

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
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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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Form	ACO1 - Well Completion
Operator	Jolen Operating Company
Well Name	EVANS 1
Doc ID	1364062

All Electric Logs Run

Caliper
Sonic
Induction
Neutron-Density
Micro





# MUD LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: EVANS 1-16  
 API: 15-0  
 Location: Sec 16, T30S-R21W CLARK CO, KS

License Number:  
 Spud Date: 08/14/2017  
 Surface Coordinates: 37.4348892

Region: WILDCAT  
 Drilling Completed: 08/19/2017  
 -99.6226315

Bottom Hole  
 Coordinates:  
 Ground Elevation (ft): 2313'  
 Logged Interval (ft): 4100'  
 Formation: PENN & MISS  
 Type of Drilling Fluid: WATER BASED MUD, FOSSIL FLUIDS, LLC JACK STAPELTON

K.B. Elevation (ft): 2326'  
 Total Depth (ft): 5360'

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: JOLEN OPERATING  
 Address: ATTN: CHRISTOPHER ALTHOFF

## GEOLOGIST

Name: JEFF & DIANE DONATHAN  
 Company: DJ'S MUDLOGGING  
 Address: 6525 NW 16TH  
 OKLAHOMA CITY, OK 73127  
 (405)740-2602

## ROCK TYPES

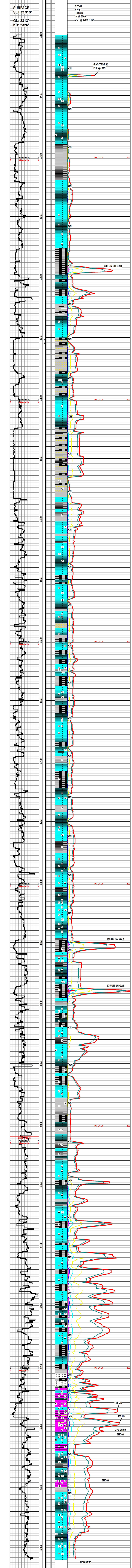
Siltysh	Cht	Gyp	Salt	Ss
Carbsh	Clst	Igne	Shale	Till
Anhy	Coal	Lmst	Shcol	
Bent	Congl	Meta	Shgy	
Brec	Dol	Mrlst	Slst	

## ACCESSORIES

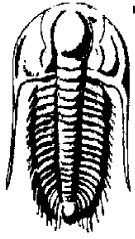
MINERAL	Gyp	FOSSIL	Ostra	Sltstrg
Anhy	Hvymn	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	Boundst
Bent	Marxl	Belm	Pisollite	Chaiky
Bit	Minxl	Bioclst	Plant	Cryxin
Brecfrag	Nodule	Brach	Strom	Earthy
Calc	Phos	Bryozoa	STRINGER	Finexin
Carb	Pyr	Cephal	Anhy	Grainst
Chttk	Salt	Coral	Arg	Lithogr
Chttt	Sandy	Crin	Bent	Microxin
Dol	Silt	Echin	Coal	Mudst
Feldspar	Sll	Fish	Dol	Packst
Ferrpel	Sulphur	Foram	Gyp	Wackest
Ferr	Tuff	Gastro	Ls	
Glau		Oolite	Mrst	

## OTHER SYMBOLS

POROSITY	Vuggy	ROUNDING	Spotted	EVENT
Earthy	Well	Rounded	Ques	Rft
Fracture	Moderate	Subrnd	Dead	Sidewall
Inter	Poor	Subang	INTERVAL	
Moldic		Angular	Core	
Organic		OIL SHOW	Dst	
Pinpoint				







**TRILLOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Jolen Operating Co  
100 N Broadway Ave Ste 2460  
Oklahoma City, OK 73102  
ATTN: Dennis Pope

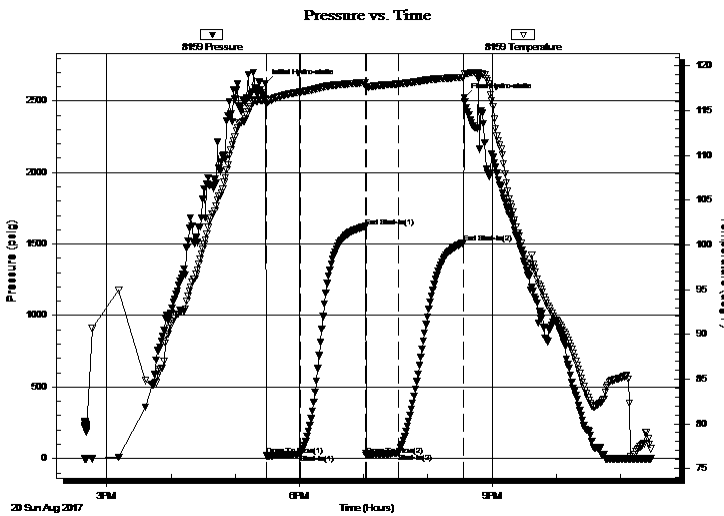
**16-30S-21W Clark**  
**Evans 1-16**  
Job Ticket: 63618      **DST#: 1**  
Test Start: 2017.08.20 @ 14:39:06

### GENERAL INFORMATION:

Formation: **St Louis**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 17:29:06  
Time Test Ended: 23:28:21  
Interval: **5240.00 ft (KB) To 5260.00 ft (KB) (TVD)**  
Total Depth: 5358.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Straddle (Initial)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2333.00 ft (KB)  
2320.00 ft (CF)  
KB to GR/CF: 13.00 ft

**Serial #: 8159      Inside**  
Press@RunDepth: 36.61 psig @ 5241.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.08.20      End Date: 2017.08.20      Last Calib.: 2017.08.20  
Start Time: 14:39:07      End Time: 23:28:21      Time On Btm: 2017.08.20 @ 17:28:21  
Time Off Btm: 2017.08.20 @ 20:34:06

