

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

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
--	---

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
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	StrataKan Exploration, LLC
Well Name	THOMPSON 29-1
Doc ID	1542118

All Electric Logs Run

MEL
DUCP
DIL
CBL



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

100 S. Main St
Plainville KS 67663+2234

ATTN: Jason Alm

Thompson #29-1

29-21s-14w Stafford,KS

Start Date: 2020.07.12 @ 12:05:00

End Date: 2020.07.12 @ 20:15:20

Job Ticket #: 65763 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.07.15 @ 15:13:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65763

DST#: 1

ATTN: Jason Alm

Test Start: 2020.07.12 @ 12:05:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:40

Time Test Ended: 20:15:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3574.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6772 Inside

Press@RunDepth: 55.25 psig @ 3575.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.07.12 End Date: 2020.07.12

Last Calib.: 2020.07.12

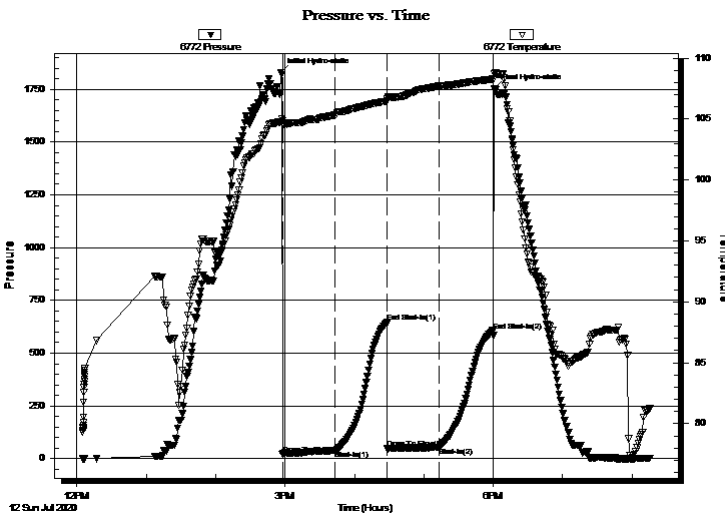
Start Time: 12:05:01 End Time: 20:15:20

Time On Btm: 2020.07.12 @ 14:56:10

Time Off Btm: 2020.07.12 @ 18:01:00

TEST COMMENT: IF-45- built to 10"
IS-45- no blow back
FF-45- built to 9"
FSI-45- w eak surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.64	104.78	Initial Hydro-static
2	21.48	104.67	Open To Flow (1)
47	38.48	105.35	Shut-In(1)
92	645.25	106.47	End Shut-In(1)
93	47.44	106.69	Open To Flow (2)
138	55.25	107.73	Shut-In(2)
184	606.20	108.27	End Shut-In(2)
185	1751.06	108.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 5%G 35%O 60%M	0.44
60.00	OCM 5%G 15%O 80%M	0.44
0.00	GIP 60'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65763

DST#: 1

ATTN: Jason Alm

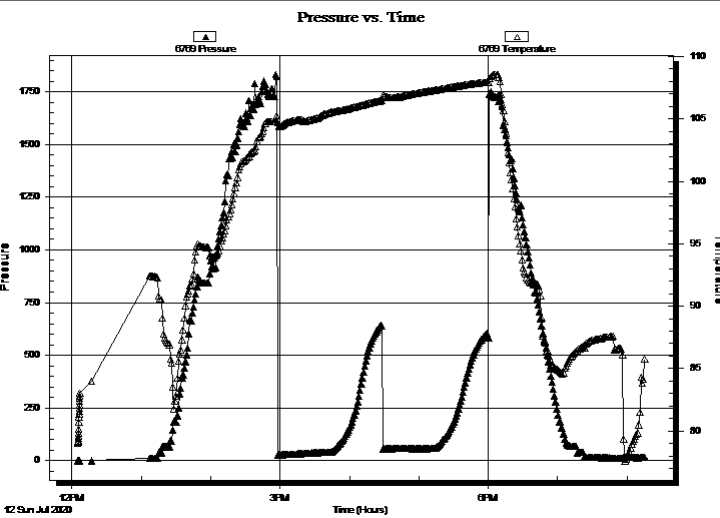
Test Start: 2020.07.12 @ 12:05:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:57:40
 Time Test Ended: 20:15:20
 Interval: **3574.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 67
 Reference Elevations: 1952.00 ft (KB)
 1941.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6769 Outside
 Press@RunDepth: psig @ 3575.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.07.12 End Date: 2020.07.12 Last Calib.: 2020.07.12
 Start Time: 12:05:01 End Time: 20:15:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-45- built to 10"
 IS-45- no blow back
 FF-45- built to 9"
 FS-45- weak surface blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	HOCM 5%G 35%O 60%M	0.44
60.00	OCM 5%G 15%O 80%M	0.44
0.00	GIP 60'	0.00

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65763

DST#: 1

ATTN: Jason Alm

Test Start: 2020.07.12 @ 12:05:00

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.75 inches	Volume: 0.88 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3574.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3548.00	
Shut In Tool	5.00			3553.00	
Hydraulic tool	5.00			3558.00	
E.M.	5.00			3563.00	
Safety Joint	2.00			3565.00	
Packer	5.00			3570.00	27.00 Bottom Of Top Packer
Packer	4.00			3574.00	
Stubb	1.00			3575.00	
Recorder	0.00	6772	Inside	3575.00	
Recorder	0.00	6769	Outside	3575.00	
Perforations	22.00			3597.00	
Bullnose	3.00			3600.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65763

DST#: 1

ATTN: Jason Alm

Test Start: 2020.07.12 @ 12:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	HOCM 5%G 35%O 60%M	0.441
60.00	OCM 5%G 15%O 80%M	0.441
0.00	GIP 60'	0.000

