

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)</i> <i>(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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P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
12/15/2017	31050

BILL TO
Pickrell Drilling Co. Inc. PO Box 375 Ness City, KS 67560

- Acidizing
- Cement
- Tool Rental

DEC 29 2017

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3	Foos	Ness	Pickrill Rig #10	Oil	Development	Cement Long Str...	Blaine
PRICE-REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				25	Miles	5.00	125.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
402-5	5 1/2" Centralizer				7	Each	60.00	420.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
405-5	5 1/2" Formation Packer Shoe				1	Each	1,300.00	1,300.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
420	Miscellaneous Float Equipment Part				1	Each	30.00	30.00T
325	Standard Cement				175	Sacks	12.25	2,143.75T
284	Calseal				8	Sack(s)	30.00	240.00T
283	Salt				900	Lb(s)	0.20	180.00T
292	Halad 322				125	Lb(s)	8.00	1,000.00T
276	Flocele				50	Lb(s)	2.25	112.50T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
195	High Connection Fee - 10 Feet Or More Above Rig Floor				1	Each	200.00	200.00T
582D	Minimum Drayage Charge				1	Each	250.00	250.00
581D	Service Charge Cement				175	Sacks	1.50	262.50
	Subtotal							11,413.75
	Sales Tax Ness County						6.50%	619.21

We Appreciate Your Business!

Total

\$12,032.96



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63242

DST#: 1

Test Start: 2017.12.13 @ 10:45:18

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:08:13

Time Test Ended: 18:01:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 4364.00 ft (KB) To 4396.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 4396.00 ft (KB) (TVD)

2273.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8360

Inside

Press@RunDepth: 44.94 psig @ 4365.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.12.13

End Date:

2017.12.13

Last Calib.: 2017.12.13

Start Time: 10:45:18

End Time:

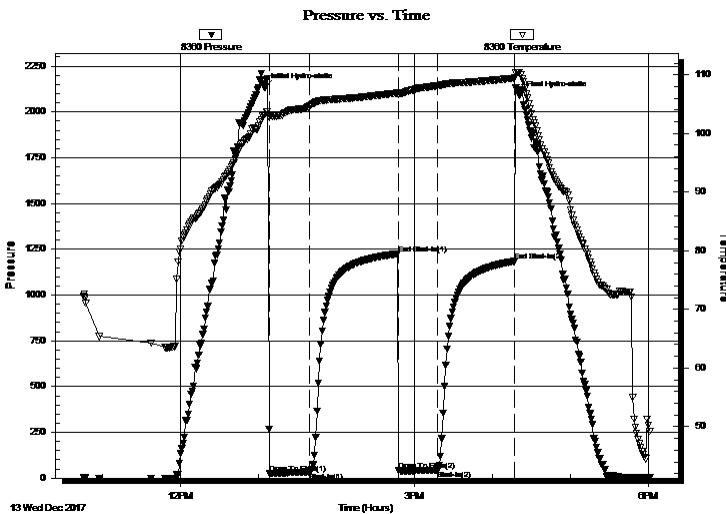
18:01:42

Time On Btm: 2017.12.13 @ 13:04:43

Time Off Btm: 2017.12.13 @ 16:20:42

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"to 1/2"bl
60-ISIP-no bl
30-FFP-no bl
60-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.80	103.26	Initial Hydro-static
4	25.32	103.25	Open To Flow (1)
35	33.59	104.65	Shut-In(1)
103	1225.28	106.89	End Shut-In(1)
103	40.71	106.58	Open To Flow (2)
134	44.94	108.18	Shut-In(2)
193	1183.95	109.41	End Shut-In(2)
196	2091.05	110.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MO 20%M80%O	0.07
40.00	OCM 25%O75%M	0.20

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63242

DST#: 1

Test Start: 2017.12.13 @ 10:45:18

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 8.74 in³
Resistivity: ohm.m
Salinity: 7400.00 ppm
Filter Cake: 0.00 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
15.00	MO 20%M80%O	0.074
40.00	OCM 25%O75%M	0.197

Total Length: 55.00 ft Total Volume: 0.271 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