**TEST COMMENT:** IF: Fair Blow, Built to 9 1/2 inches  
IS: No Blow Back  
FF: Fair Blow, BOB in 27 minutes  
FS: No Blow Back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2623.47	116.38	Initial Hydro-static
1	19.68	115.75	Open To Flow (1)
33	30.14	117.08	Shut-In(1)
94	1623.79	118.14	End Shut-In(1)
94	21.32	117.72	Open To Flow (2)
125	36.61	117.99	Shut-In(2)
185	1509.47	118.73	End Shut-In(2)
186	2523.74	119.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 GIP	0.00
60.00	WOCM 10%W 20%O 70%M	0.30

### Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Jolen Operating Co  
 100 N Broadway Ave Ste 2460  
 Oklahoma City, OK 73102  
 ATTN: Dennis Pope

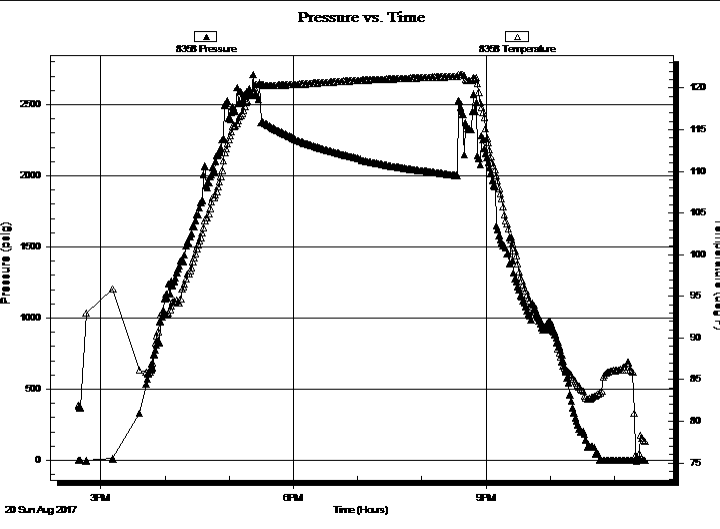
**16-30S-21W Clark**  
**Evans 1-16**  
 Job Ticket: 63618 **DST#: 1**  
 Test Start: 2017.08.20 @ 14:39:06

**GENERAL INFORMATION:**

Formation: <b>St Louis</b>				Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock:		ft (KB)		Tester: Leal Cason
Time Tool Opened: 17:29:06				Unit No: 74
Time Test Ended: 23:28:21				
<b>Interval: 5240.00 ft (KB) To 5260.00 ft (KB) (TVD)</b>				Reference Elevations: 2333.00 ft (KB)
Total Depth: 5358.00 ft (KB) (TVD)				2320.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good			KB to GR/CF: 13.00 ft

<b>Serial #: 8358</b>	<b>Below (Straddle)</b>			Capacity: 8000.00 psig
Press@RunDepth: psig @ 5290.00 ft (KB)				Last Calib.: 2017.08.20
Start Date: 2017.08.20	End Date: 2017.08.20			Time On Btm:
Start Time: 14:39:07	End Time: 23:29:06			Time Off Btm:

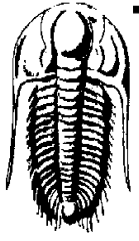
**TEST COMMENT:** IF: Fair Blow , Built to 9 1/2 inches  
 IS: No Blow Back  
 FF: Fair Blow , BOB in 27 minutes  
 FS: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	300 GIP	0.00
60.00	WOCM 10%W 20%O 70%M	0.30

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Jolen Operating Co  
100 N Broadway Ave Ste 2460  
Oklahoma City, OK 73102  
  
ATTN: Dennis Pope

**16-30S-21W Clark**  
**Evans 1-16**  
Job Ticket: 63618      **DST#: 1**  
Test Start: 2017.08.20 @ 14:39:06

## GENERAL INFORMATION:

Formation: **St Louis**  
Deviated: No Whipstock:                                  ft (KB)      Test Type: Conventional Straddle (Initial)  
Time Tool Opened: 17:29:06      Tester: Leal Cason  
Time Test Ended: 23:28:21      Unit No: 74  
  
Interval: **5240.00 ft (KB) To 5260.00 ft (KB) (TVD)**      Reference Elevations:      2333.00 ft (KB)  
Total Depth: 5358.00 ft (KB) (TVD)      2320.00 ft (CF)  
Hole Diameter: 7.88 inchesHole Condition: Good      KB to GR/CF: 13.00 ft

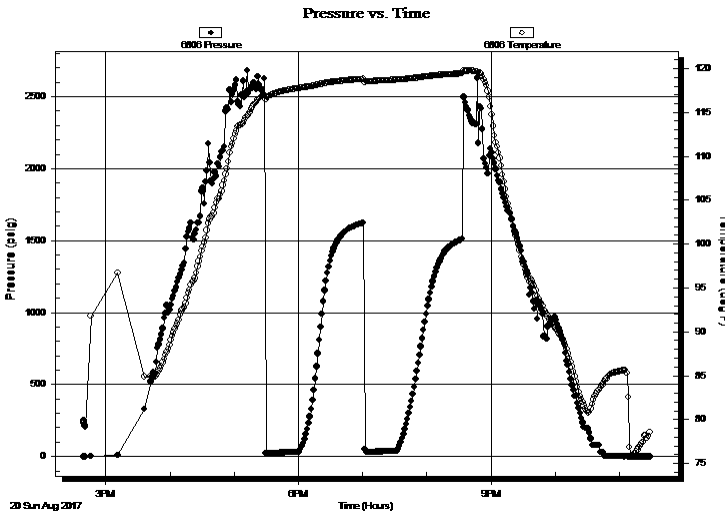
## Serial #: 6806

Outside

Press@RunDepth:                      psig @ 5241.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.08.20      End Date: 2017.08.20      Last Calib.: 2017.08.20  
Start Time: 14:39:07      End Time: 23:28:21      Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Fair Blow , Built to 9 1/2 inches  
IS: No Blow Back  
FF: Fair Blow , BOB in 27 minutes  
FS: No Blow Back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 GIP	0.00
60.00	WOCM 10%W 20%O 70%M	0.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Jolen Operating Co  
100 N Broadway Ave Ste 2460  
Oklahoma City, OK 73102  
ATTN: Dennis Pope

