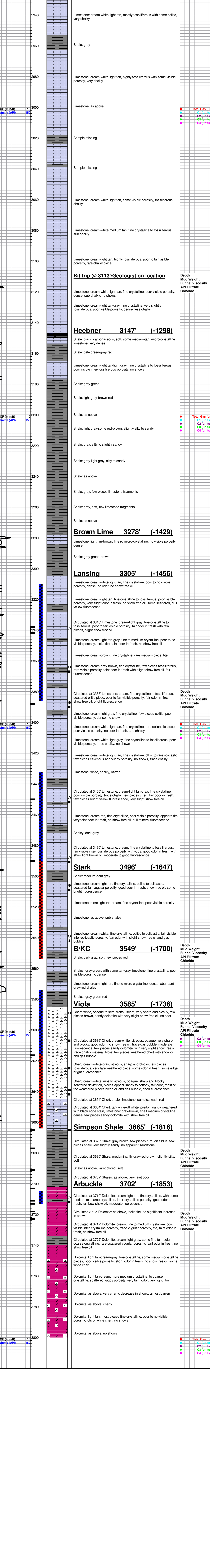


ACCESSORIES

MINERAL
Dolomitic
Chert White

OTHER SYMBOLS

Oil Show
Good Show
Fair Show
Poor Show
Spotted or Trace
Dead Oil Stn
Fluorescence
Gas
DST Int
DST alt
Core
Well pipe





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

GENERAL INFORMATION:

Formation: **LKC 'A-F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:51:00

Time Test Ended: 14:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3310.00 ft (KB) To 3388.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3388.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 569.94 psig @ 3314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.22

End Date: 2018.07.22

Last Calib.: 2018.07.22

Start Time: 03:46:15

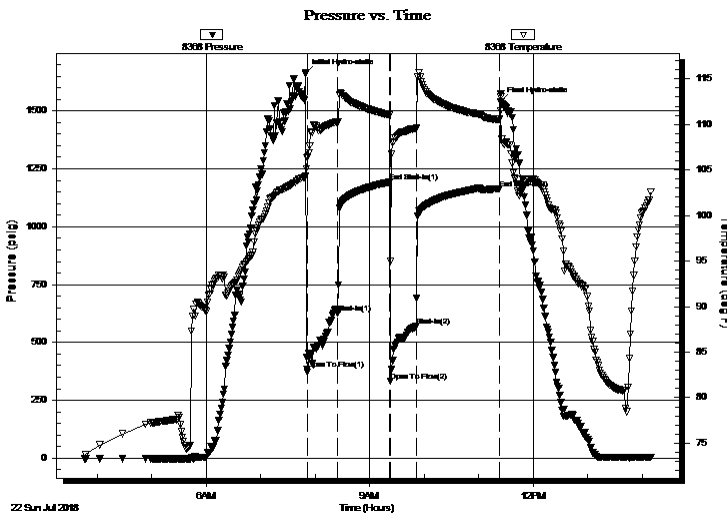
End Time: 14:09:30

Time On Btm: 2018.07.22 @ 07:49:15

Time Off Btm: 2018.07.22 @ 11:24:15

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 sec ; GTS 3 min ; Spitting Fluid in 20 min
60-ISI-Bled Off
30-FF-Strong Blow ; BOB in 1 min ; Spitting Fluid in 12 min
90-FSI-Bled Off

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.33	104.34	Initial Hydro-static
2	385.10	106.33	Open To Flow (1)
36	626.28	110.24	Shut-In(1)
93	1192.07	111.00	End Shut-In(1)
94	333.81	94.97	Open To Flow (2)
122	569.94	109.58	Shut-In(2)
214	1163.73	110.57	End Shut-In(2)
215	1538.52	111.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MCW 10%M 90%W	3.32
180.00	MCOw 10%M 10%O 80%W	2.55
60.00	MCOw 10%M 30%O 60%W	0.85
70.00	GO 40%G 60%O	0.99

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.88	23.00	802.80
Last Gas Rate	0.88	40.25	1173.08
Max. Gas Rate	0.88	40.25	1173.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

4-23S-12W Stafford KS

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

GENERAL INFORMATION:

Formation: **LKC 'A-F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:51:00

Time Test Ended: 14:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3310.00 ft (KB) To 3388.00 ft (KB) (TVD)**

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3388.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches

Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 9120

Inside

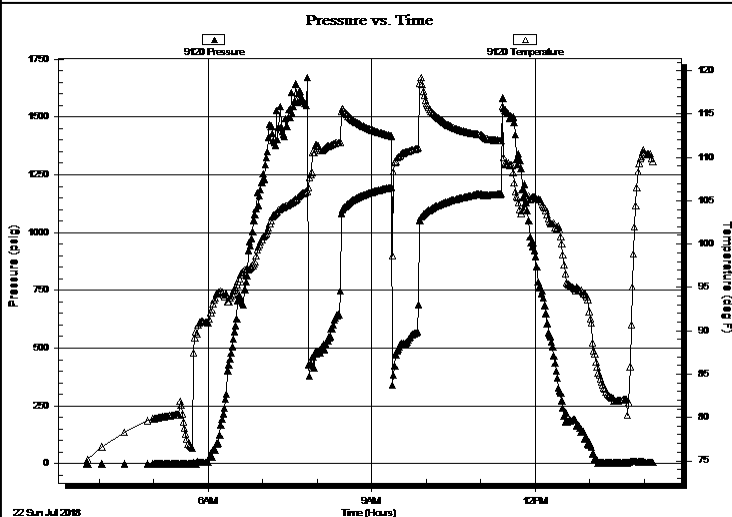
Press@RunDepth: psig @ 3314.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2018.07.22 End Date: 2018.07.22 Last Calib.: 2018.07.22

Start Time: 03:46:15 End Time: 14:09:30 Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 sec ; GTS 3 min ; Spitting Fluid in 20 min
60-ISI-Bled Off
30-FF-Strong Blow ; BOB in 1 min ; Spitting Fluid in 12 min
90-FSI-Bled Off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MCW 10%M 90%W	3.32
180.00	MCOW 10%M 10%O 80%W	2.55
60.00	MCOW 10%M 30%O 60%W	0.85
70.00	GO 40%G 60%O	0.99

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.88	23.00	802.80
Last Gas Rate	0.88	40.25	1173.08
Max. Gas Rate	0.88	40.25	1173.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 42 deg API
Water Salinity: 53000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	MCW 10%M 90%W	3.320
180.00	MCOW 10%M 10%O 80%W	2.552
60.00	MCOW 10%M 30%O 60%W	0.851
70.00	GO 40%G 60%O	0.992

Total Length: 650.00 ft Total Volume: 7.715 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

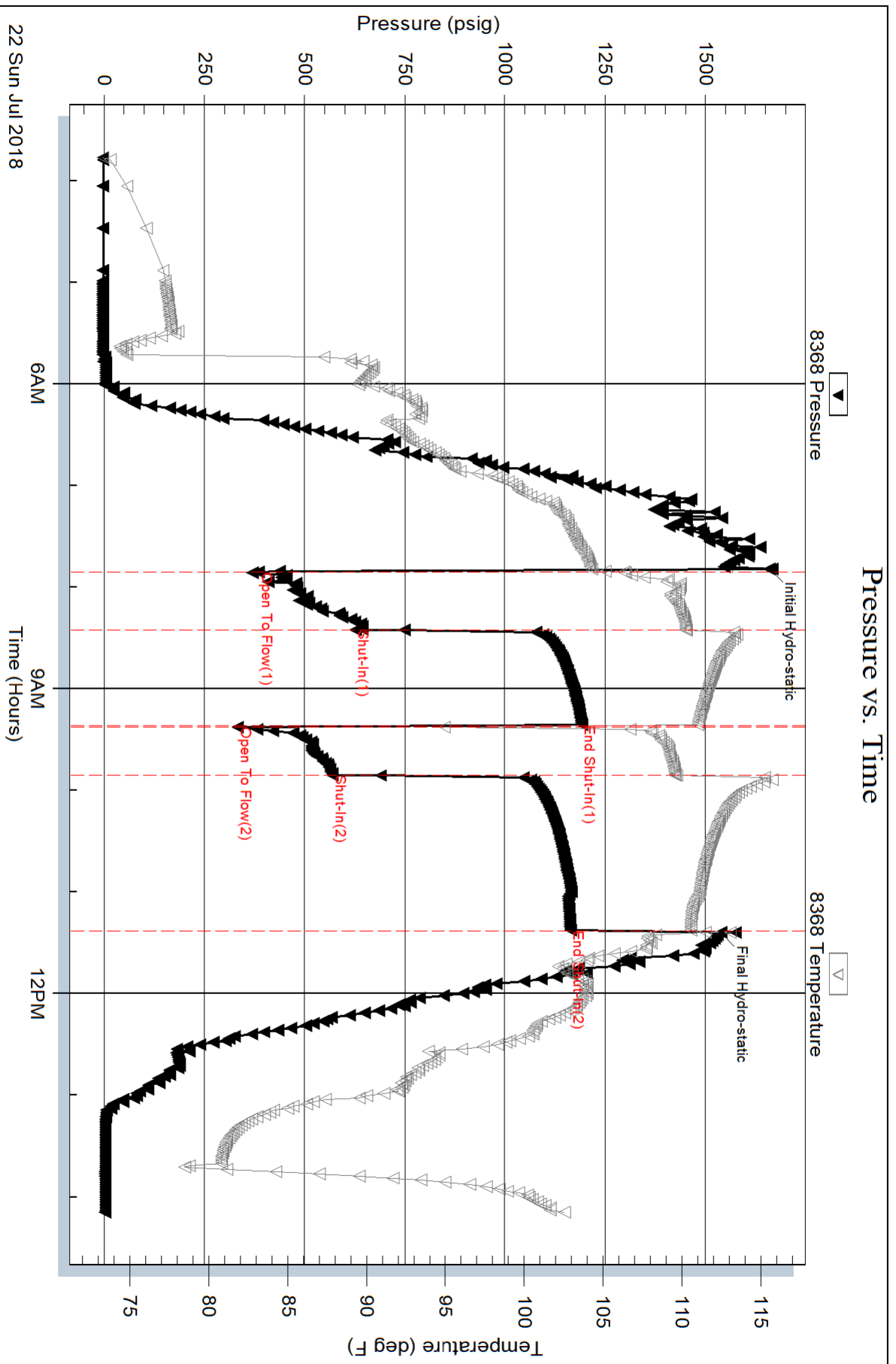
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	5	0.88	23.00	802.80
1	10	0.88	21.50	770.60
1	20	0.88	20.00	738.40
1	30	0.88	19.50	727.67
2	5	0.88	36.00	1081.85
2	10	0.88	28.50	920.86
2	20	0.88	35.00	1060.38
2	30	0.88	40.25	1173.08