Total Length: 120.00 ft

Total Volume: 0.882 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

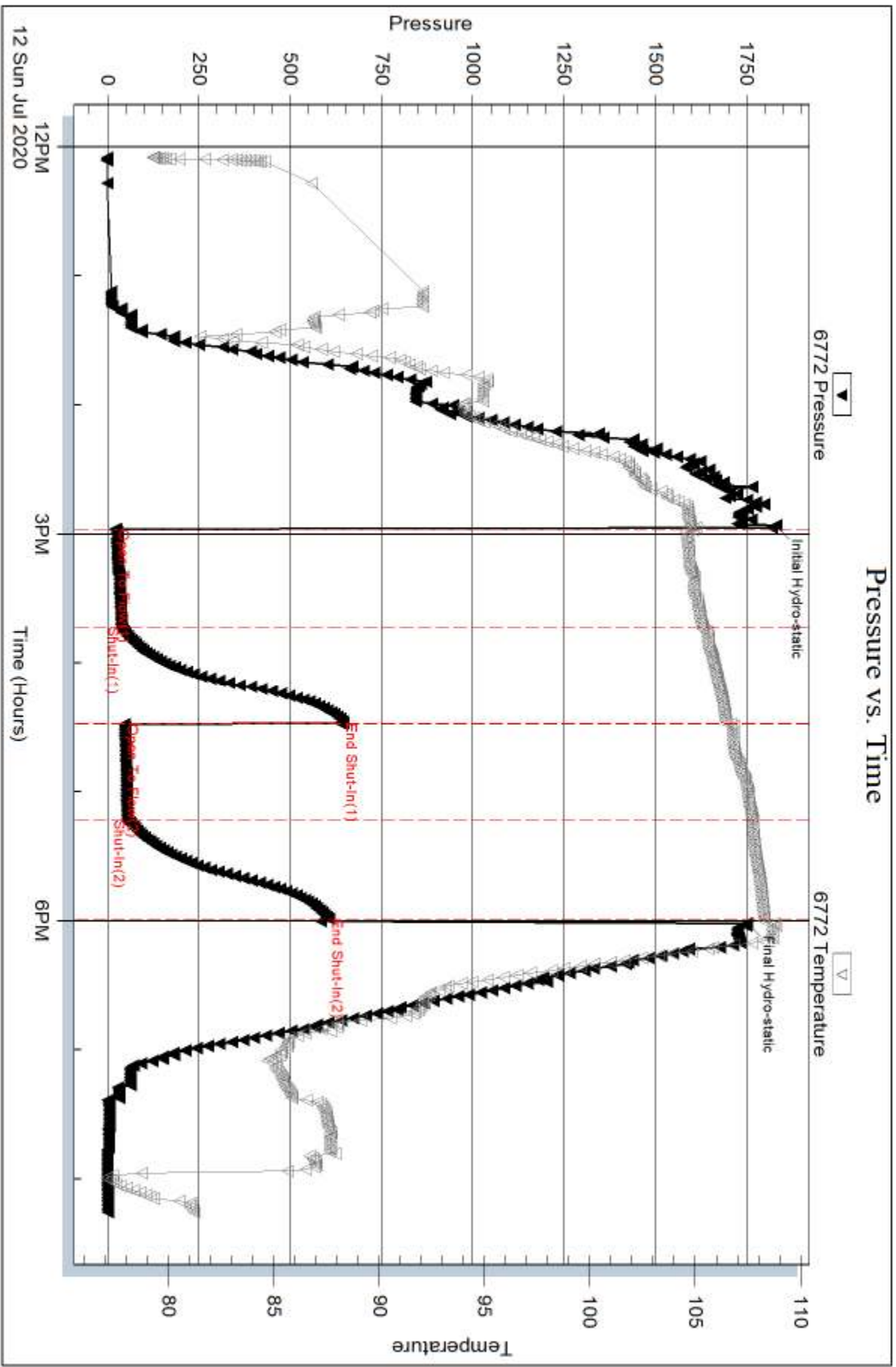
Serial #: 6772

Inside

Stratakan Exploration LLC

Thompson #29-1

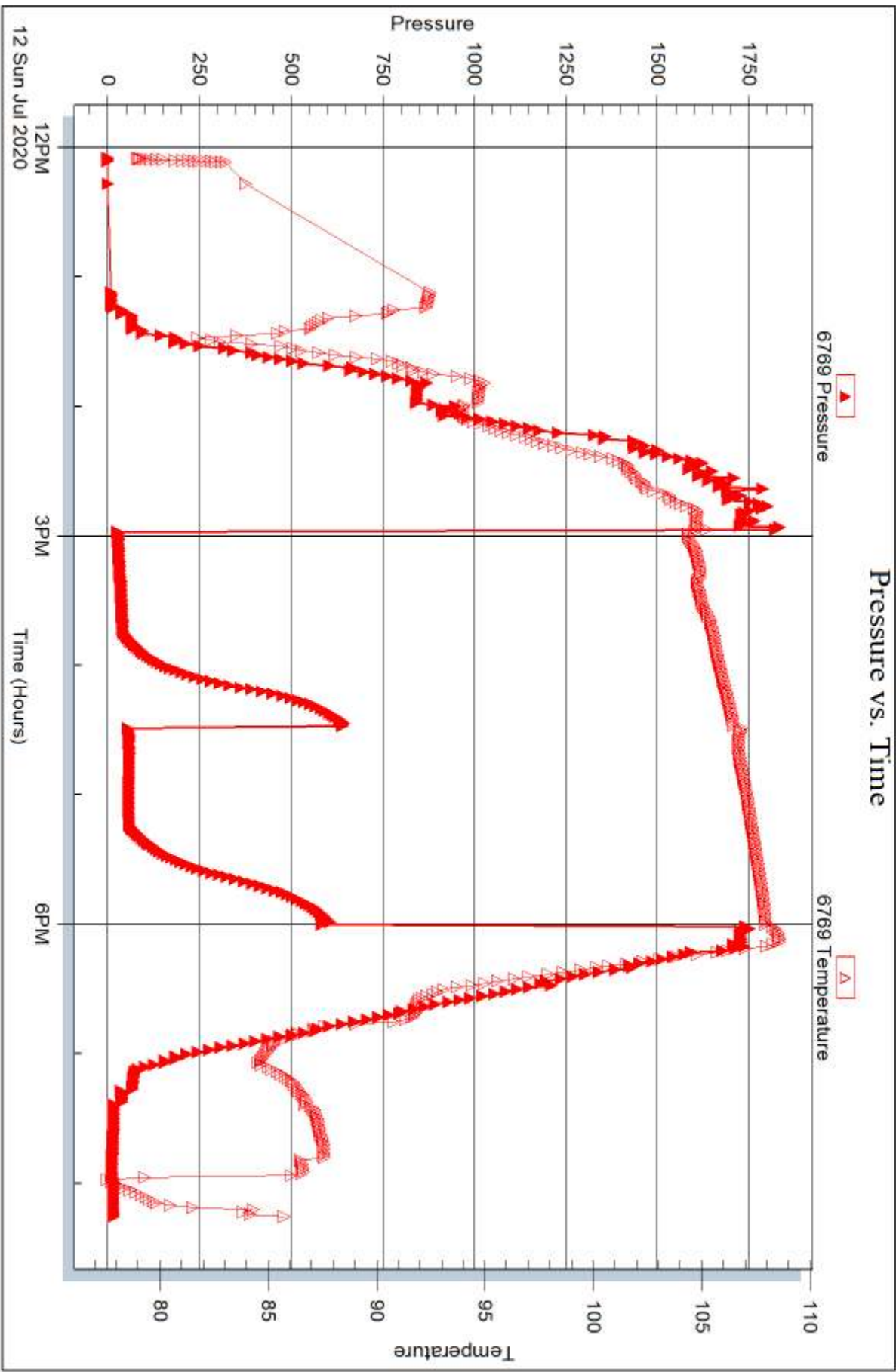
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65763

Printed: 2020.07.15 @ 15:13:42





DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

100 S. Main St
Plainville KS 67663+2234

ATTN: Jason Alm

Thompson #29-1

29-21s-14w Stafford,KS

Start Date: 2020.07.13 @ 08:40:00

End Date: 2020.07.13 @ 14:56:00

Job Ticket #: 65764 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.07.15 @ 15:14:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65764

DST#: 2

ATTN: Jason Alm

Test Start: 2020.07.13 @ 08:40:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:20:20

Time Test Ended: 14:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3641.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6772 Inside

Press@RunDepth: 34.82 psig @ 3642.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.07.13

End Date:

2020.07.13

Last Calib.:

2020.07.13

Start Time: 08:40:01

End Time:

14:56:00

Time On Btm:

2020.07.13 @ 11:19:20

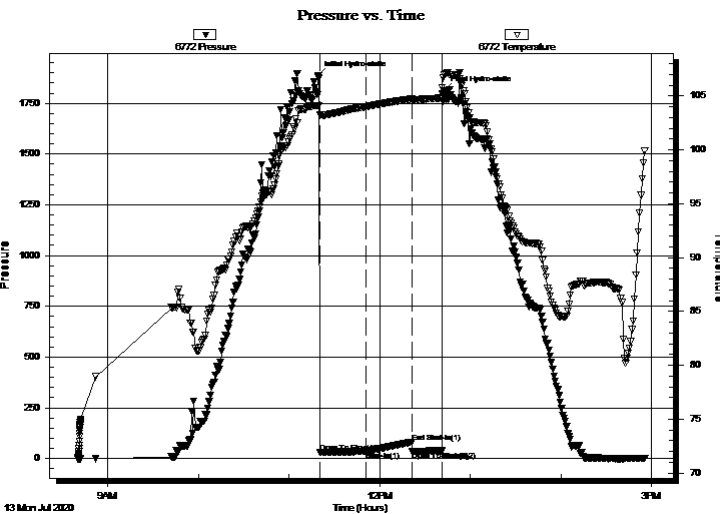
Time Off Btm:

2020.07.13 @ 12:42:40

TEST COMMENT: IF-30- built to 1" then died back to 1/2"

IS-30-no blow back

FF-15- w as dead w hen opened



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.86	104.08	Initial Hydro-static
1	30.09	103.23	Open To Flow (1)
32	34.82	104.01	Shut-In(1)
62	79.87	104.73	End Shut-In(1)
63	36.96	104.70	Open To Flow (2)
82	38.28	104.83	Shut-In(2)
84	1812.99	107.00	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65764

DST#: 2

ATTN: Jason Alm

Test Start: 2020.07.13 @ 08:40:00

Tool Information

Drill Pipe:	Length: 3521.00 ft	Diameter: 3.80 inches	Volume: 49.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 114.00 ft	Diameter: 2.25 inches	Volume: 0.56 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3641.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3616.00	
Shut In Tool	5.00			3621.00	
Hydraulic tool	5.00			3626.00	
EM	4.00			3630.00	
Safety Joint	2.00			3632.00	
Packer	5.00			3637.00	26.00 Bottom Of Top Packer
Packer	4.00			3641.00	
Stubb	1.00			3642.00	
Recorder	0.00	6772	Inside	3642.00	
Recorder	0.00	6769	Outside	3642.00	
Perforations	19.00			3661.00	
Change Over Sub	1.00			3662.00	
Drill Pipe	64.00			3726.00	
Change Over Sub	1.00			3727.00	
Bullnose	3.00			3730.00	89.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65764

DST#: 2

ATTN: Jason Alm

Test Start: 2020.07.13 @ 08:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

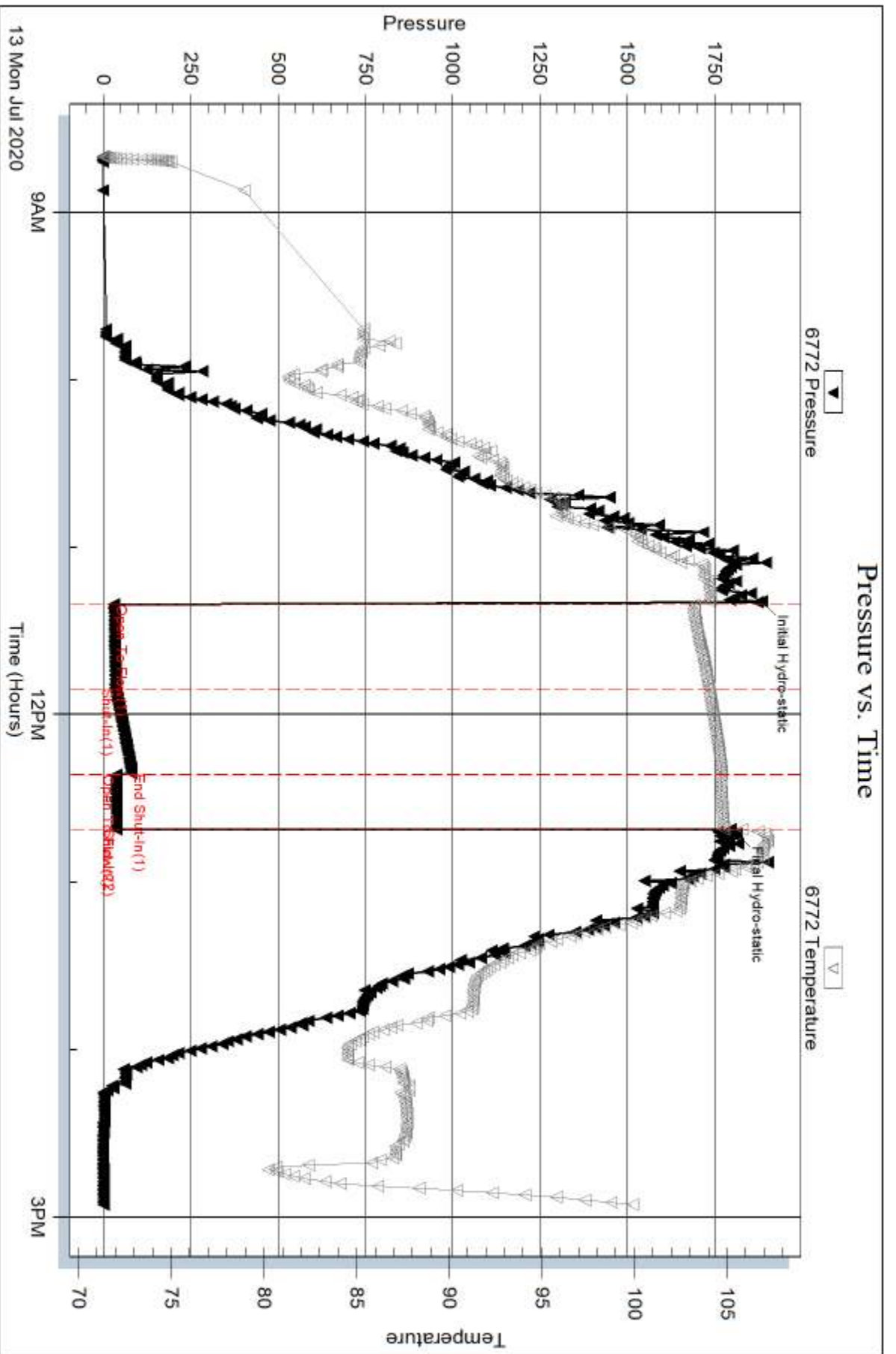
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