**16-30S-21W Clark**  
**Evans 1-16**  
Job Ticket: 63618      **DST#: 1**  
Test Start: 2017.08.20 @ 14:39:06

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

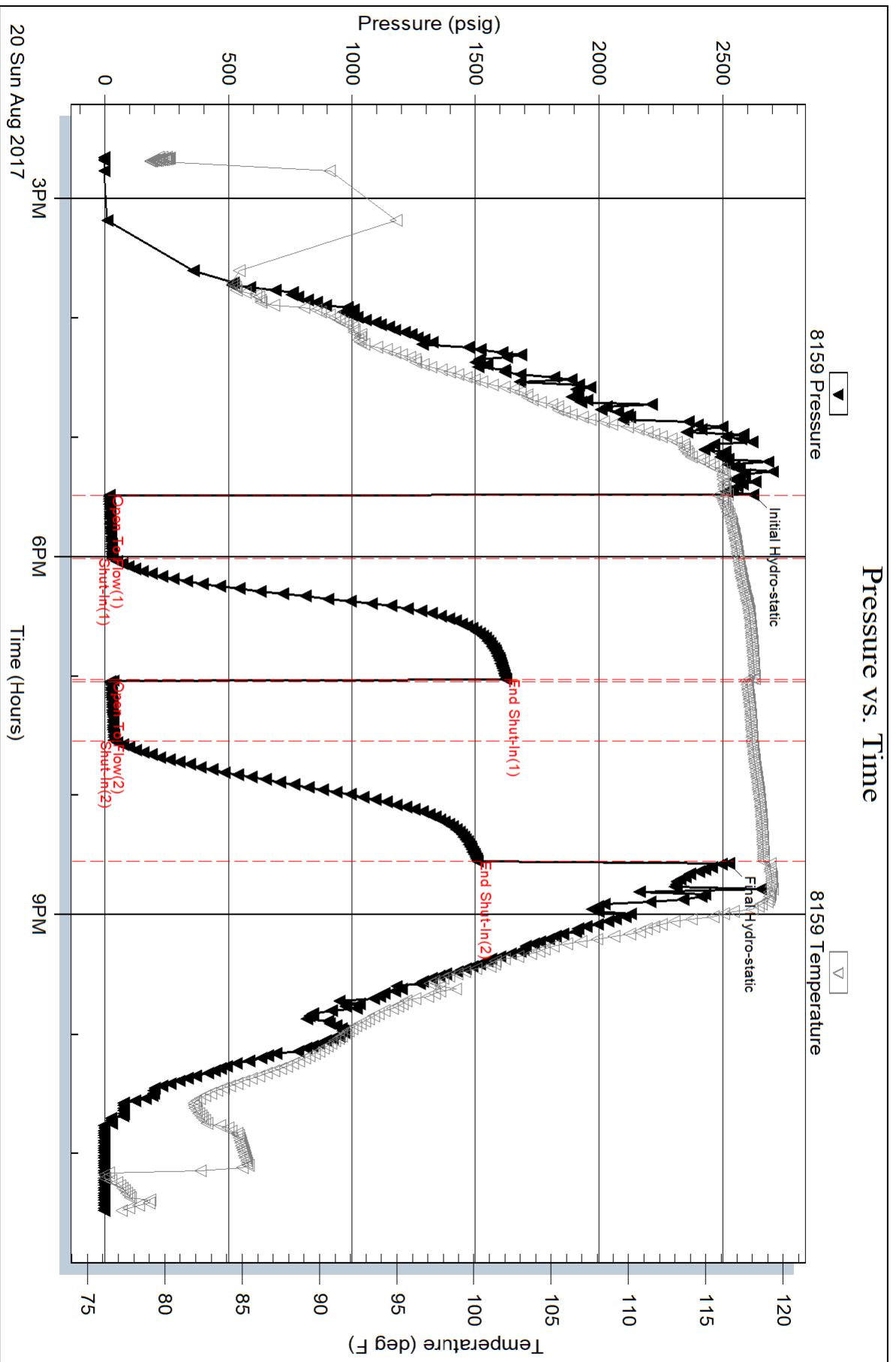
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300 GIP	0.000
60.00	WOCM 10%W 20%O 70%M	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