Pressure vs. Time



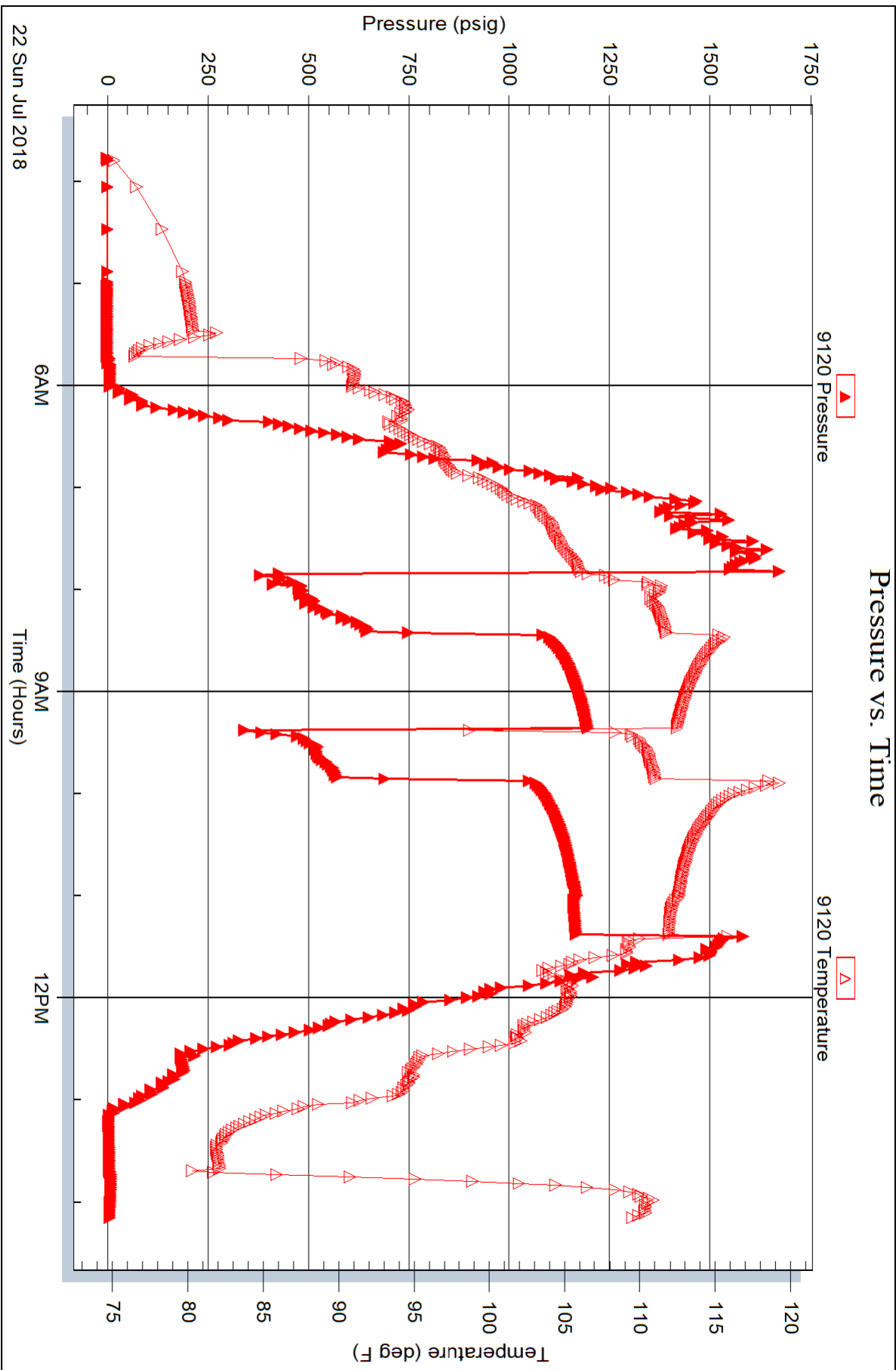
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63919

DST#: 2

Test Start: 2018.07.23 @ 00:33:00

GENERAL INFORMATION:

Formation: **LKC 'H-I-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:30

Time Test Ended: 09:46:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3432.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 285.56 psig @ 3435.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.23

End Date:

2018.07.23

Last Calib.:

2018.07.23

Start Time:

00:33:15

End Time:

09:46:45

Time On Btm:

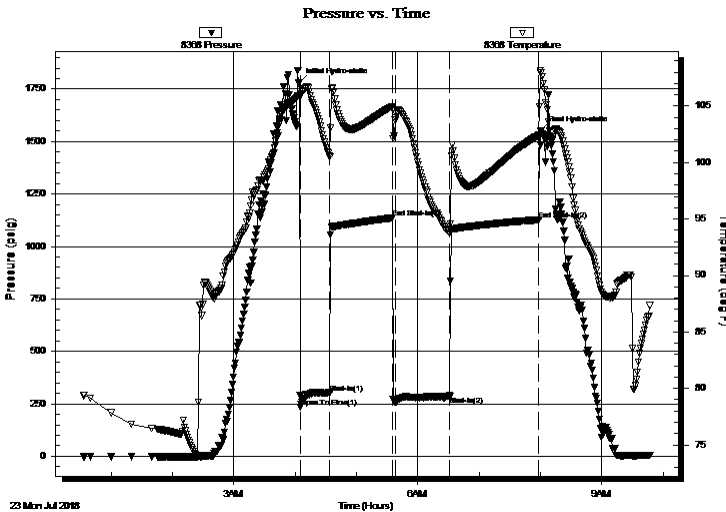
2018.07.23 @ 04:04:00

Time Off Btm:

2018.07.23 @ 08:00:15

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 secs ; GTS 1 min
60-ISI-Bled Off
60-FF-Strong Blow ; BOB instantaneously
90-FSI-Bled Off

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.01	105.92	Initial Hydro-static
2	234.65	106.01	Open To Flow (1)
30	300.51	100.54	Shut-In(1)
91	1135.11	104.93	End Shut-In(1)
94	257.59	103.93	Open To Flow (2)
148	285.56	93.74	Shut-In(2)
235	1126.81	102.42	End Shut-In(2)
237	1552.67	107.97	Final Hydro-static

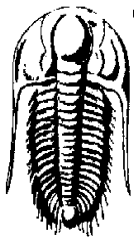
Recovery

Length (ft)	Description	Volume (bbl)
100.00	GHOCM 30%G 30%O 40%M	0.49
100.00	GOCM 30%G 10%O 60%M	0.84
40.00	GOCM 10%G 10%O 80%M	0.57

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	25.68	1152.25
Last Gas Rate	1.00	38.45	1519.38
Max. Gas Rate	1.00	41.42	1604.76

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
 N. BLDG 300 SUITE 200
 Wichita KS 67226
 ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63919

DST#: 2

Test Start: 2018.07.23 @ 00:33:00

GENERAL INFORMATION:

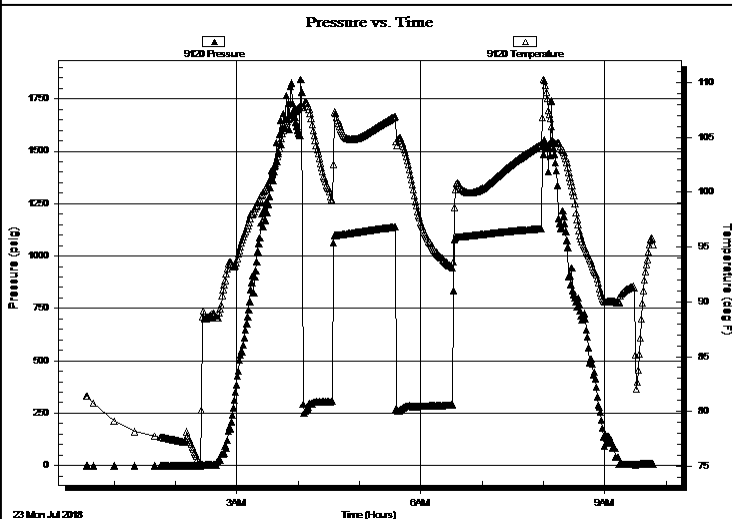
Formation: **LKC 'H-I-J'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:05:30
 Tester: Spencer J. Staab
 Time Test Ended: 09:46:45
 Unit No: 84
 Interval: **3432.00 ft (KB) To 3490.00 ft (KB) (TVD)**
 Reference Elevations: 1849.00 ft (KB)
 Total Depth: 3490.00 ft (KB) (TVD)
 1838.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 9120

Inside

Press@RunDepth: psig @ 3435.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2018.07.23 End Date: 2018.07.23 Last Calib.: 2018.07.23
 Start Time: 00:33:15 End Time: 09:46:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 secs ; GTS 1 min
 60-ISI-Bled Off
 60-FF-Strong Blow ; BOB instantaneously
 90-FSI-Bled Off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GHOCM 30%G 30%O 40%M	0.49
100.00	GOCM 30%G 10%O 60%M	0.84
40.00	GOCM 10%G 10%O 80%M	0.57

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	25.68	1152.25
Last Gas Rate	1.00	38.45	1519.38
Max. Gas Rate	1.00	41.42	1604.76

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63919

DST#: 2

Test Start: 2018.07.23 @ 00:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 72.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GHOCM 30%G 30%O 40%M	0.492
100.00	GOCM 30%G 10%O 60%M	0.844
40.00	GOCM 10%G 10%O 80%M	0.567