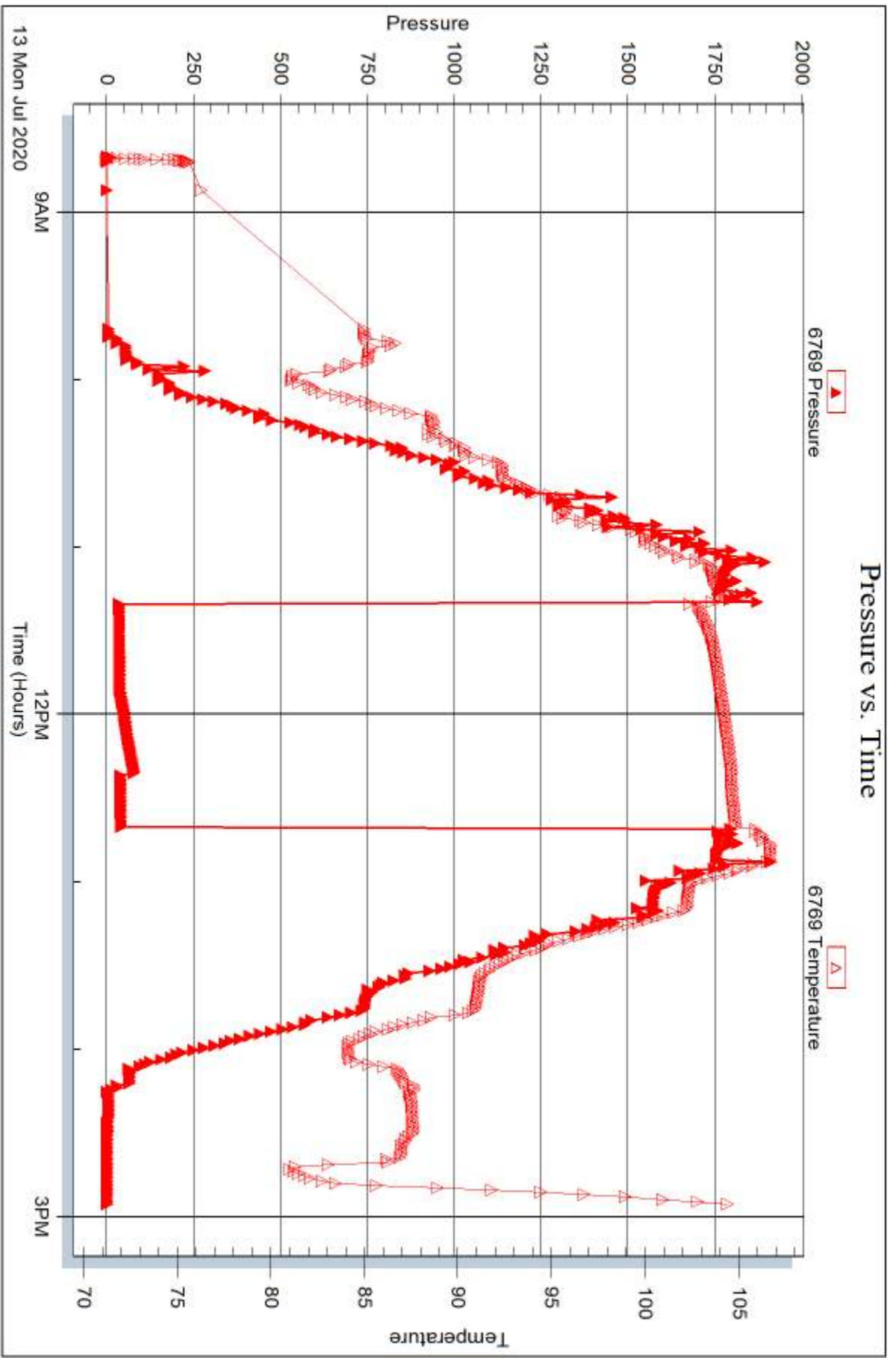


Serial #: 6769

Outside Stratakan Exploration LLC

Thompson #29-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65764

Printed: 2020.07.15 @ 15:14:58



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

100 S. Main St
Plainville KS 67663+2234

ATTN: Jason Alm

Thompson #29-1

29-21s-14w Stafford,KS

Start Date: 2020.07.13 @ 23:21:00

End Date: 2020.07.14 @ 07:17:50

Job Ticket #: 65765 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.07.15 @ 15:14:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65765

DST#: 3

ATTN: Jason Alm

Test Start: 2020.07.13 @ 23:21:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:40

Time Test Ended: 07:17:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 3720.00 ft (KB) To 3765.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3765.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6772 Inside

Press@RunDepth: 42.12 psig @ 3727.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.07.13

End Date:

2020.07.14

Last Calib.: 2020.07.14

Start Time: 23:21:01

End Time:

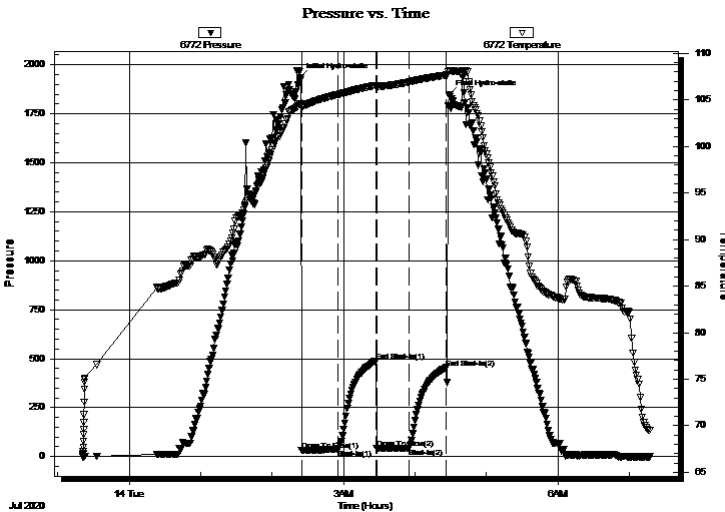
07:17:50

Time On Btm: 2020.07.14 @ 02:23:40

Time Off Btm: 2020.07.14 @ 04:29:00

TEST COMMENT: IF-30- 1/4" blow
IS-30- no blow back
FF-30- w as dead w hen opened
FS-30- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.28	104.56	Initial Hydro-static
1	31.63	104.20	Open To Flow (1)
32	35.17	105.57	Shut-In(1)
64	487.81	106.55	End Shut-In(1)
65	40.78	106.36	Open To Flow (2)
92	42.12	106.92	Shut-In(2)
123	453.52	107.66	End Shut-In(2)
126	1849.30	108.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65765

DST#: 3

ATTN: Jason Alm

Test Start: 2020.07.13 @ 23:21:00

Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 114.00 ft	Diameter: 2.25 inches	Volume: 0.56 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 50.83 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3720.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3689.00	
Shut In Tool	5.00			3694.00	
Hydraulic tool	5.00			3699.00	
Jars	5.00			3704.00	
EM Tool	5.00			3709.00	
Safety Joint	2.00			3711.00	
Packer	5.00			3716.00	32.00 Bottom Of Top Packer
Packer	4.00			3720.00	
Stubb	1.00			3721.00	
Perforations	5.00			3726.00	
Change Over Sub	1.00			3727.00	
Recorder	0.00	6772	Inside	3727.00	
Recorder	0.00	6769	Outside	3727.00	
Drill Pipe	32.00			3759.00	
Change Over Sub	1.00			3760.00	
Perforations	2.00			3762.00	
Bullnose	3.00			3765.00	45.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

29-21s-14w Stafford,KS

100 S. Main St
Plainville KS 67663+2234

Thompson #29-1

Job Ticket: 65765

DST#: 3

ATTN: Jason Alm

Test Start: 2020.07.13 @ 23:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