# Pressure vs. Time

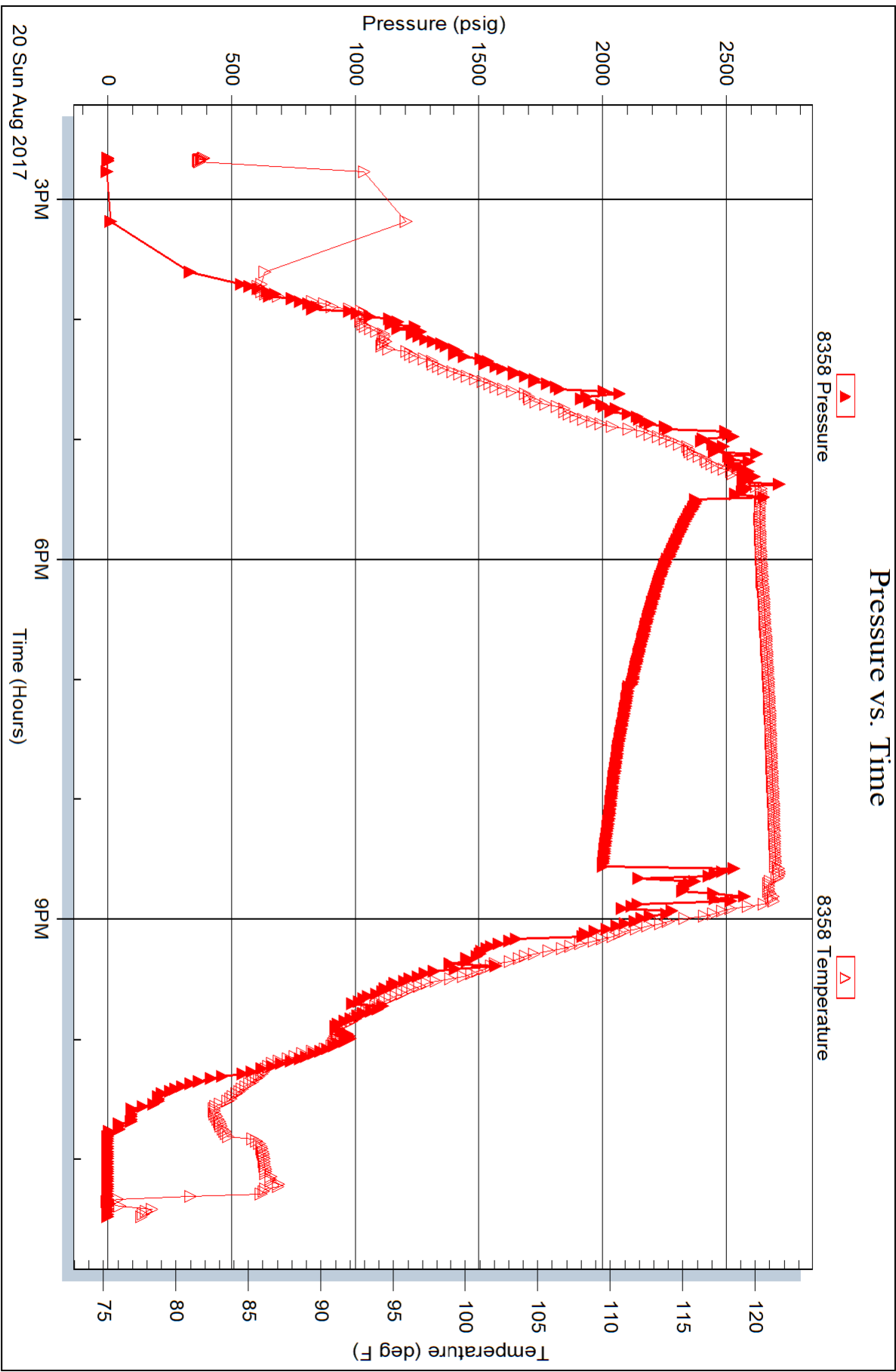


Serial #: 8358

Below (Stratate) Operating Co

Evans 1-16

DST Test Number: 1



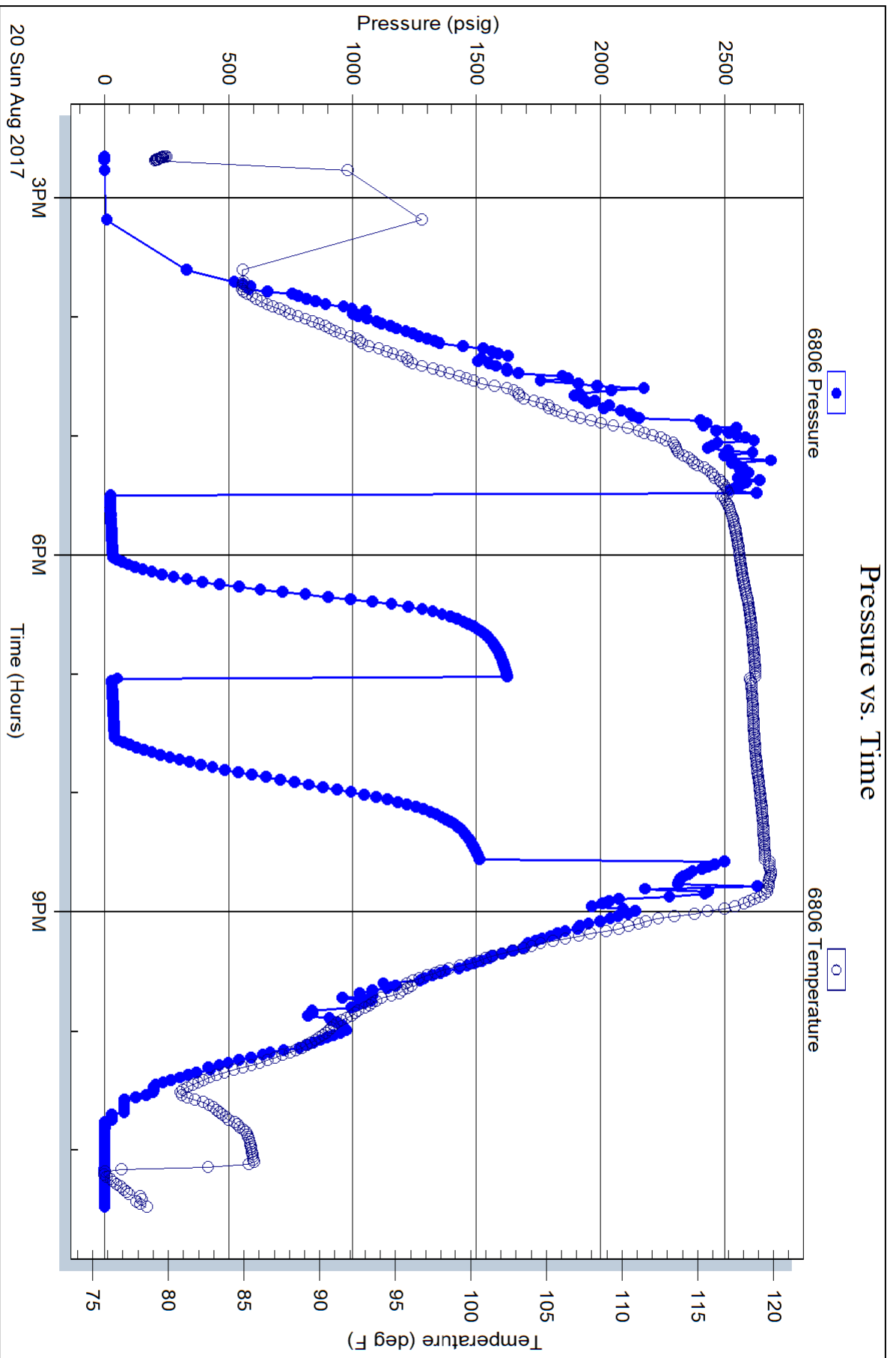


Serial #: 6806

Outside Jolen Operating Co

Evans 1-16

DST Test Number: 1











**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Jolen Operating Co  
 100 N Broadway Ave  
 Ste 2460  
 Oklahoma City, OK 73102  
 ATTN: Dennis Pope

**16-30S-21W Clark,KS**

**Evans #1-16**

Job Ticket: 63619      **DST#: 2**  
 Test Start: 2017.08.21 @ 00:03:01

### GENERAL INFORMATION:

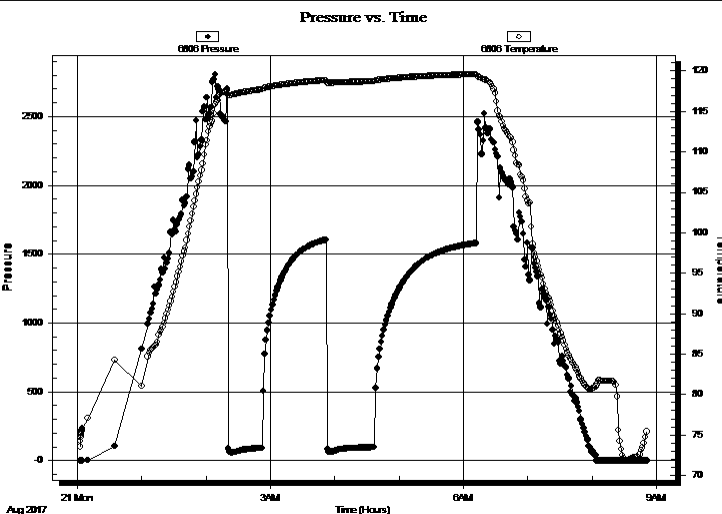
Formation:	<b>St Louis</b>		Test Type:	Conventional Straddle (Reset)
Deviated:	No Whipstock:	ft (KB)	Tester:	Leal Cason
Time Tool Opened:	02:21:46		Unit No:	74
Time Test Ended:	08:52:01			
<b>Interval:</b>	<b>5216.00 ft (KB) To 5240.00 ft (KB) (TVD)</b>		Reference Elevations:	2333.00 ft (KB)
Total Depth:	5358.00 ft (KB) (TVD)			2320.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF:	13.00 ft

**Serial #: 6806**

**Outside**

Press@RunDepth:	psig @ 5217.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.08.21	End Date:	2017.08.21
Start Time:	00:03:02	End Time:	08:52:01
		Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** IF: Strong Blow , BOB in 15 seconds, GTS in 13 minutes, Gauged & Caught Sample  
 IS: No Blow Back  
 FF: Strong Blow , BOB & GTS Immediate, Gauged Gas  
 FS: No Blow Back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
75.00	GOMCW 5%G 10%O 30%M 55%W	0.37

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	35.00	78.37
Last Gas Rate	0.25	55.00	110.10
Max. Gas Rate	0.25	55.00	110.10

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Jolen Operating Co

**16-30S-21W Clark,KS**

100 N Broadway Ave  
Ste 2460  
Oklahoma City, OK 73102  
ATTN: Dennis Pope

**Evans #1-16**

Job Ticket: 63619

**DST#: 2**

Test Start: 2017.08.21 @ 00:03:01

## 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:

98000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
75.00	GOMCW 5%G 10%O 30%M 55%W	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .07 @ 80 degrees