Total Length: 240.00 ft Total Volume: 1.903 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63919

DST#: 2

Test Start: 2018.07.23 @ 00:33:00

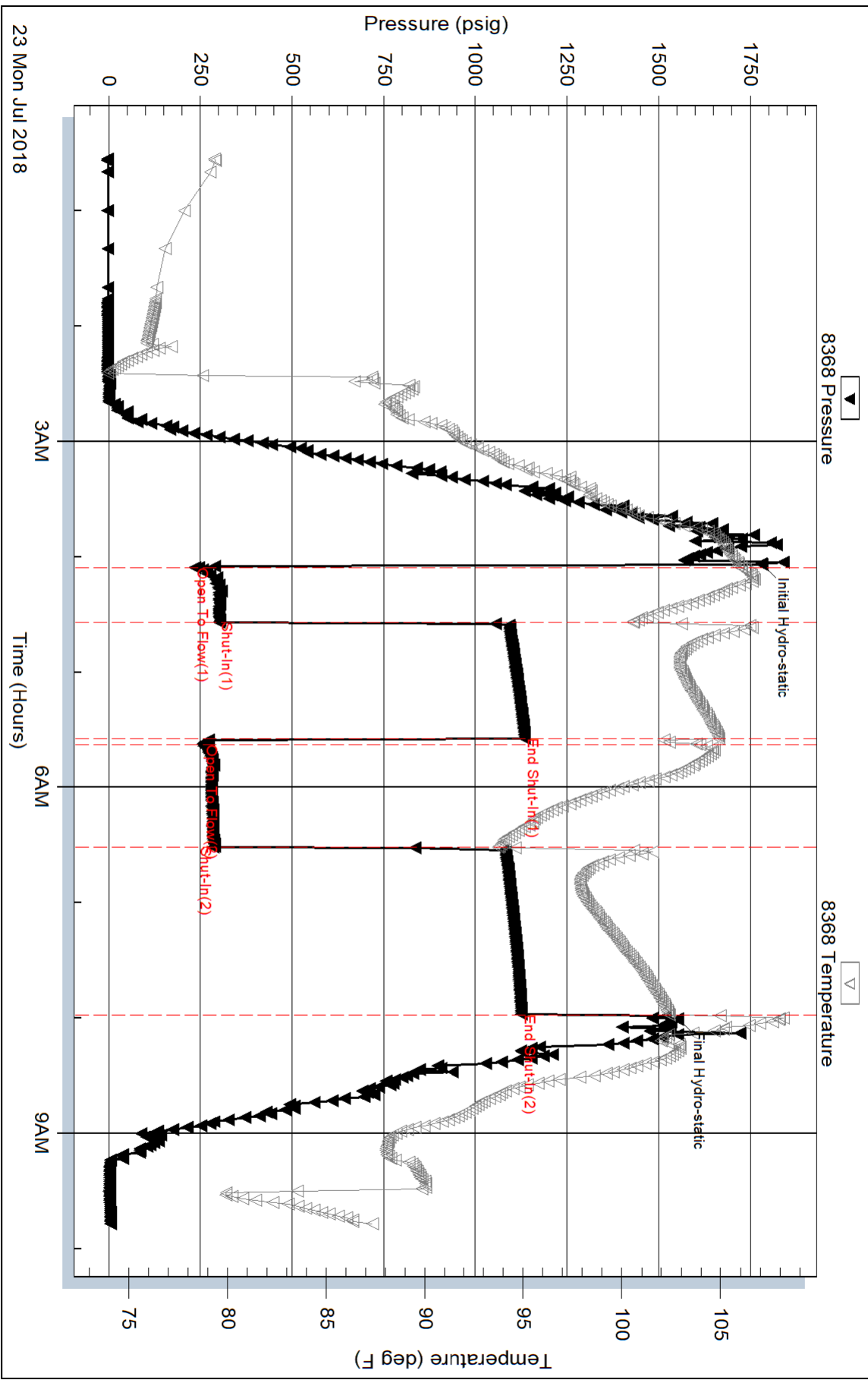
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	5	1.00	25.68	1152.25
1	10	1.00	31.34	1314.97
1	20	1.00	41.42	1604.76
1	30	1.00	41.00	1592.68
2	5	1.00	26.10	1164.33
2	10	1.00	35.88	1445.49
2	20	1.00	39.30	1543.81
2	30	1.00	39.33	1544.67
2	40	1.00	38.88	1531.74
2	50	1.00	38.90	1532.31
2	60	1.00	38.45	1519.38

Pressure vs. Time



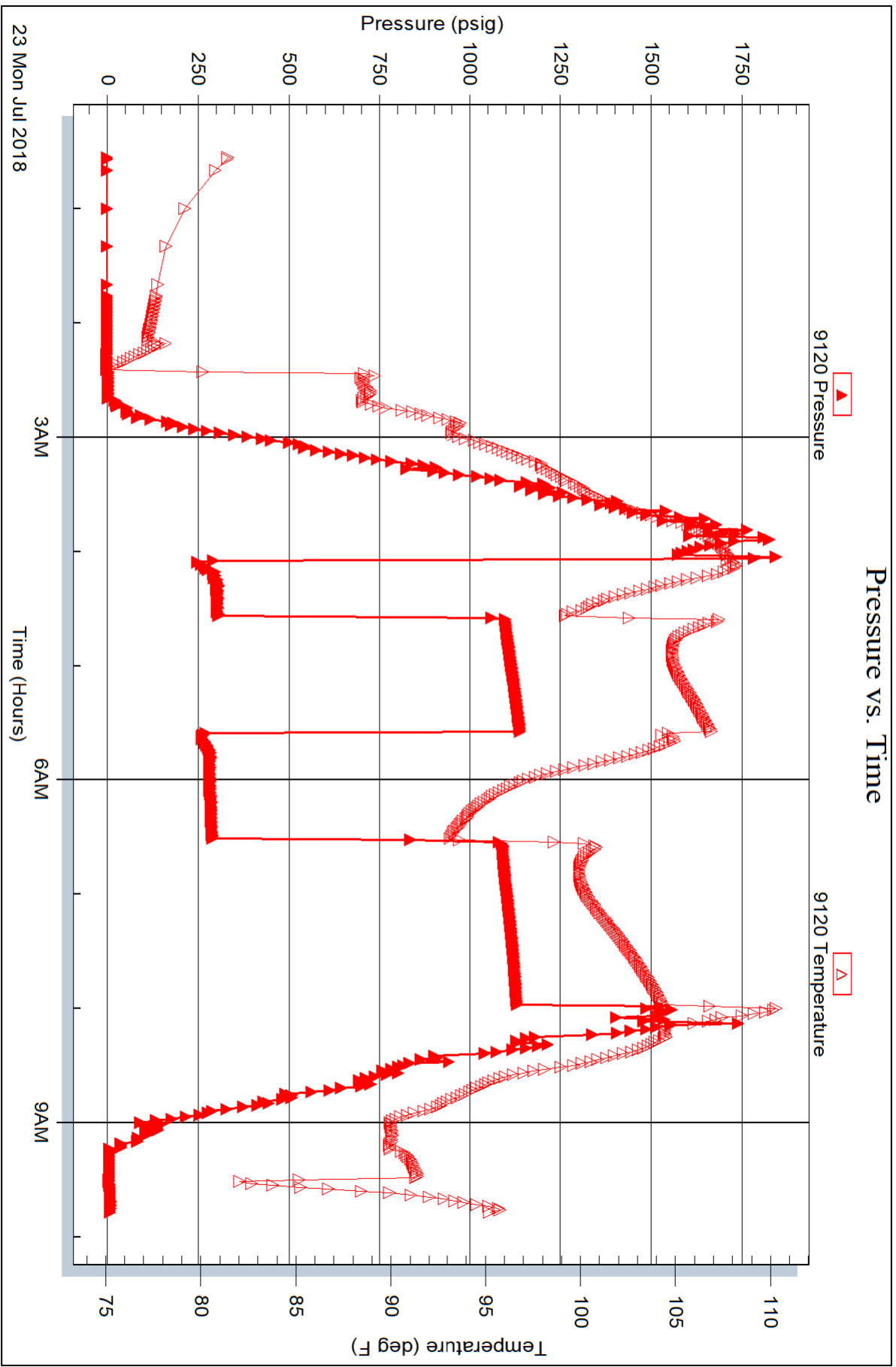
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63920

DST#: 3

Test Start: 2018.07.23 @ 18:08:00

GENERAL INFORMATION:

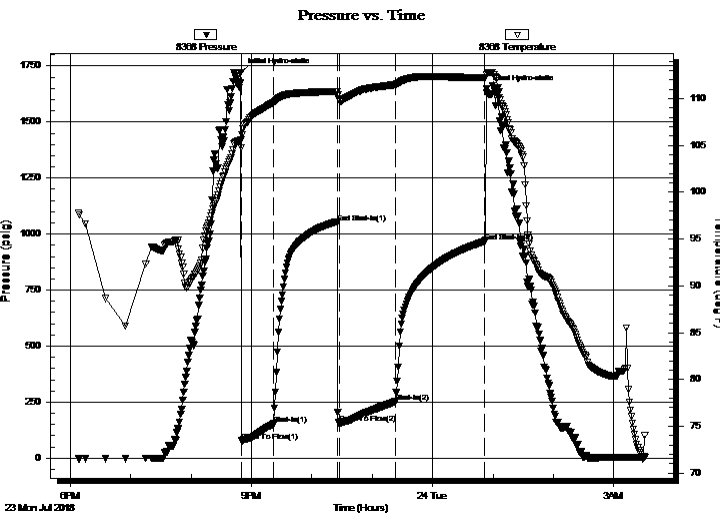
Formation: **LKC 'K-L'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:49:45
 Time Test Ended: 03:31:00
 Interval: **3490.00 ft (KB) To 3554.00 ft (KB) (TVD)**
 Total Depth: 3554.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1849.00 ft (KB)
 1838.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 251.63 psig @ 3494.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.23 End Date: 2018.07.24 Last Calib.: 2018.07.24
 Start Time: 18:08:15 End Time: 03:31:00 Time On Btm: 2018.07.23 @ 20:49:30
 Time Off Btm: 2018.07.24 @ 00:53:15