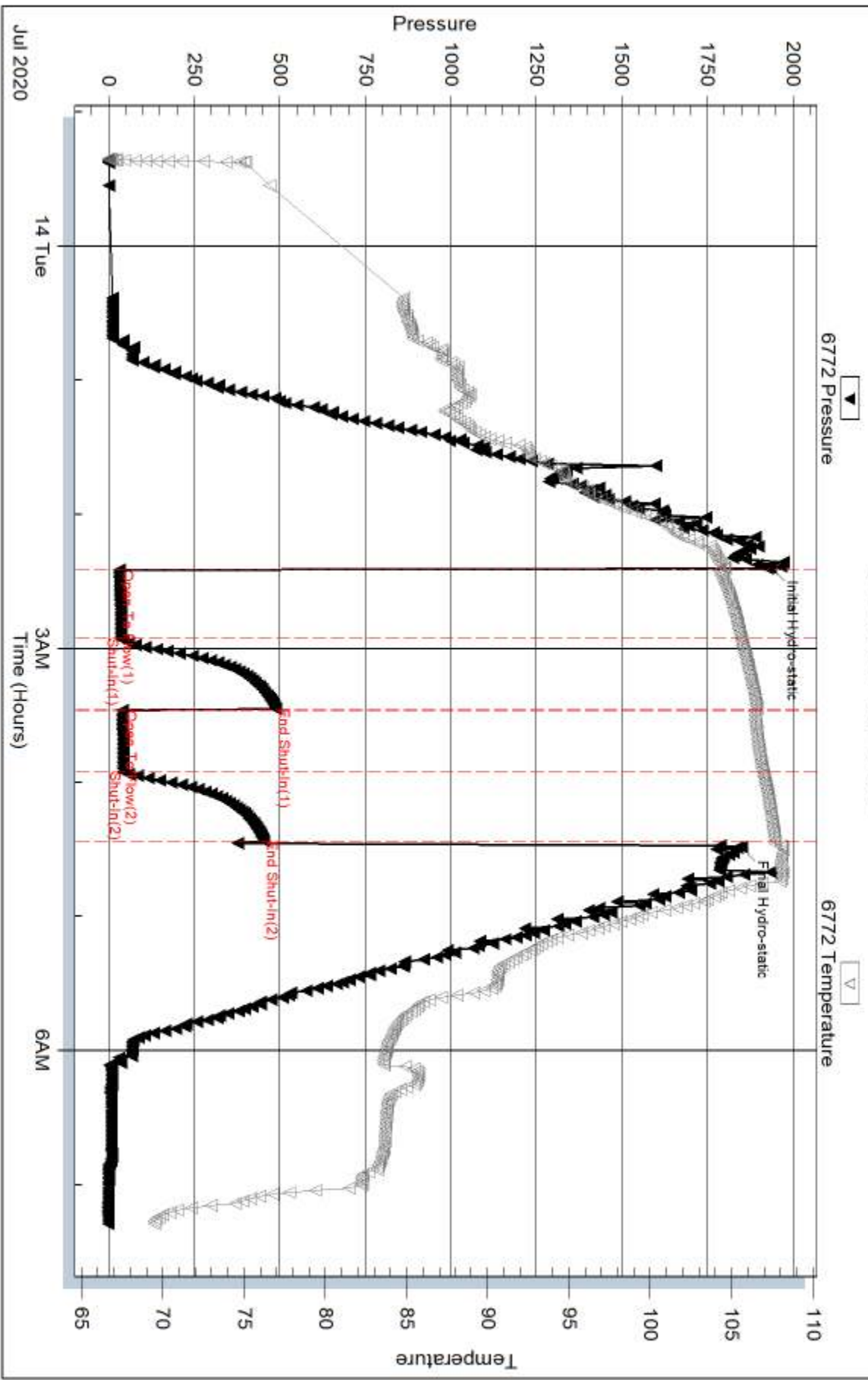
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

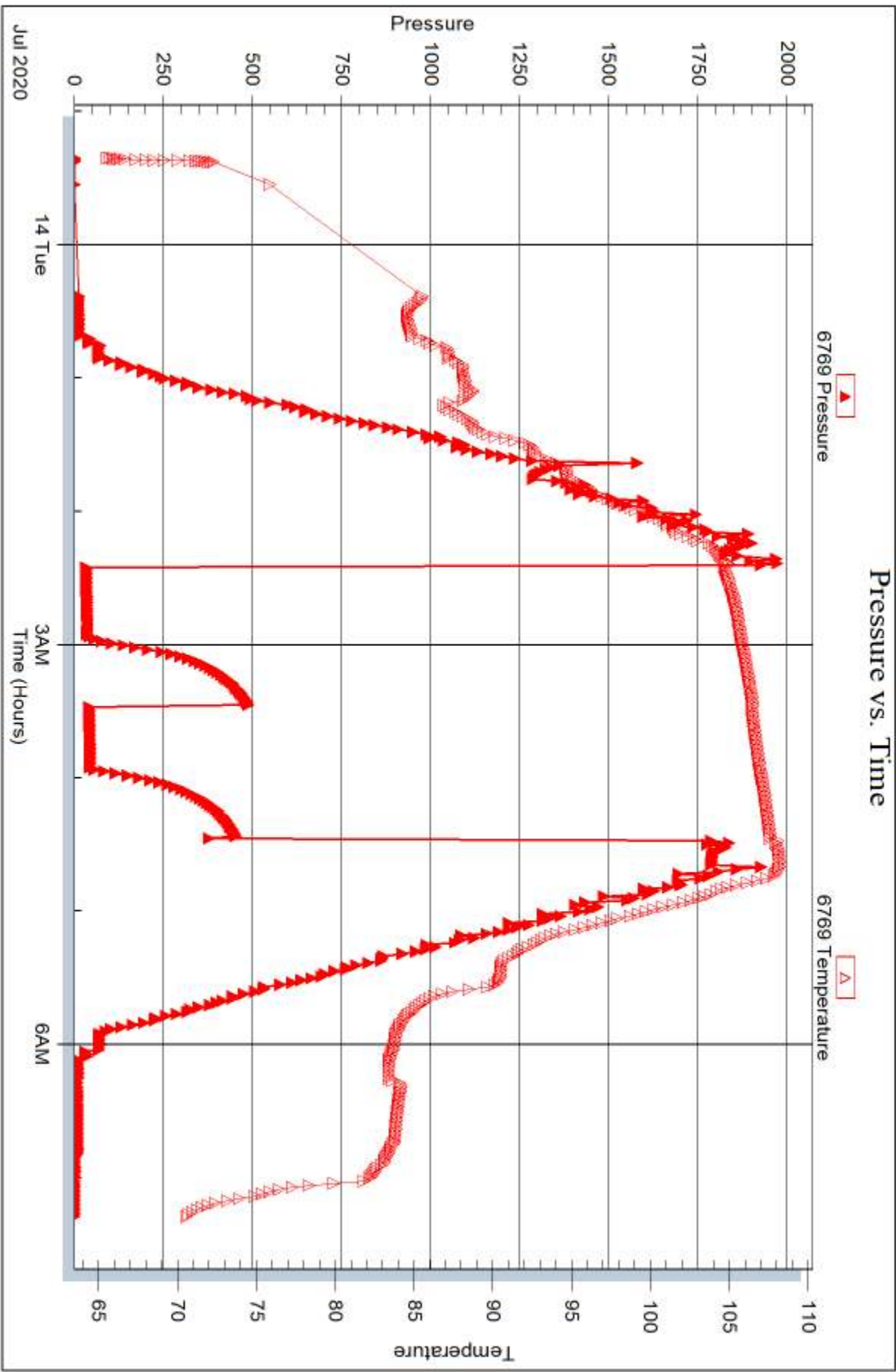


Serial #: 6769

Outside Stratakan Exploration LLC

Thompson #29-1

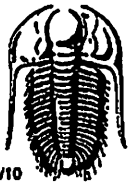
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65765

Printed: 2020.07.15 @ 15:14:24



TRILOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket 65763

NO.