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Jolen Operating Co

**16-30S-21W Clark,KS**

100 N Broadway Ave  
Ste 2460  
Oklahoma City, OK 73102  
ATTN: Dennis Pope

**Evans #1-16**

Job Ticket: 63619

**DST#: 2**

Test Start: 2017.08.21 @ 00:03:01

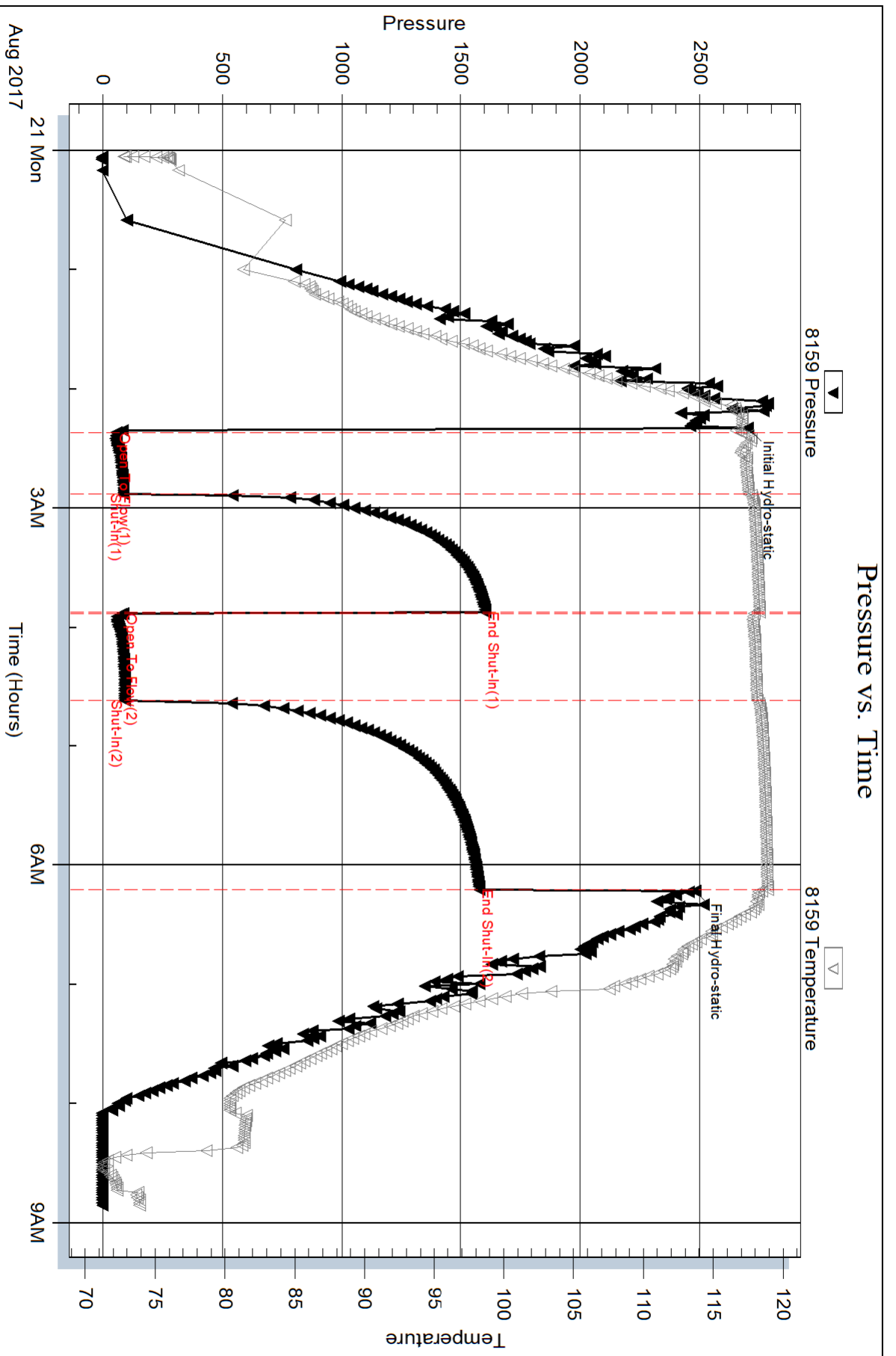
### Gas Rates Information

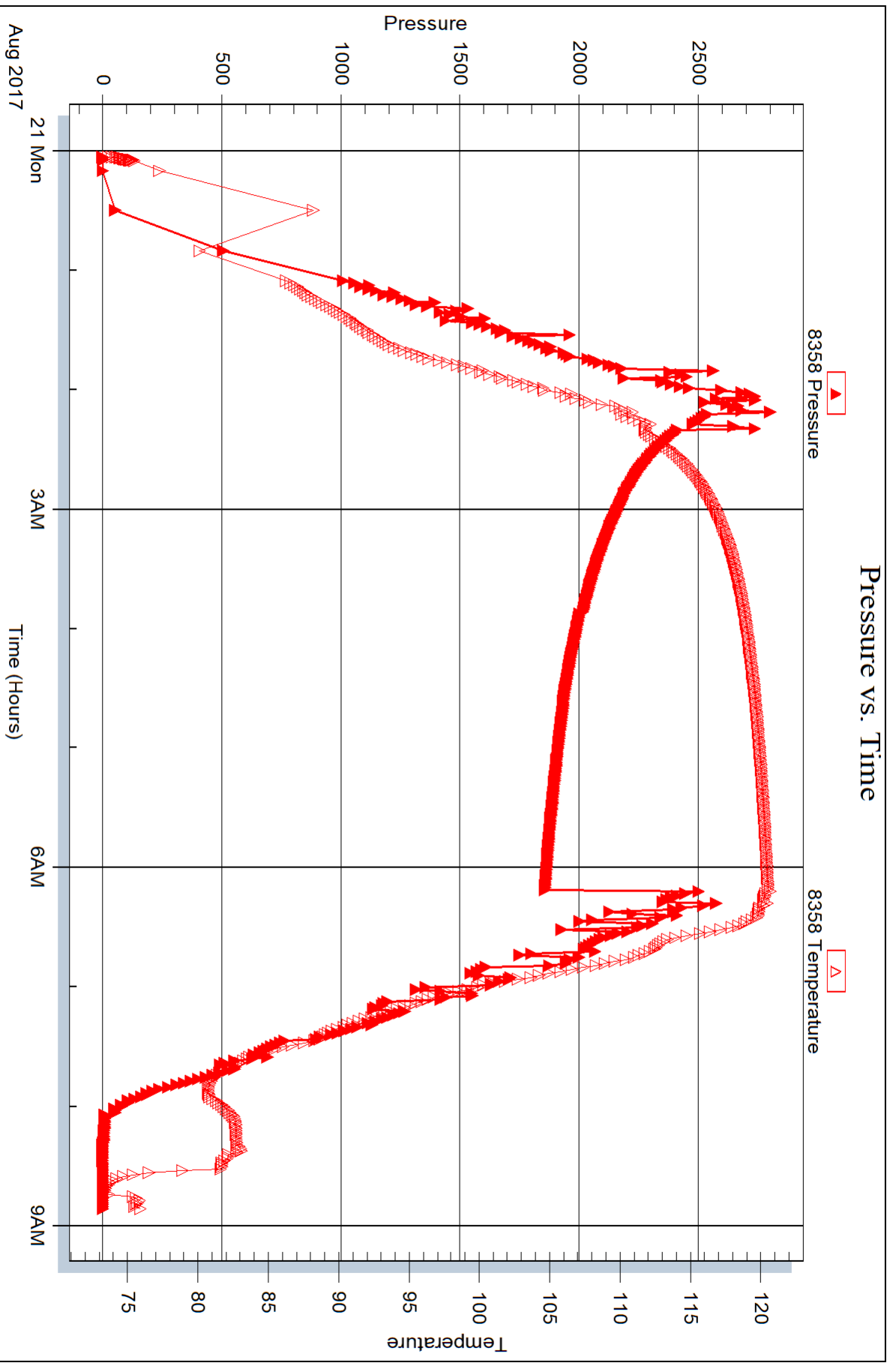
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