TEST COMMENT: 30-IF-Strong Blow ; BOB in 30 secs ; GTS in 25 min ; TSTM ; Built to 520"
 60-ISI-Bled off
 60-FF-Strong Blow ; BOB in 2 mins ; GTS in 5 min
 90-FSI-Bled off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.48	105.61	Initial Hydro-static
1	76.58	104.77	Open To Flow (1)
32	149.05	109.56	Shut-In(1)
96	1051.25	110.74	End Shut-In(1)
98	154.00	109.88	Open To Flow (2)
154	251.63	111.48	Shut-In(2)
243	966.66	112.24	End Shut-In(2)
244	1646.78	112.52	Final Hydro-static

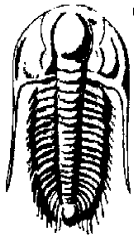
Recovery

Length (ft)	Description	Volume (bbl)
200.00	MO 50%M 50%O	1.34
200.00	GO 85%G 15%O	2.84
300.00	CGO 30%G 70%O	4.25

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	9.75	9.04
Last Gas Rate	0.13	10.46	9.31
Max. Gas Rate	0.13	10.46	9.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63920

DST#: 3

Test Start: 2018.07.23 @ 18:08:00

GENERAL INFORMATION:

Formation: **LKC 'K-L'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:49:45
 Time Test Ended: 03:31:00
 Interval: **3490.00 ft (KB) To 3554.00 ft (KB) (TVD)**
 Total Depth: 3554.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1849.00 ft (KB)
 1838.00 ft (CF)
 KB to GR/CF: 11.00 ft

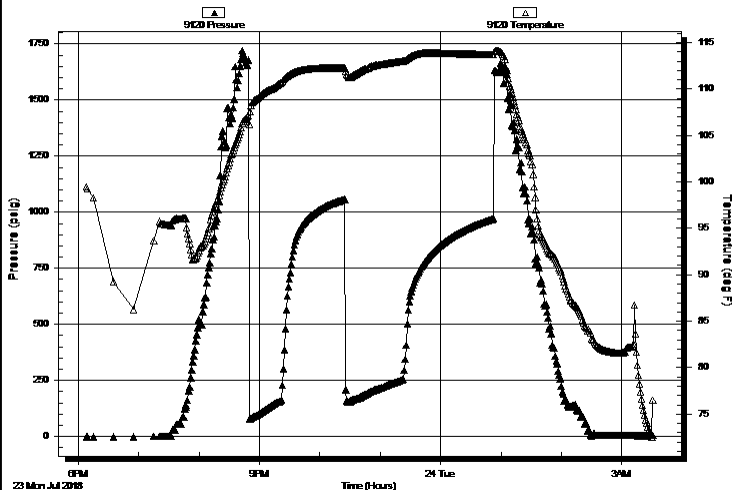
Serial #: 9120

Inside

Press@RunDepth: psig @ 3494.00 ft (KB)
 Start Date: 2018.07.23 End Date: 2018.07.24
 Start Time: 18:08:15 End Time: 03:31:15
 Capacity: 8000.00 psig
 Last Calib.: 2018.07.24
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Strong Blow ; BOB in 30 secs; GTS in 25 min; TSTM; Built to 520"
 60-ISI-Bled off
 60-FF-Strong Blow ; BOB in 2 mins; GTS in 5 min
 90-FSI-Bled off

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MO 50%M 50%O	1.34
200.00	GO 85%G 15%O	2.84
300.00	CGO 30%G 70%O	4.25

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	9.75	9.04
Last Gas Rate	0.13	10.46	9.31
Max. Gas Rate	0.13	10.46	9.31

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63920

DST#: 3

Test Start: 2018.07.23 @ 18:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

45 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 89.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MO 50%M 50%O	1.335
200.00	GO 85%G 15%O	2.835
300.00	CGO 30%G 70%O	4.253

Total Length: 700.00 ft

Total Volume: 8.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

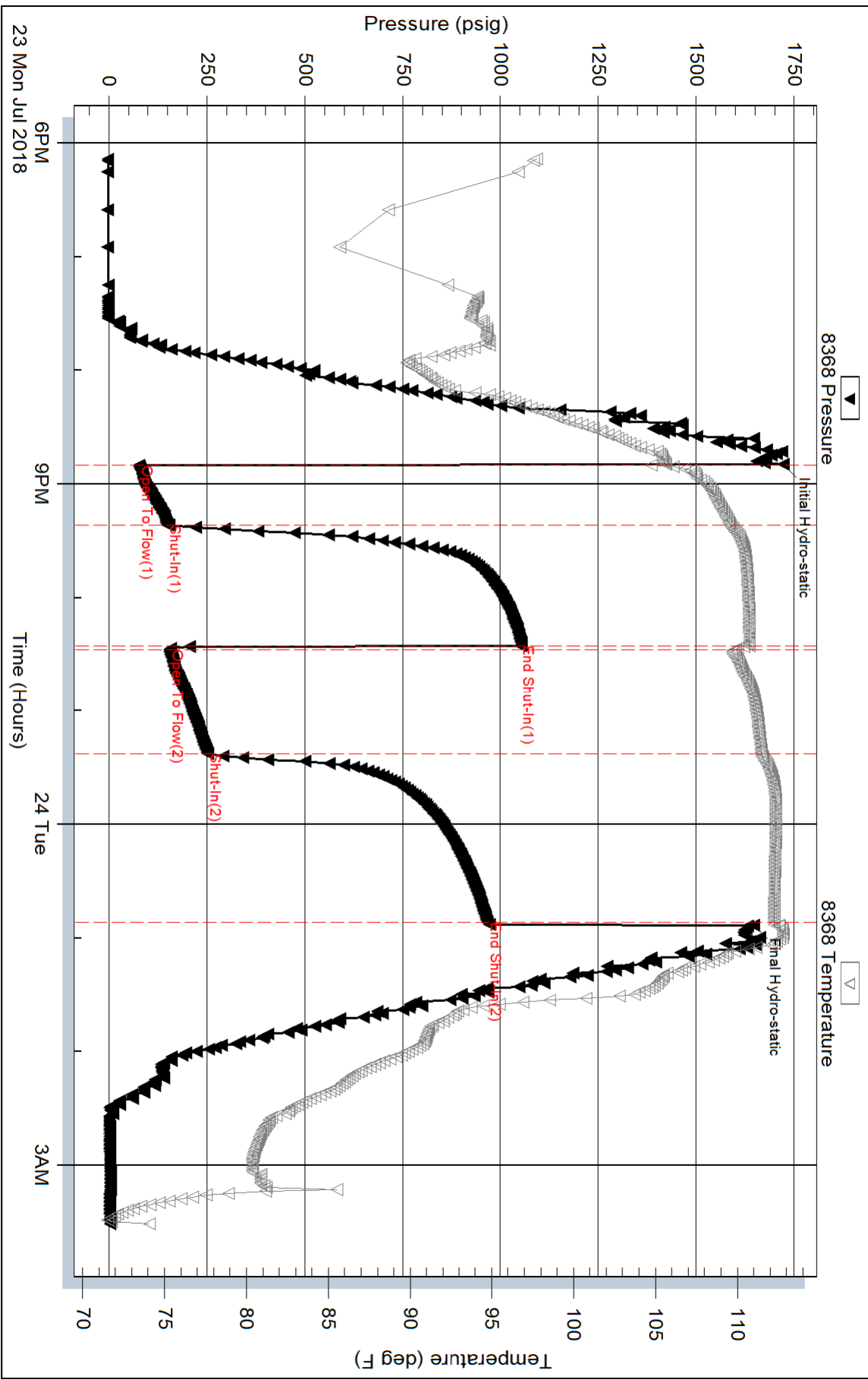
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Pressure vs. Time



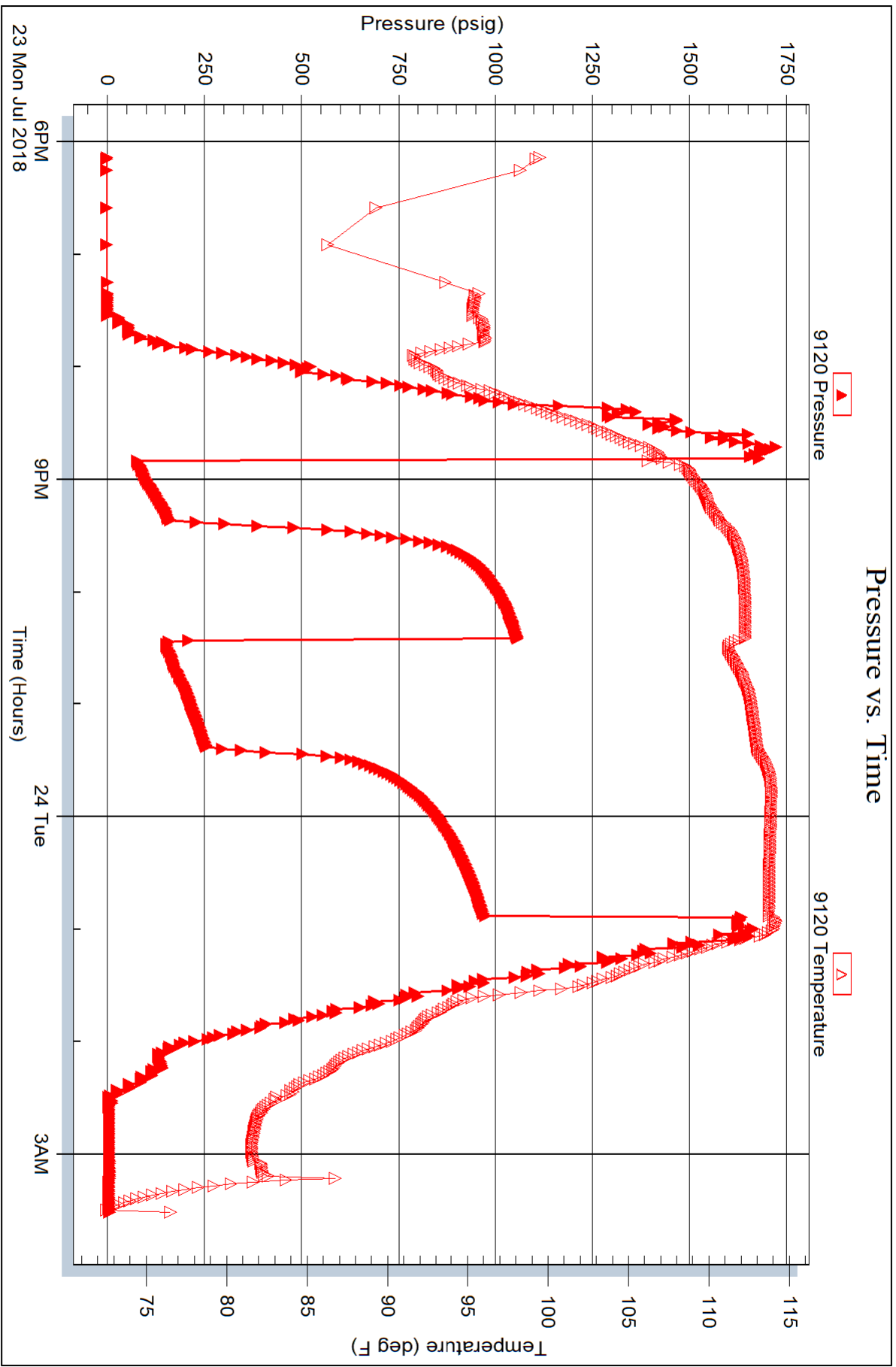
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63920