Well Name & No. Thompson #29-1 Test No. 1 Date 7-12-20
 Company STretakan Exploration LLC Elevation 1952 KB 1941 GL
 Address 100 S main St Plainville KS 67663 + 2234
 Co. Rep / Geo. Jason Alm Rig WW 14
 Location: Sec. 29 Twp 21s Rge. 14W Co. Stefford State KS

Interval Tested 3574-3600 Zone Tested LKC "J"
 Anchor Length 26' Drill Pipe Run 3457 Mud Wt. 9.2
 Top Packer Depth 3369 Drill Collars Run 114 Vls 48
 Bottom Packer Depth 3574 Wt. Pipe Run --- WL 9.2
 Total Depth 3600 Chlorides 5500 ppm System LCM 2#

Blow Description IF - Built to 10"
IST - no blow back
FF - Built to 9"
FSTU weak surface blow back

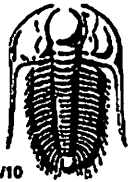
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>HOCM</u>	<u>5</u>	<u>35</u>	<u>60</u>	<u>60</u>
<u>60</u>	<u>OCM</u>	<u>5</u>	<u>15</u>	<u>80</u>	<u>80</u>
<u>---</u>	<u>GIP 60'</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 120 BHT 108 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1829 Test 1200 T-On Location 9:55 AM
 (B) First Initial Flow 21 Jars T-Started 12:05 PM
 (C) First Final Flow 38 Safety Joint 75 T-Open 2:58
 (D) Initial Shut-In 645 Circ Sub T-Pulled 5:58
 (E) Second Initial Flow 47 Hourly Standby T-Out 8:15
 (F) Second Final Flow 55 Mileage³⁶ 36 mi RT Comments ---
 (G) Final Shut-In 606 Sampler ---
 (H) Final Hydrostatic 1751 Straddle ---
 Shale Packer --- EM Tool 12:14:75 8:09 cont
 Extra Packer --- Ruined Shale Packer ---
 Extra Recorder --- Ruined Packer ---
 Day Standby --- Sub Total 0
 Accessibility --- Total 1311
 Sub Total 1311 MP/DST Disc't ---

Approved By --- Our Representative Benny Puga

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65764

NO.

Well Name & No. Thompson #29-1 Test No. 2 Date 7-13-20
 Company Stratagan Exploration LLC Elevation 1952 KB 1941 GL
 Address 100 S main St Plainville KS 67663+2234
 Co. Rep / Geo. Jason Alm Rig WW 14
 Location: Sec. 29 Twp 21S Rge. 14w Co. Stafford State KS

Interval Tested 3641-3730 Zone Tested Viola
 Anchor Length 89' Drill Pipe Run 3521 Mud Wt. 9.2
 Top Packer Depth 3636 Drill Collars Run 114 Vls 48
 Bottom Packer Depth 3641 Wt. Pipe Run _____ WL 11.2
 Total Depth 3730 Chlorides 10,000 ppm System LCM 2#
 Blow Description IF - built to 1" then died back to 1/2"
IST - no blow back
FF - was dead when opened
FST -

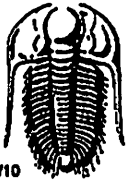
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1885 Test 1200 T-On Location _____
 (B) First Initial Flow 30 Jars _____ T-Started 8:40 AM
 (C) First Final Flow 34 Safety Joint 75 T-Open 11:20
 (D) Initial Shut-In 79 Circ Sub _____ T-Pulled 12:40 PM
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 2:56
 (F) Second Final Flow 38 Mileage 36 36mi RT Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1812 Straddle _____ EM Tool 350
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In _____ Day Standby _____ Sub Total 0
 Sub Total 1311 Accessibility _____ Total 1311
 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65765

NO.

Well Name & No. Thompson #29-1 Test No. 3 Date 7-13-20
 Company Strataken Exploration LLC Elevation 1952 KB 1941 GL
 Address 100 S Main St Plainville, KS 67663+7234
 Co. Rep / Geo. Jason Alm Rig WW14
 Location: Sec. 28 Twp 21S Rge. 14W Co. STAFFORD State KS

Interval Tested 3720 - 3765 Zone Tested Simpson Sand
 Anchor Length 45' Drill Pipe Run 3584 Mud Wt. 9.2
 Top Packer Depth 3715 Drill Collars Run 114 Vls 48
 Bottom Packer Depth 3720 Wt. Pipe Run --- WL 11.2
 Total Depth 3765 Chlorides 10000 ppm System LCM 2*

Blow Description IF 1/4" blow
FST - no blow back
FF - was dead when opened
FST - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1935 Test 1200 T-On Location 9:04 PM
 (B) First Initial Flow 31 Jars 250 T-Started 11:21
 (C) First Final Flow 35 Safety Joint 75 T-Open 2:25
 (D) Initial Shut-In 487 Circ Sub _____ T-Pulled 7:25
 (E) Second Initial Flow 40 Hourly Standby _____ T-Out 7:18
 (F) Second Final Flow 42 Mileage 36 mi RT 72 Comments Loaded tools
 (G) Final Shut-In 453 Sampler _____ 12:00 AM 7-15-2020
 (H) Final Hydrostatic 1849 Straddle _____ EM Tool 11:31 JS 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1597 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Geologic Report

Drilling Time and Sample Log

Operator StrataKan Exploration, LLC.		Elevation 1952'	
Lease Thompson No. 29-1		KB 2141'	
API # 15-185-24070-0000		GL 2141'	
Field Bayer		Production 5 1/2" @ 3887'	
Location 910 FNL & 1900' FWL		Electrical Surveys	
Sec. 29	Twp. 21s	Rge. 14w	CNL/CDL, DIL, MEL
County Stafford	State Kansas		
Formation	Sample tops	Log Tops	Datum Struct Comp
Anhydrite	880'	870'	+1082 +1072 +10
Base	907'	892'	+1060
Heebner	3296'	3290'	-1338 -1342 +4
Toronto	3318'	3311'	-1359 -1364 +5
Douglas	3335'	3329'	-1377 -1382 +5
Brown Lime	3411'	3404'	-1452 -1458 +6
Lansing	3420'	3414'	-1462 -1468 +6
BKC	3644'	3640'	-1688 -1691 +3
Viola	3783'	3678'	-1726 -1733 +7
Simpson	3730'	3726'	-1774 -1776 +2
Simpson Sand	3742'	3737'	-1785 -1788 +3
Arbuckle	3786'	3778'	-1826 -1834 +8
Total Depth	3890'	3888'	-1936

Reference Well For Structural Comparison Westgate Greenland Weirauch #1
990' FNL & 1650' FWL Sec. 29 T21s R14w Stafford County, Kansas

Drilling Contractor	Murfin Drilling Co. Rig #114	
Commenced	7-8-2020	Completed 7-15-2020
Samples Saved From	3100'	To RTD
Drilling Time Kept From	3100'	To RTD
Samples Examined From	3100'	To RTD
Geological Supervision From	3100'	To RTD

Displacement **2800'**
Mud Type **Chemical**

Summary and Recommendations

The location for the Thompson #29-1 was found via subsea survey. The new well ran as expected via the survey. After all gathered data had been examined the decision was made to run 5 1/2 inch production to further evaluate the Thompson #29-1 well.