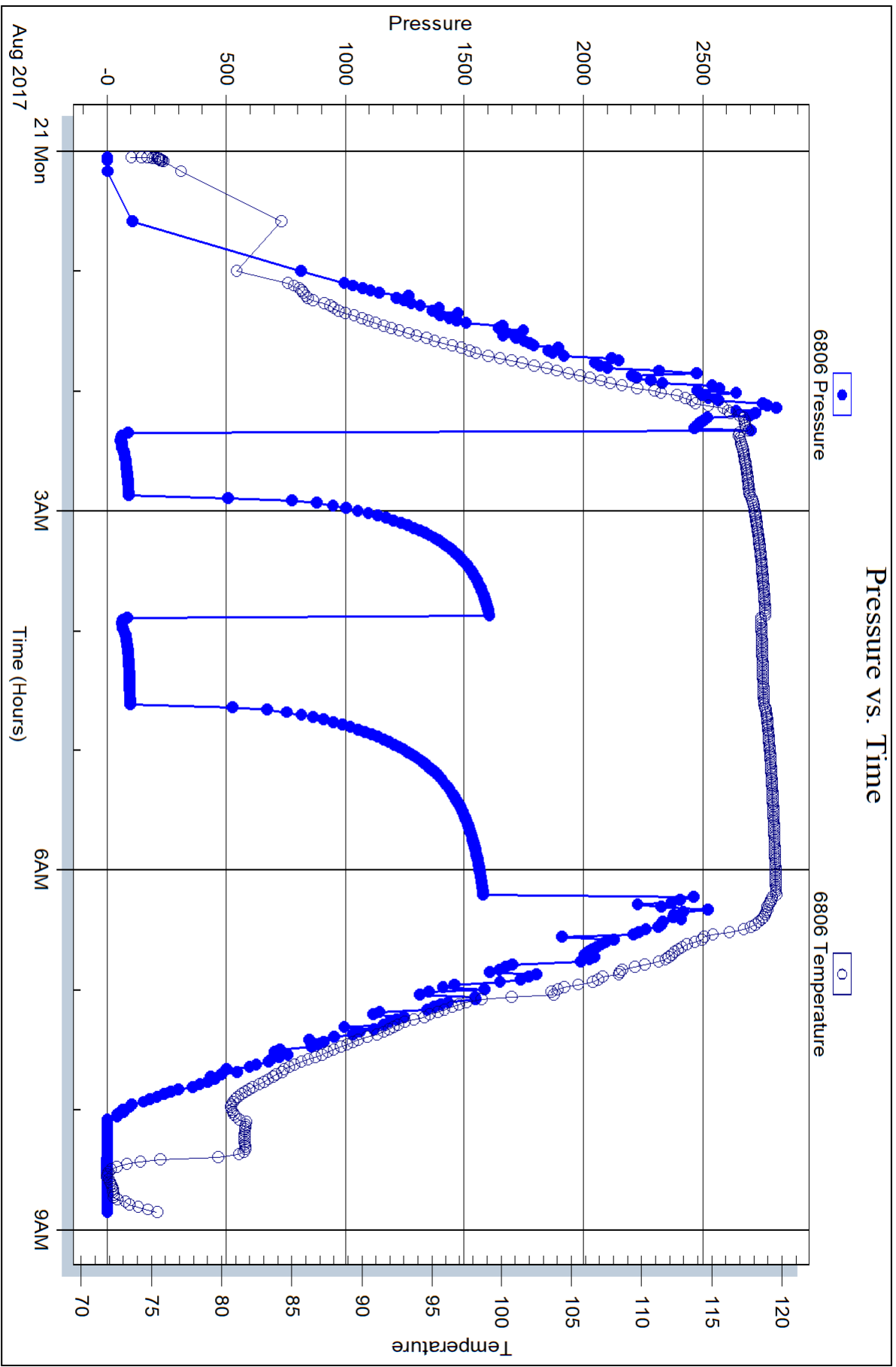
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.25	35.00	78.37
1	20	0.25	35.00	78.37
1	30	0.25	40.00	86.30
2	10	0.25	44.00	92.65
2	20	0.25	48.00	98.99
2	30	0.25	53.00	106.92
2	40	0.25	55.00	110.10











**DUKE DRILLING**

**DAILY DRILLING REPORT**

WELL # 9 TOOLPUSHER Complete Rig DAYS FROM SPUD 1 DATE 8-15-2017  
 WELL NAME Evans #1 OPERATOR Jalen Operating LEGALS 16-30-21  
 DEPTH 313 FOOTAGE LAST 24 HOURS 213 FORMATION clay  
 RESENT OPERATION WOC NO. DAYS SINCE LAST LTA — HRS WORKED —  
 PUMP PRES 600 GPM 380 SPM#1 105 SPM#2 —

BIT#	SIZE	TYPE	SERIAL #	JET SIZE	IN	OUT	FOOTAGE	HRS	FT/HR	WOB	RPM
1	12 1/4	PL	616509254	5 X 16	100	313	213	13 1/4	121	6,000	130

MUD	MUD MIXED	GEL	CAU	CF	HULLS	BAR	DRIS	THIN
		LINE 2	DESCO	LIG	BASH 8	DESCO		
	OTHER	VOL. HOLE		VOL. PITS				
	DMC \$	TMC \$	MUD CO. <u>Fossil Elvite</u>		MUD ENG <u>Jack Stapleton</u>			