Printed: 2018.07.24 @ 07:02:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63921

DST#: 4

Test Start: 2018.07.24 @ 11:50:00

GENERAL INFORMATION:

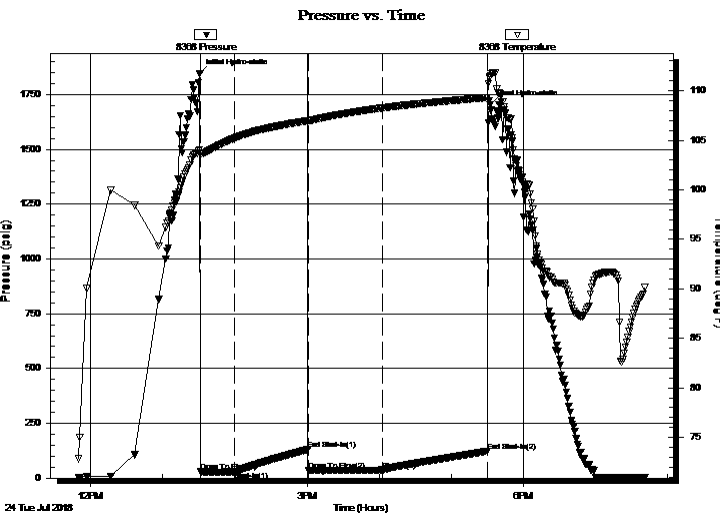
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:31:45
 Tester: Spencer J. Staab
 Time Test Ended: 19:41:30
 Unit No: 84
 Interval: **3574.00 ft (KB) To 3616.00 ft (KB) (TVD)**
 Reference Elevations: 1849.00 ft (KB)
 Total Depth: 3616.00 ft (KB) (TVD)
 1838.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 37.70 psig @ 3577.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.24 End Date: 2018.07.24 Last Calib.: 2018.07.24
 Start Time: 11:50:15 End Time: 19:41:30 Time On Btm: 2018.07.24 @ 13:31:00
 Time Off Btm: 2018.07.24 @ 17:32:15

TEST COMMENT: 30-IF-Fair Blow ; BOB in 20 mins; Built to 12"
 60-ISI-No Return
 60-FF-Fair Blow ; BOB in 15 mins; Built to 19"
 90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.62	104.06	Initial Hydro-static
1	30.96	103.68	Open To Flow (1)
29	29.65	105.21	Shut-In(1)
90	130.89	106.99	End Shut-In(1)
91	35.25	106.96	Open To Flow (2)
152	37.70	108.26	Shut-In(2)
239	123.08	109.31	End Shut-In(2)
242	1704.21	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 10%G 10%O 80%M	0.10
0.00	300' GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63921

DST#: 4

Test Start: 2018.07.24 @ 11:50:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:31:45

Time Test Ended: 19:41:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3574.00 ft (KB) To 3616.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3616.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 9120 Inside

Press@RunDepth: psig @ 3577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.24

End Date:

2018.07.24

Last Calib.:

2018.07.24

Start Time: 11:50:15

End Time:

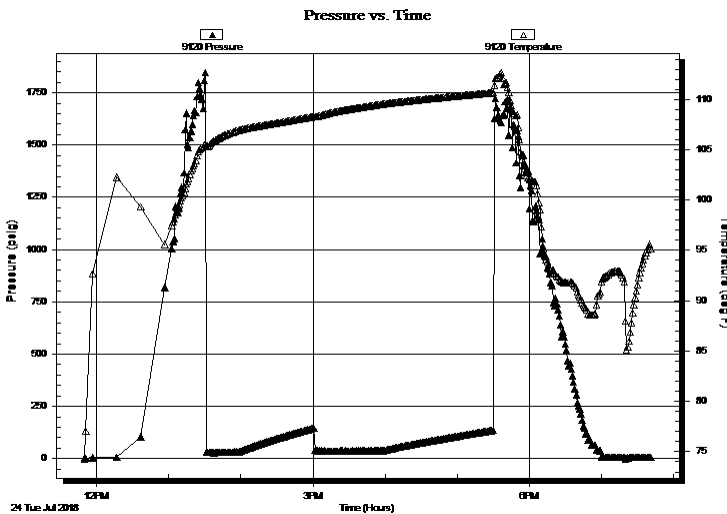
19:41:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Fair Blow ; BOB in 20 mins; Built to 12"
60-ISI-No Return
60-FF-Fair Blow ; BOB in 15 mins; Built to 19"
90-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 10%G 10%O 80%M	0.10
0.00	300' GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63921

DST#: 4

Test Start: 2018.07.24 @ 11:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 89.00 sec/qt
Water Loss: 14.59 in³
Resistivity: ohm.m
Salinity: 15200.00 ppm
Filter Cake: 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
20.00	GOCM 10%G 10%O 80%M	0.098
0.00	300' GIP 100%G	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Serial #: 8368

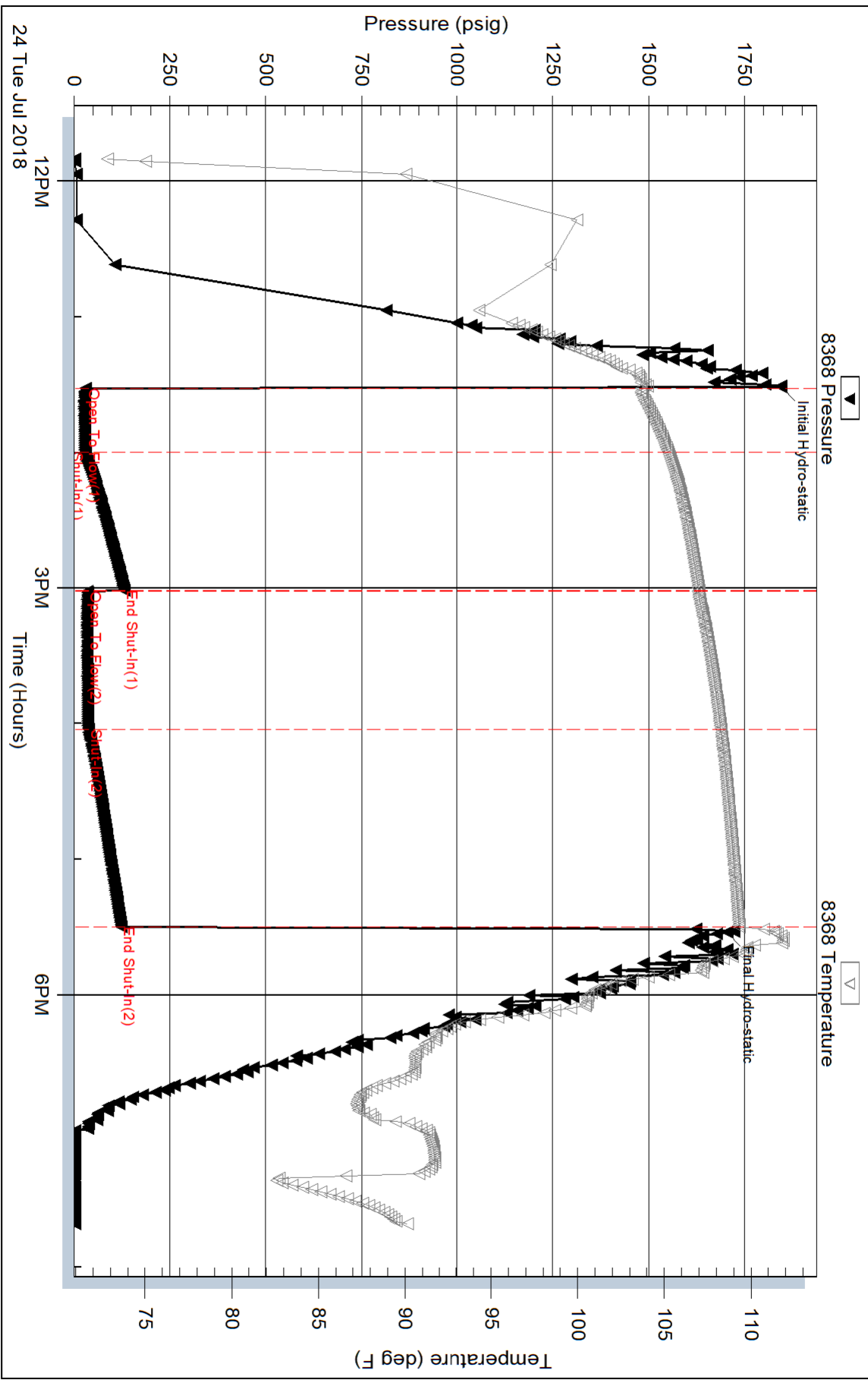
Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63921