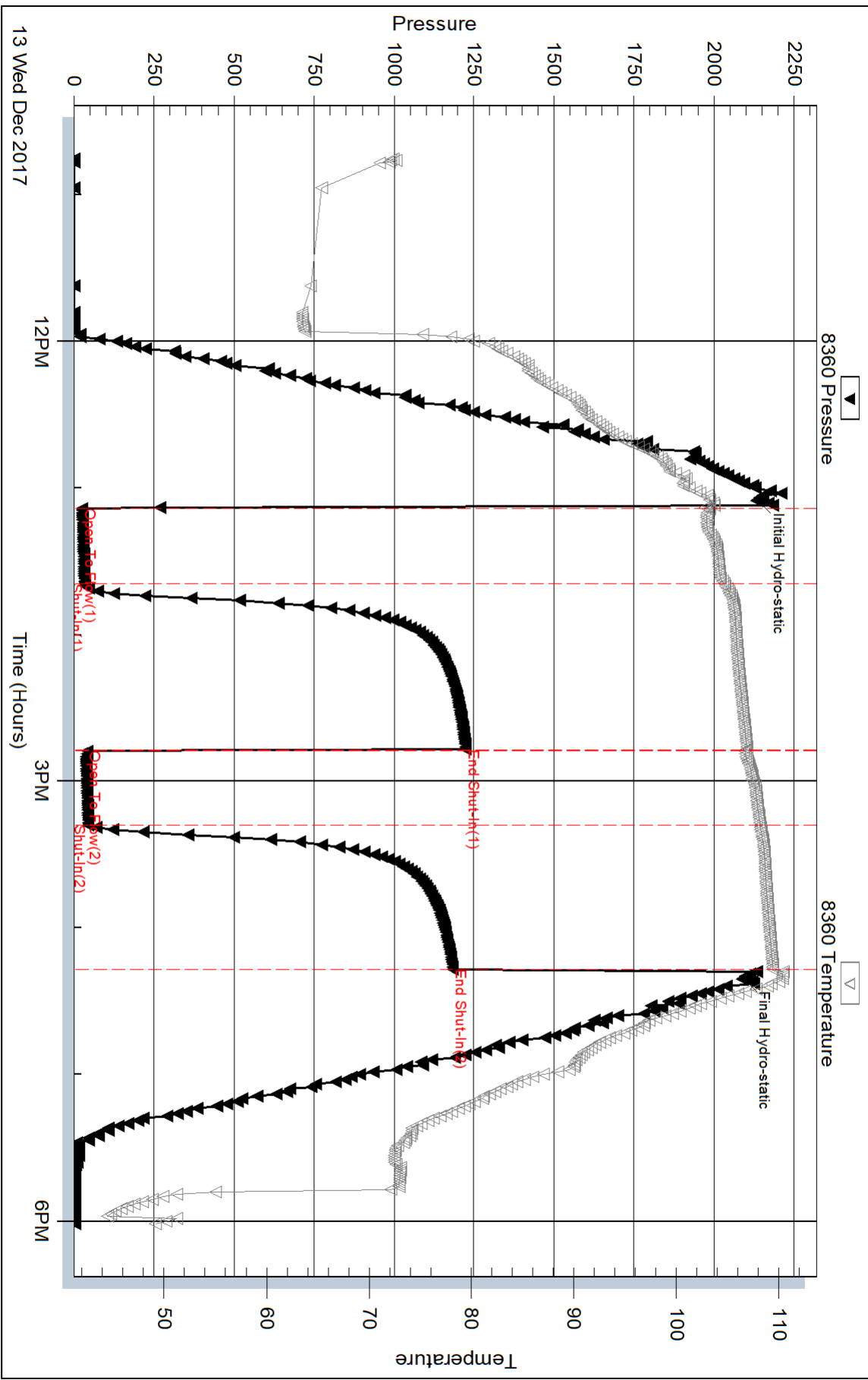
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