SURVEYS 313 144 FUEL ON HAND 2871 LAST 24 HRS 509 FOR WELL 509

TIME	FUEL DEL.	PRICE						
START	END	Hr	Min	OPERATION	DEPTH	TIME DIST	TODAY	CUM
6:00	7:45	13	45	Move The Rig & Rig up		REMO	13 3/4	
7:45	9:45	2		Pump water & Mix Mud		Drig	13 1/4	13 1/4
9:45	12:00	2	15	Drig @ 100 TO 313		Ream/Wash		
12:00	12:30			30 Circ		Survey		
12:30	1:00			30 Drop SS & T.O.H		Trip	1/2	
1:00	2:15	1	15	Run 7 JTS 8 3/8 csg New 2 1/2"		Rig Serv		
2:15	2:45			30 Circ		Chf/Cond	1	
2:45	4:15	1	30	Rig up Cementer & cementing		Run Csg	1 1/2	
4:15	6:00	1	45	WOC		WOC	1 3/4	
						NUT/ST/ROP		
						Repair		
						Log		
						Fish		
						Put water/mud	2	
						WOC		
						Conn	1/2	
						Cementing	1 1/2	
						Misc.		
						TOTAL	24	

CASING RAN 8 3/8 JTS OF 7 CSO New LB 24 GRADE J 55 TOTAL FEET SET 308  
 CEMENTED BY B.J WITH 300 ex class A Common

EQUIPMENT \_\_\_\_\_  
 COMMENTS Plug Down @ 4:15 AM 8-15-17





## Cement Job Summary

Job Number: <b>Lib1708220300</b>		Job Purpose: <b>03 Plug</b>			
Customer: <b>Jolen Operating Co.</b>			Date: <b>8/22/2017</b>		
Well Name: <b>Evans</b>		Number: <b>1</b>	API/UWI:		
County: <b>Clark</b>		City:	State: <b>Kansas</b>		
Cust. Rep:		Phone:	Rig Phone: <b>0</b>		
Distance: <b>50 miles (one way)</b>		Supervisor:	<b>Victor Corona-Marta</b>		
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	
8/22/2017					DATE
11:45pm					Arrived at location
					Rig crew was still pulling pipe from hole
12:45am					Safety meeting with company man rig crew and BJ crew
1:05am	80		10	5	10bbls of water spacer
1:10am	80		12.64	6	12.64bbls of cement from 50sacks at 13.85lbs
1:18am	80		16	8	Displacement 16bbls of mud
1:24am					Rig crew pulling pipe
1:55am	50		20	6	20bbls of water to clean hole
2:02am	50		12.64	6	12.64bbls of cement from 50sacks at 13.85lbs
2:05am	50		1.8	1	Displacement 1.8bbls of water
2:10am					Rig crew pulling pipe
2:23am	50		5	5	5bbls of cement from 20sacks at 13.85lbs cement to surface
2:48am	0		7.6	5	Rat 7.6 bbls of cement from 30sacks at 13.85lbs cement to surface
2:50am					cement to surface
2:54am	0		5	3	Mouse 5bbls of cement from 20sacks at 13.85lbs cement to surface
3:00am					Wash pump into pit.
					Rig down
					Crew and I thanked the company man and rig crew for job opportunity.

# DUKE DRILLING CO., INC.

CONTRACT DRILLING

OILFIELD HAULING

P.O. Box 823  
Gret Bend, KS 67530-0823  
(620) 793-8366

100 South Main, Suite 410  
Wichita, KS 67202-3737  
(316) 267-1331

TO: Jolen Operating Company INVOICE NO. 17(8-11)

100 N. Broadway Ave. - Suite 2460

TERMS: NET 1/2 % Service Charge per month on unpaid balance.

Oklahoma City, OK 73102-8868  
Evans #1

DATE August 24, 2017

NW Sec.16-30S-21W

FOR: Clark County, Kansas

DATE	DESCRIPTION	DRILLING	AMOUNT
8-15-17	To Rotary Total Depth of 5360' Less Conductor Casing 113' From Ground Level to 5247' @ \$11.50/ft		\$60,340.50
	<b>DAYWORK</b>		
8-17	Circ. & TOH to run 8-5/8" casing 1 Hr.		
8-18	Rig up & Run 8-5/8" surface casing 1 Hr. 15 Min.		
8-19	Circ., Rig up cementers, Cement 8-5/8" surface casing 2 Hr.		
8-19/8-20	Wait on cement 8 Hr.		
8-20	Drill cement plug 1 Hr.		
	Wiper trip 45 Min.		
	Circ. to cond. hole 45 Min.		
	Circ. f/samples @ 5250' 1 Hr. 15 Min.		
	Circ. f/samples @ 5360' 1 Hr. 30 Min.		
	Short trip 45 Min.		
	Circ. to cond. hole 2 Hr.		
	Trip out of hole f/log 2 Hr. 30 Min.		
	Rig up loggers & log 5 Hr. 30 Min.		
	Wait on orders 4 Hr.		
8-20/8-21	DST #1 (5240-5260') 10 Hr. 30 Min.		
8-21	DST #2 (5216-5240') 8 Hr. 45 Min.		
	Wait on orders 9 Hr. 15 Min.		
	TIH w/drillcollars & Lay down drillcollars 1 Hr.		
	TIH w/drillpipe to plug 2 Hr.		
8-21/8-22	LDDP & Cement to plug hole 6 Hr.		
8-22	Nipple down BOP & Clean pits (Rig released 5:00 AM) 2 Hr.		
TOTAL DAYWORK: 71 Hr. 45 Min. @ \$325.00/hr			23,318.75
	3 Boxes Sample Bags @ \$30.00/box		90.00
	Fuel Clause: 3661 gal. diesel @ (\$2.00 - \$1.00)		3,661.00
	Rig Move - Actual \$21,080.00		12,580.00
	Less - Per Contract ( 8,500.00)		\$99,990.25
TOTAL INVOICE:			\$99,990.25

Thank You