Printed: 2018.07.24 @ 20:55:38

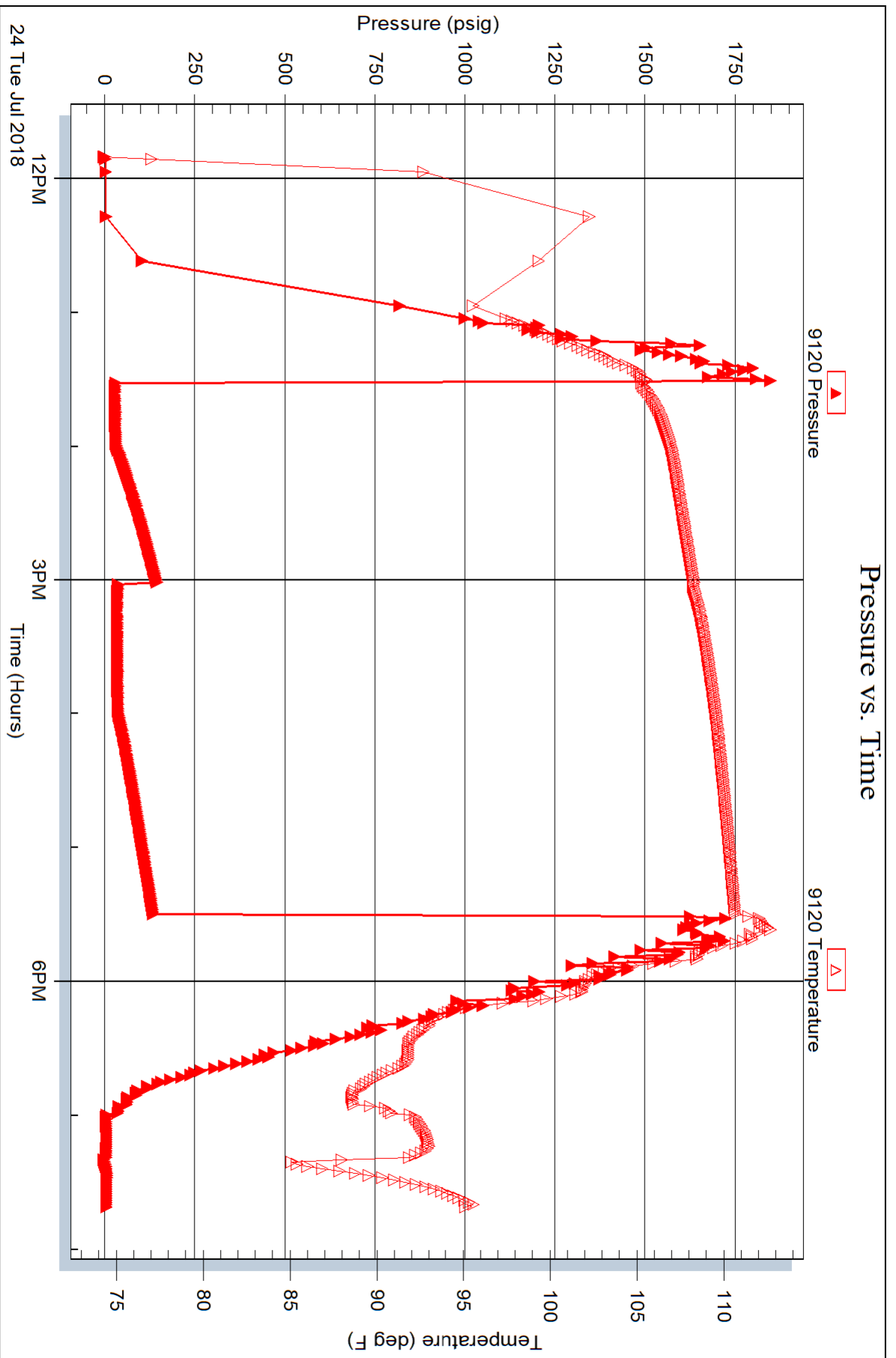
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63922

DST#: 5

Test Start: 2018.07.25 @ 02:58:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:14:00
 Tester: Spencer J. Staab
 Time Test Ended: 12:02:30
 Unit No: 84
 Interval: **3616.00 ft (KB) To 3664.00 ft (KB) (TVD)**
 Reference Elevations: 1849.00 ft (KB)
 Total Depth: 3664.00 ft (KB) (TVD)
 1838.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 11.00 ft

Serial #: 8368

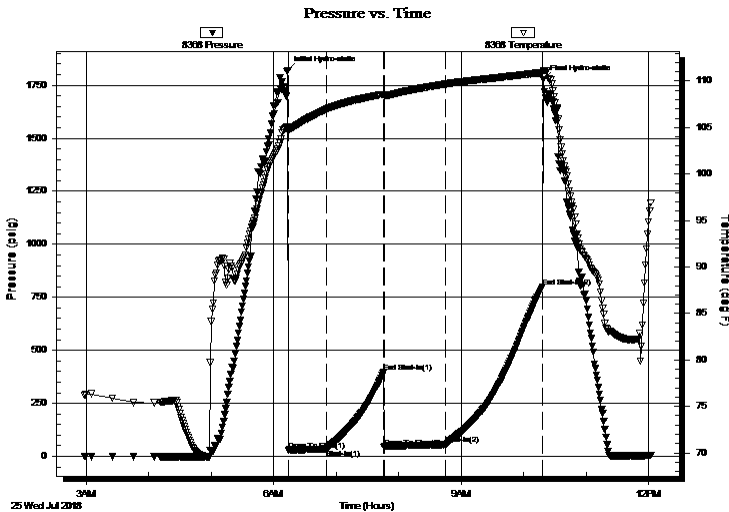
Inside

Press@RunDepth: 55.85 psig @ 3620.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.25 End Date: 2018.07.25 Last Calib.: 2018.07.25
 Start Time: 02:58:15 End Time: 12:02:30 Time On Btm: 2018.07.25 @ 06:13:15
 Time Off Btm: 2018.07.25 @ 10:18:45

TEST COMMENT: 30-IF-Fair Blow ; BOB in 19 min; Built to 14&1/4"
 60-ISI-No Return
 60-FF-Fair Blow ; BOB in 20 mins; Built to 23&1/2"
 90-FSI-No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.88	105.08	Initial Hydro-static
1	28.94	104.81	Open To Flow (1)
37	34.78	106.94	Shut-In(1)
92	396.69	108.58	End Shut-In(1)
93	43.36	108.45	Open To Flow (2)
152	55.85	109.68	Shut-In(2)
245	799.75	110.91	End Shut-In(2)
246	1777.13	111.14	Final Hydro-static



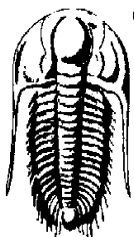
Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 10%G 35%O 55%M	0.30
20.00	GSOCM 10%G 2%O 88%M	0.10
0.00	600' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63922

DST#: 5

Test Start: 2018.07.25 @ 02:58:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:00

Time Test Ended: 12:02:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3616.00 ft (KB) To 3664.00 ft (KB) (TVD)

Total Depth: 3664.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1849.00 ft (KB)

1838.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 9120

Inside

Press@RunDepth: psig @ 3620.00 ft (KB)

Start Date: 2018.07.25

End Date:

2018.07.25

Start Time: 02:58:15

End Time:

12:02:30

Capacity: 8000.00 psig

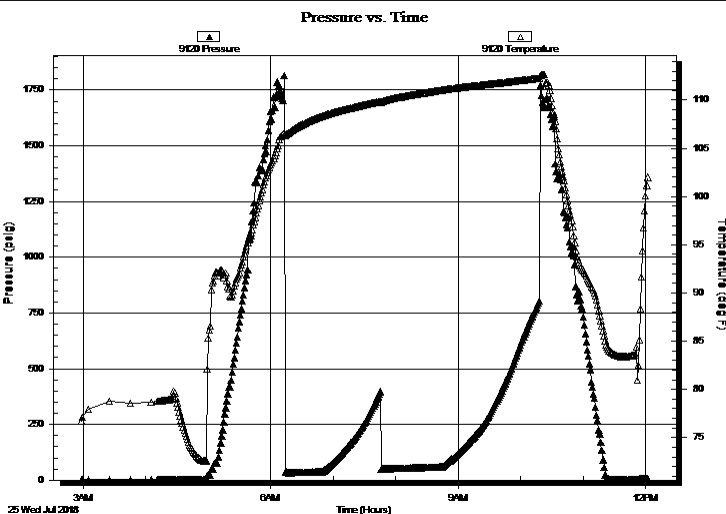
Last Calib.:

2018.07.25

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Fair Blow ; BOB in 19 min; Built to 14&1/4"
60-ISI-No Return
60-FF-Fair Blow ; BOB in 20 mins; Built to 23&1/2"
90-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOcm 10%G 35%O 55%M	0.30
20.00	GSOcm 10%G 2%O 88%M	0.10
0.00	600' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63922

DST#: 5

Test Start: 2018.07.25 @ 02:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 89.00 sec/qt

Water Loss: 14.59 in³

Resistivity: ohm.m

Salinity: 15200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 10%G 35%O 55%M	0.295
20.00	GSOCM 10%G 2%O 88%M	0.098
0.00	600' GIP	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