Recommended Perforations:
 Arbuckle 3884' - 3886'
 Simpson Lower 3746' - 3752'
 Simpson Upper 3738' - 3743'
 LKC J 3571' - 3581'

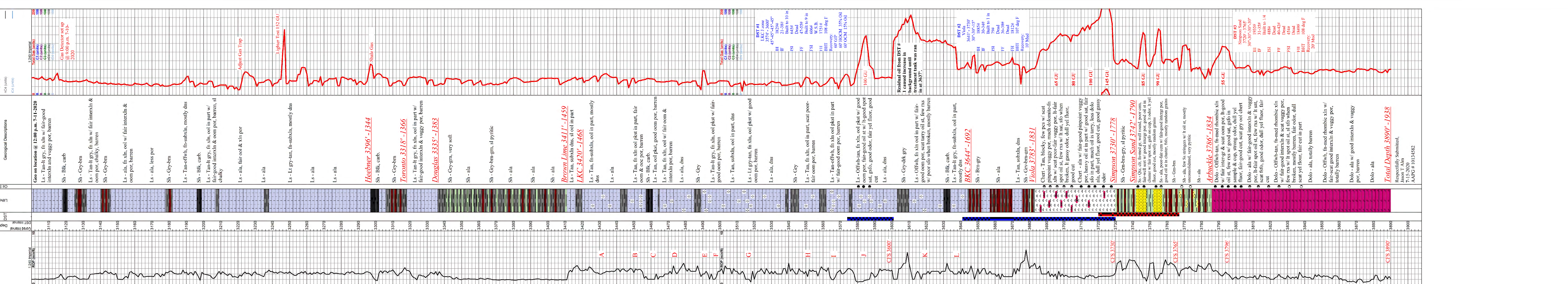
Respectfully Submitted,

 Jason T Alm
 Hard Rock Consulting, Inc.

ROCK TYPES	shale, red	SS
	shale, gray	
	Carbon Sh	
ACCESSORIES	limst fwr/ shale, grn	
	Chrt	
	Dolprim	

STRINGER	Dolomite	Sandstone
OIL SHOWS	DST Int	DST alt
	Spotted Sm 50-75%	Spotted Sm 25-50%
	Core	lan pipe
	Questionable Sm	Dead Oil Sm
	Fluorescence	

OTHER SYMBOLS	Oil Shows	Lithology	DST	Depth Interval	Curve Track #1
----------------------	-----------	-----------	-----	----------------	----------------



Respectfully Submitted,
 Jason T Alm
 7-15-2020
 AAPG # 10134882

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1369

Date	7-15-20	Sec.	29	Twp.	21	Range	14	County	Stafford	State	KS	On Location		Finish	2:45p
Location								Padron 2N 1/2E Sinto							

Lease	Thompson	Well No.	29-1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Martin #114	Top Stage		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	DV 305			Charge To	Stratakan Exploration
Hole Size	778	T.D.	3900	Street	
Csg.	5 1/2	Depth	3873	City	
Tbg. Size		Depth		State	
Tool	DV Tool	Depth	891	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	200 80/20 QMDC 1/2 #10
Meas Line		Displace	21 1/4 B		

EQUIPMENT

Pumptrk	5	No.	Cementor	5	Common	200 80/20 QMDC
			Helper		Poz. Mix	
Bulktrk		No.	Driver	1	Gel.	
			Driver		Calcium	
Bulktrk	14	No.	Driver	1	Hulls	
			Driver	1	Salt	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	Flowseal 100#
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
DV Tool @ 891 - Mix 200SK 0	Handling 200
Displace Plug	Mileage

FLOAT EQUIPMENT

Cement Circulated	Guide Shoe
Plug landed @ 1500'	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	prod string	Top Stage
Mileage	10	

X Signature	Scott Poland	Tax	
		Discount	
		Total Charge	

Thanks

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1368

Date	7-15-20	Sec.	29	Twp.	21	Range	14	County	Stafford	State	KS	On Location		Finish	215pm
Location								Radium 2N 170 RD 1/2E Sinto							

Lease	Thompson	Well No.	29-1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Murfin #114	Type Job	Production string	Hole Size	7 7/8
Csg.	5 1/2	Depth	3873	Charge To	Strata Kan Exploration
Tbg. Size		Depth		Street	
Tool	DV Tool	Depth	891	City	
Cement Left in Csg.	44	Shoe Joint	44	State	
Meas Line		Displace	91BL	The above was done to satisfaction and supervision of owner agent or contractor.	
			Cement Amount Ordered 220 Q-Pro-C 10/Salt		
			5/ Gilsnite 1/4# 500gal mud clar		

EQUIPMENT					
Pumptrk	75	No.	Cement	Common	220 Q proc
			Helper	Poz. Mix	
Bulktrk		No.	Driver	Gel.	
			Driver	Calcium	
Bulktrk	9	No.	Driver	Hulls	
			Driver	Salt	18

JOB SERVICES & REMARKS	
Remarks:	
Rat Hole	3RSK
Mouse Hole	125SK 20SK
Centralizers	
Baskets	
DV or Port Collar	
	5 1/2 set @ 3873. Ins @ 3829
	Est. Circulation. Pump 500gal mud clar.
	Plug Rathoke mouse hole. Cement
	5 1/2 with 125SK. Clear lines
	Displace Plug.
	Plug landed @ 1500'
	L.P. Pressure - 800'
	Drop Dent & open DV Tool.
	Flowseal 50#
	Kol-Seal 1100#
	Mud CLR 48 500 gal
	CFL-117 or CD110 CAF 38
	Sand
	Handling 239
	Mileage

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	10# Turb's
Baskets	32
Aft Inserts	DV Tool
Float Shoe	1
Latch Down	1

Pumptrk Charge	prod string	Bottom stage
Mileage	20	
Signature		Thanks
Tax		
Discount		
Total Charge		