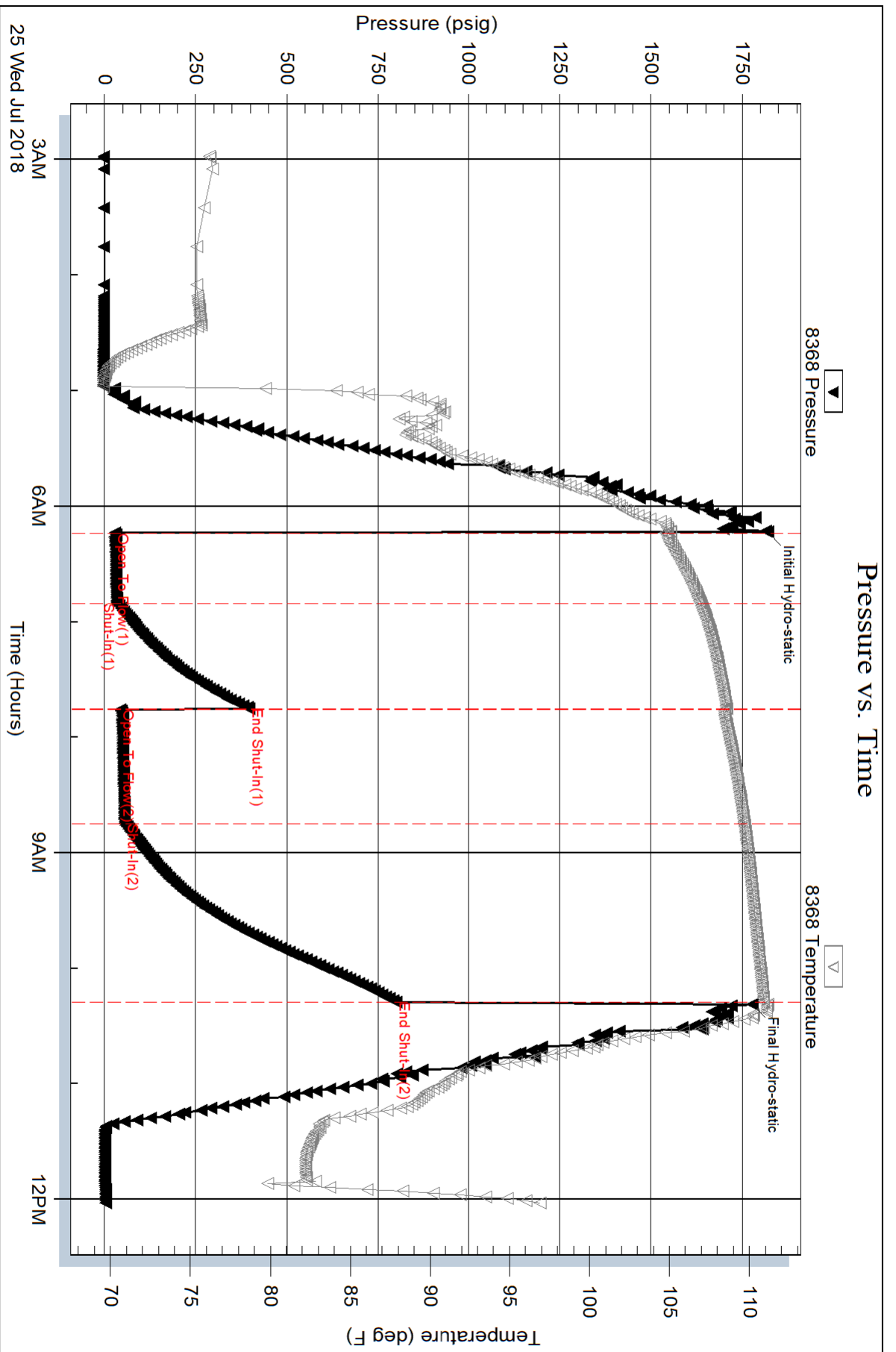
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



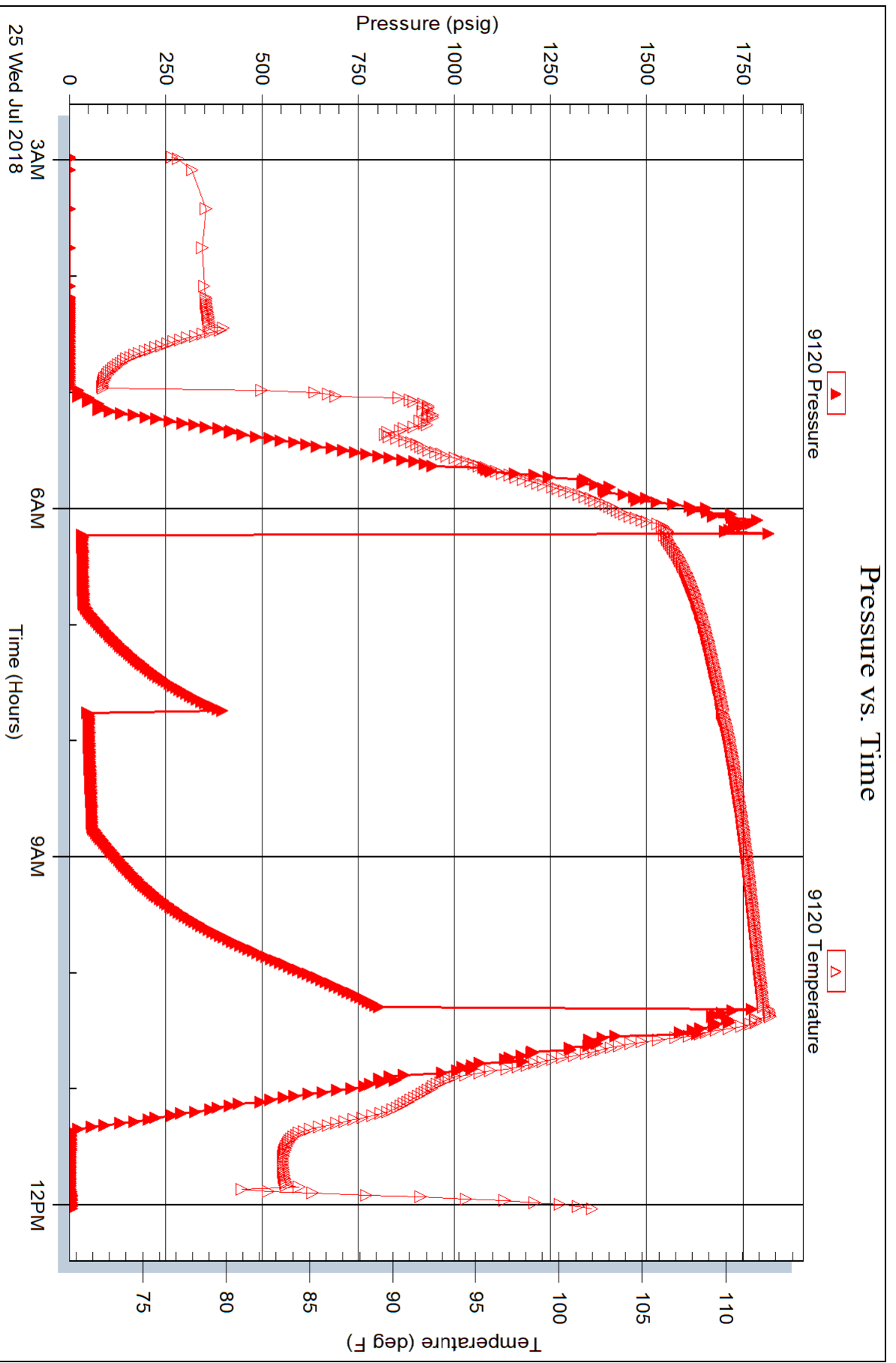
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63923

DST#: 6

Test Start: 2018.07.26 @ 01:33:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:53:00

Time Test Ended: 08:19:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3705.00 ft (KB) To 3712.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 19.60 psig @ 3706.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.26

End Date:

2018.07.26

Last Calib.:

2018.07.26

Start Time: 01:33:15

End Time:

08:19:45

Time On Btm:

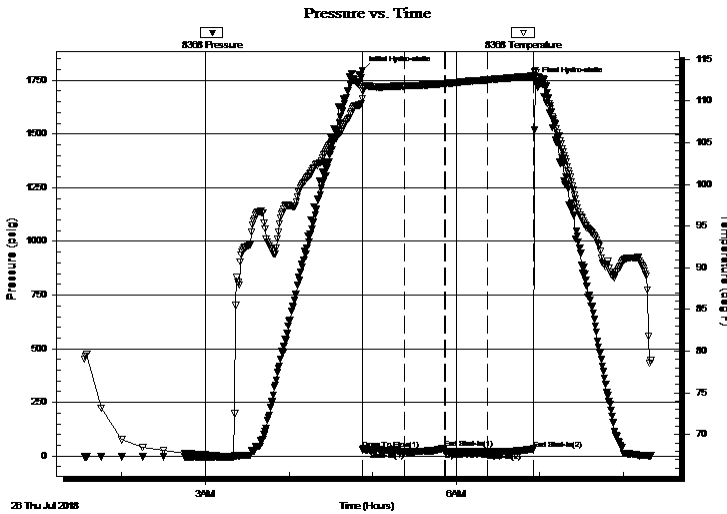
2018.07.26 @ 04:52:30

Time Off Btm:

2018.07.26 @ 06:56:45

TEST COMMENT: 30-IF-Weak Blow ; Built to 5&1/2"
30-ISI-No Return
30-FF-Weak Blow ; Built to 3/4"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.07	110.26	Initial Hydro-static
1	31.55	111.17	Open To Flow (1)
31	20.50	111.78	Shut-In(1)
59	37.35	112.08	End Shut-In(1)
60	21.75	112.08	Open To Flow (2)
90	19.60	112.52	Shut-In(2)
123	33.46	112.98	End Shut-In(2)
125	1742.71	113.65	Final Hydro-static

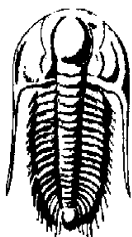
Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.
8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

4-23S-12W Stafford KS

Edna Mae #1-4

Job Ticket: 63923

DST#: 6

Test Start: 2018.07.26 @ 01:33:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:53:00
Time Test Ended: 08:19:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

Interval: 3705.00 ft (KB) To 3712.00 ft (KB) (TVD)
Total Depth: 3705.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1849.00 ft (KB)
1838.00 ft (CF)
KB to GR/CF: 11.00 ft

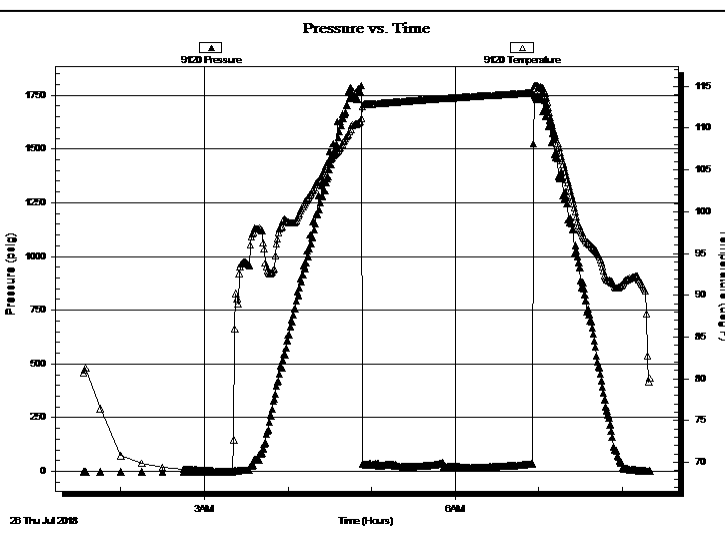
Serial #: 9120

Inside

Press@RunDepth: psig @ 3706.00 ft (KB)
Start Date: 2018.07.26 End Date: 2018.07.26
Start Time: 01:33:15 End Time: 08:19:45

Capacity: 8000.00 psig
Last Calib.: 2018.07.26
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow ; Built to 5&1/2"
30-ISI-No Return
30-FF-Weak Blow ; Built to 3/4"
30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63923

DST#: 6

Test Start: 2018.07.26 @ 01:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 11900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1/2#LCM

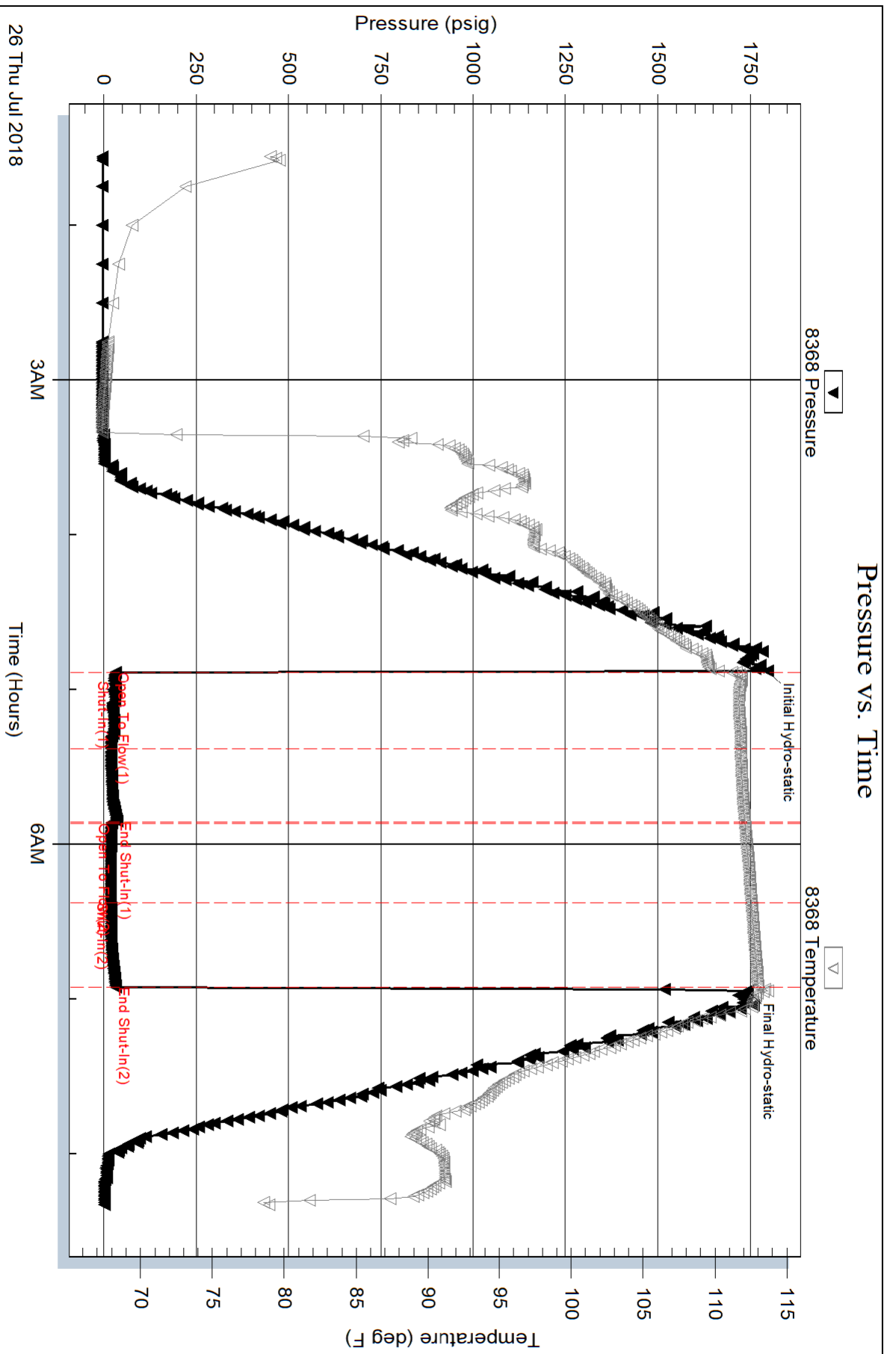
Serial #: 8368

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 63923

Printed: 2018.07.26 @ 08:43:28

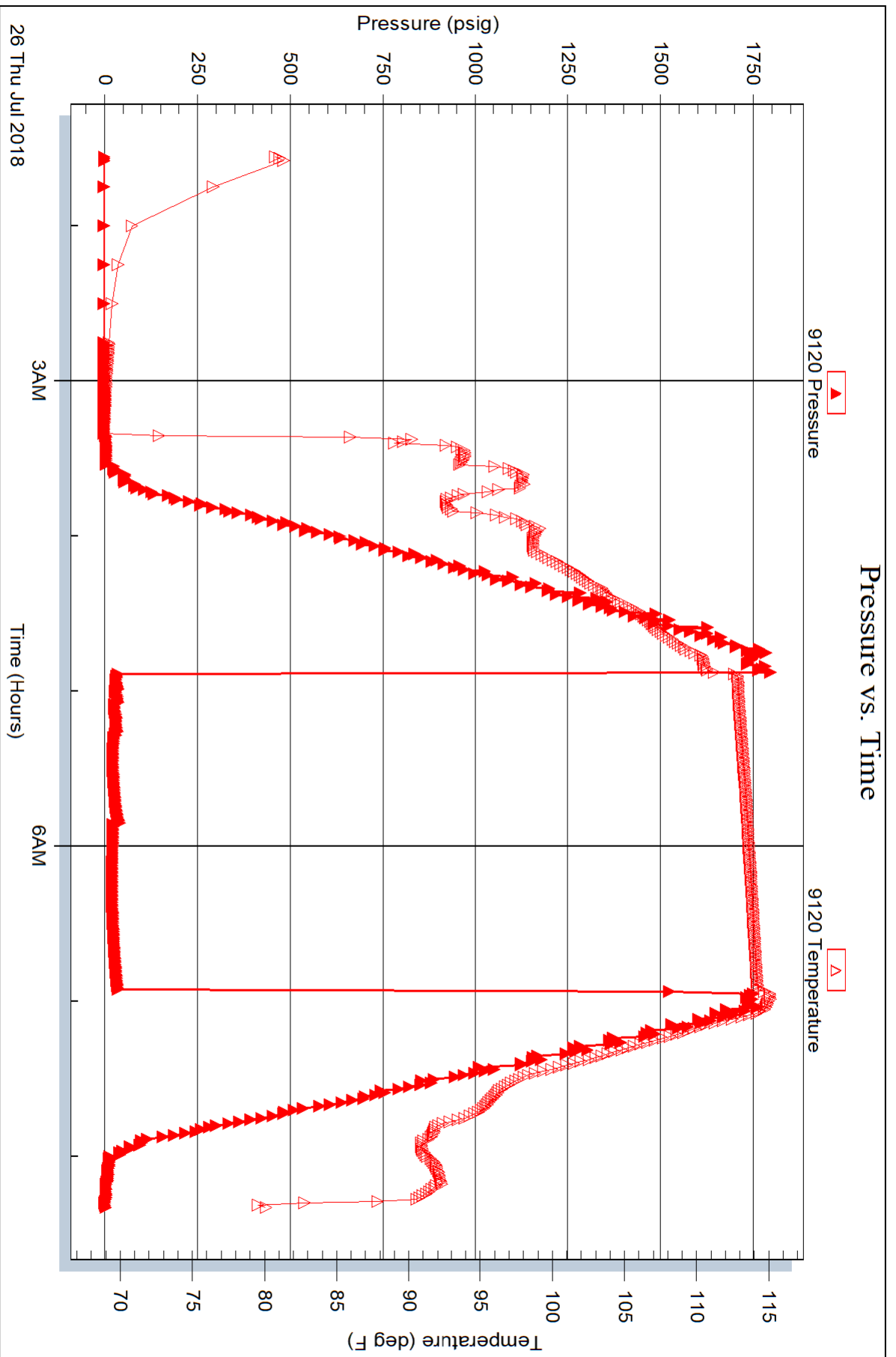
Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 63923

Printed: 2018.07.26 @ 08:43:28

STATE OF KANSAS



CORPORATION COMMISSION
CONSERVATION DIVISION
266 N. MAIN ST., STE. 220
WICHITA, KS 67202-1513

PHONE: 316-337-6200
FAX: 316-337-6211
<http://kcc.ks.gov/>

GOVERNOR JEFF COLYER, M.D.

SHARI FEIST ALBRECHT, CHAIR | JAY SCOTT EMLER, COMMISSIONER | DWIGHT D. KEEN, COMMISSIONER

December 06, 2018

TJ Dixon
Dixon Operating Company, LLC
8100 E. 22ND ST N BLDG 300, SUITE 200
WICHITA, KS 67226

Re: ACO-1
API 15-185-24023-00-00
EDNA MAE 1-4
SE/4 Sec.04-23S-12W
Stafford County, Kansas

Dear TJ Dixon:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 7/19/2018 and the ACO-1 was received on December 04, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department