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

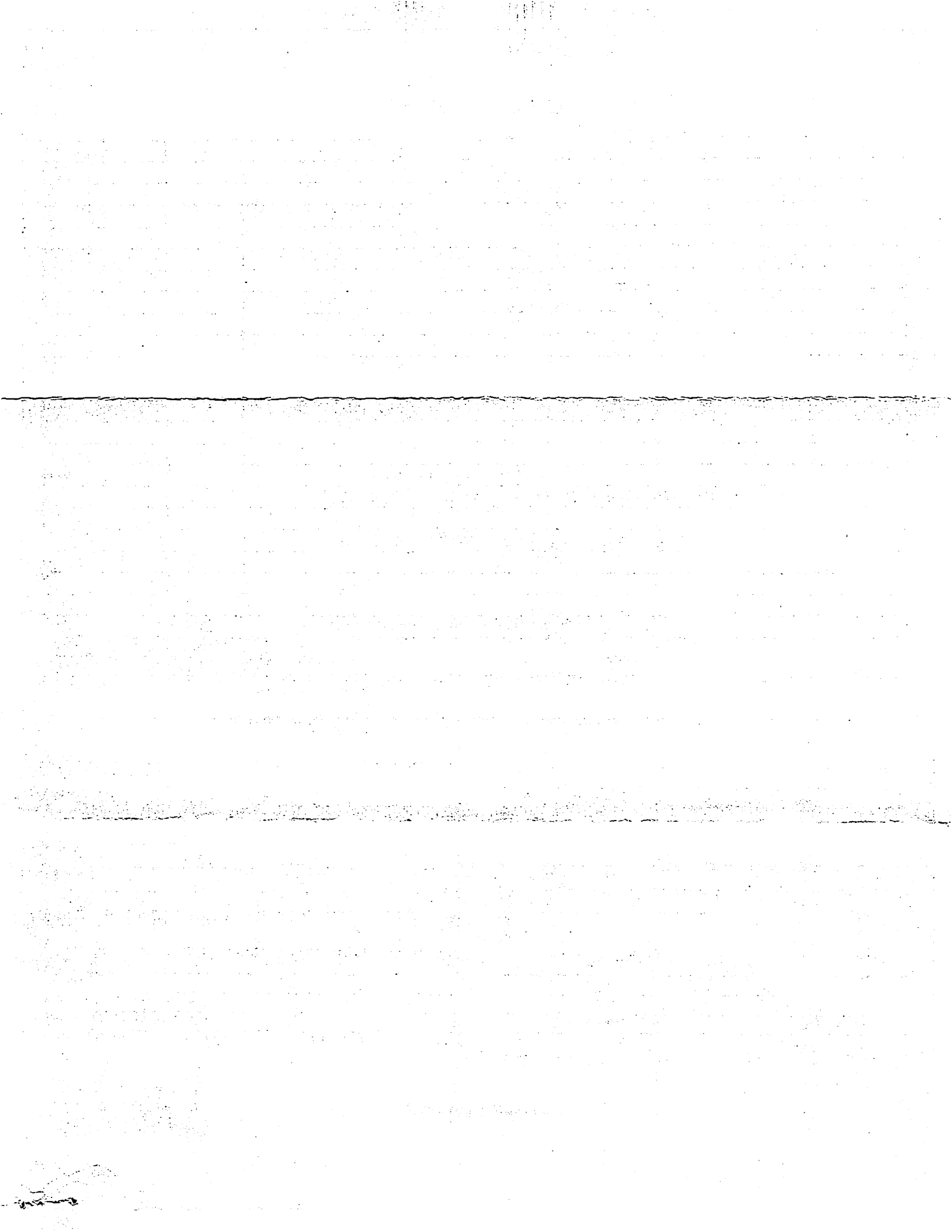
3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

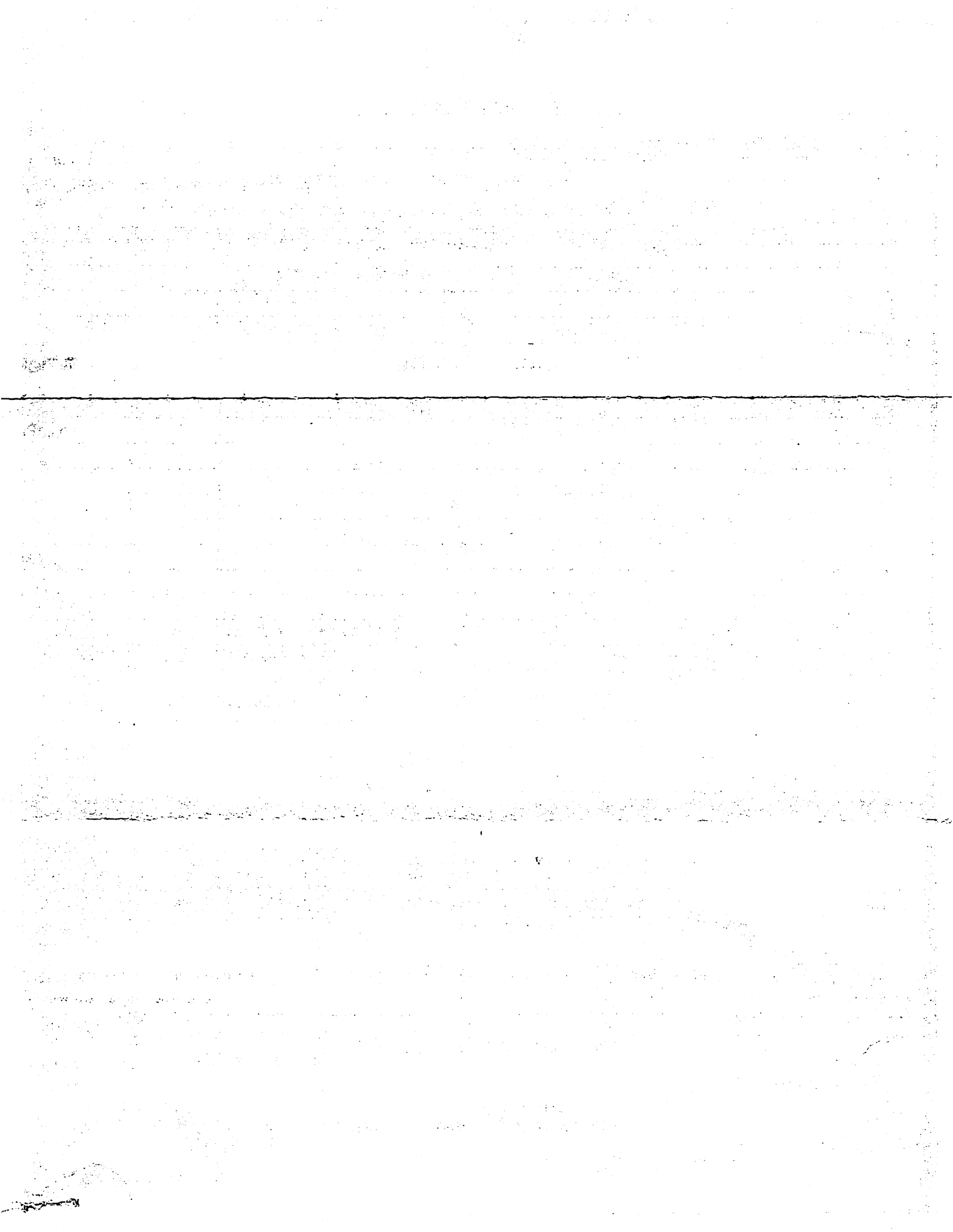
WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.





<u>Formation</u>	<u>Sample Top</u>	<u>Log Top</u>	<u>Datum</u>	<u>Comp 15-185-20480</u>	<u>Comp 15-185-00017</u>
Stone Corral	880	870	1082	7	12
B/Stone Corral	907	892	1060	12	16
Heebner	3296	3290	-1338	2	4
Toronto	3318	3311	-1359	4	10
Douglas	3335	3339	-1387	-7	2
Brown Lime	3411	3404	-1452	3	5
Lansing	3420	3414	-1462	4	6
Viola	3683	3678	-1726	Even	6
Simpson	3730	3726	-1774	Even	Even
Simpson SS Upper	3742	3737	-1785	-1	5
Arbuckle	3786	3779	-1827	-1	7
RTD	3890	3888	-1936		

Datums adjusted to E-Log tops Green= Higher Structure Red= Lower