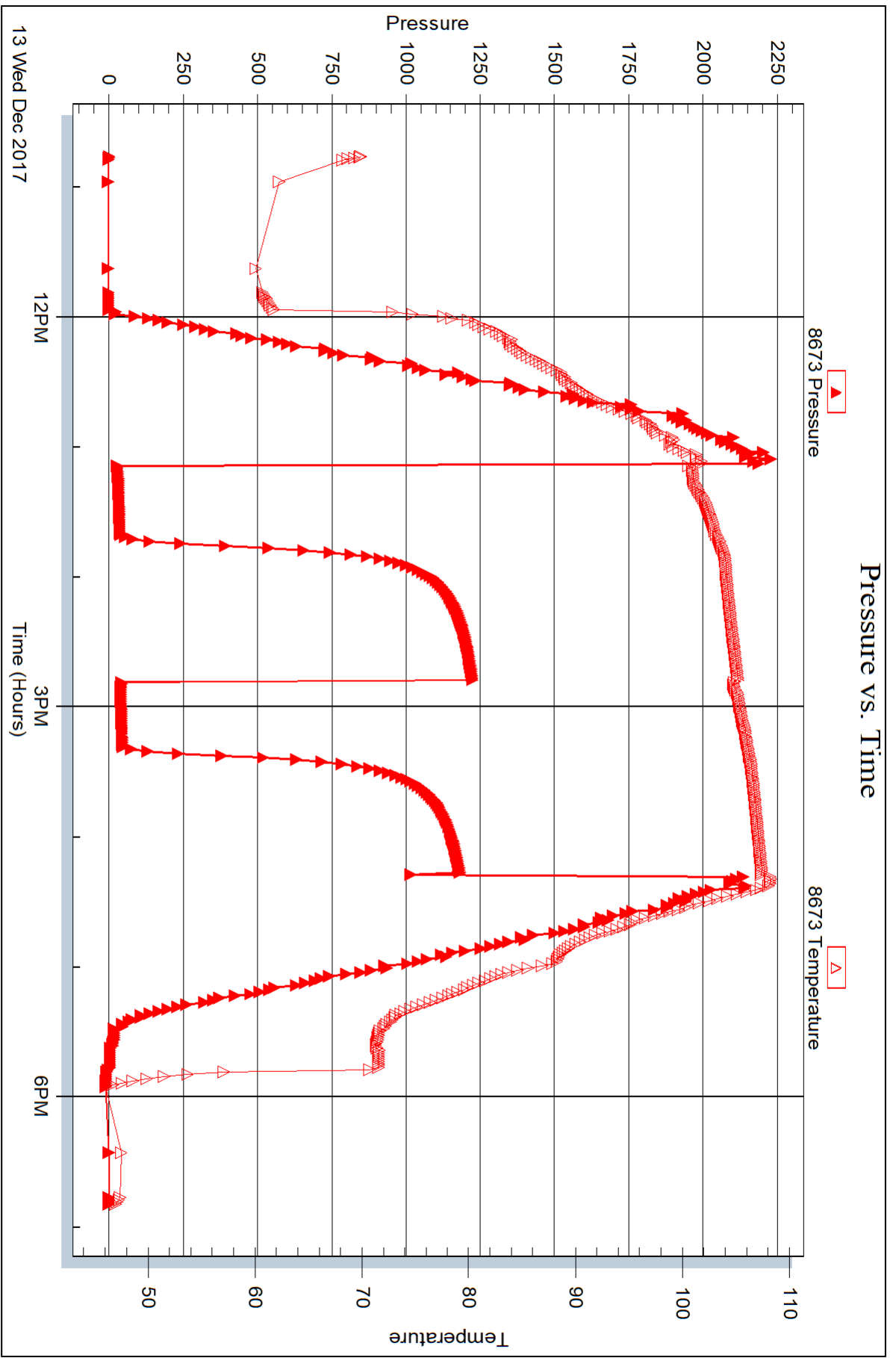


Serial #: 8673

Outside Pckrell Drilling Co Inc

Foos #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63242

Printed: 2017.12.14 @ 14:33:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63243

DST#: 2

Test Start: 2017.12.14 @ 03:05:26

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:36

Time Test Ended: 10:20:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 4364.00 ft (KB) To 4401.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 4401.00 ft (KB) (TVD)

2273.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8360

Inside

Press@RunDepth: 56.30 psig @ 4365.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.12.14

End Date:

2017.12.14

Last Calib.: 2017.12.14

Start Time: 03:05:26

End Time:

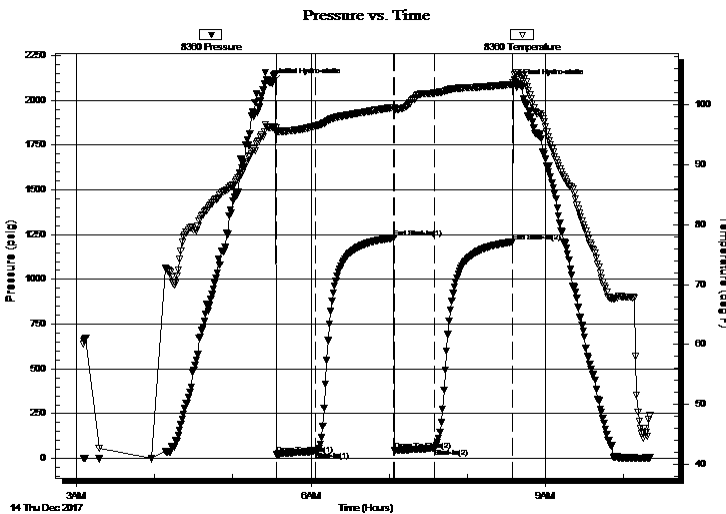
10:20:05

Time On Btm: 2017.12.14 @ 05:30:21

Time Off Btm: 2017.12.14 @ 08:37:50

TEST COMMENT: 30-IFP-w k bl 1/8" to surface bl
60-ISIP-no bl
30-FFP-w k surface bl thru-out
60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.25	96.20	Initial Hydro-static
4	24.00	95.39	Open To Flow (1)
33	38.87	96.44	Shut-In(1)
94	1232.48	99.59	End Shut-In(1)
94	45.10	99.17	Open To Flow (2)
125	56.30	101.98	Shut-In(2)
185	1208.99	103.44	End Shut-In(2)
188	2094.64	105.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.02
65.00	HOCM 40%O60%M	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63243

DST#: 2

Test Start: 2017.12.14 @ 03:05:26

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:36

Time Test Ended: 10:20:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 4364.00 ft (KB) To 4401.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 4401.00 ft (KB) (TVD)

2273.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8673 Outside

Press@RunDepth: psig @ 4365.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.12.14

End Date:

2017.12.14

Last Calib.:

2017.12.14

Start Time: 03:05:33

End Time:

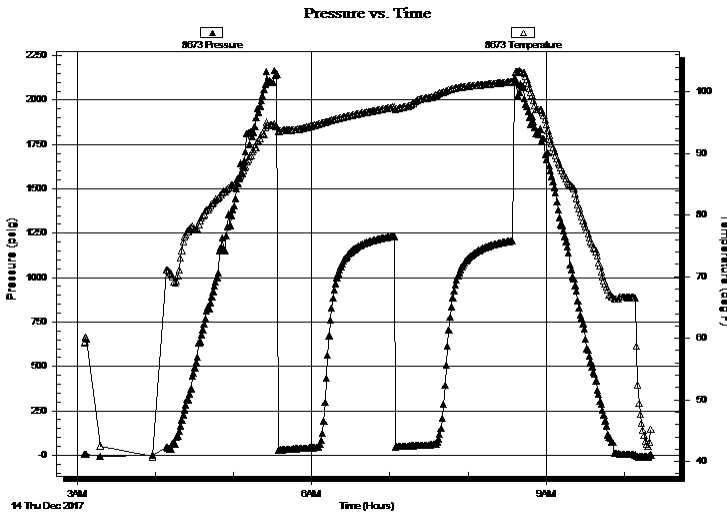
10:20:12

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k bl 1/8" to surface bl
60-ISIP-no bl
30-FFP-w k surface bl thru-out
60-FSIP-no bl

PRESSURE SUMMARY



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

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	CO	0.02
65.00	HOCM 40%O60%M	0.32

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63243

DST#: 2

Test Start: 2017.12.14 @ 03:05:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	CO	0.025
65.00	HOCM 40% O 60% M	0.320

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

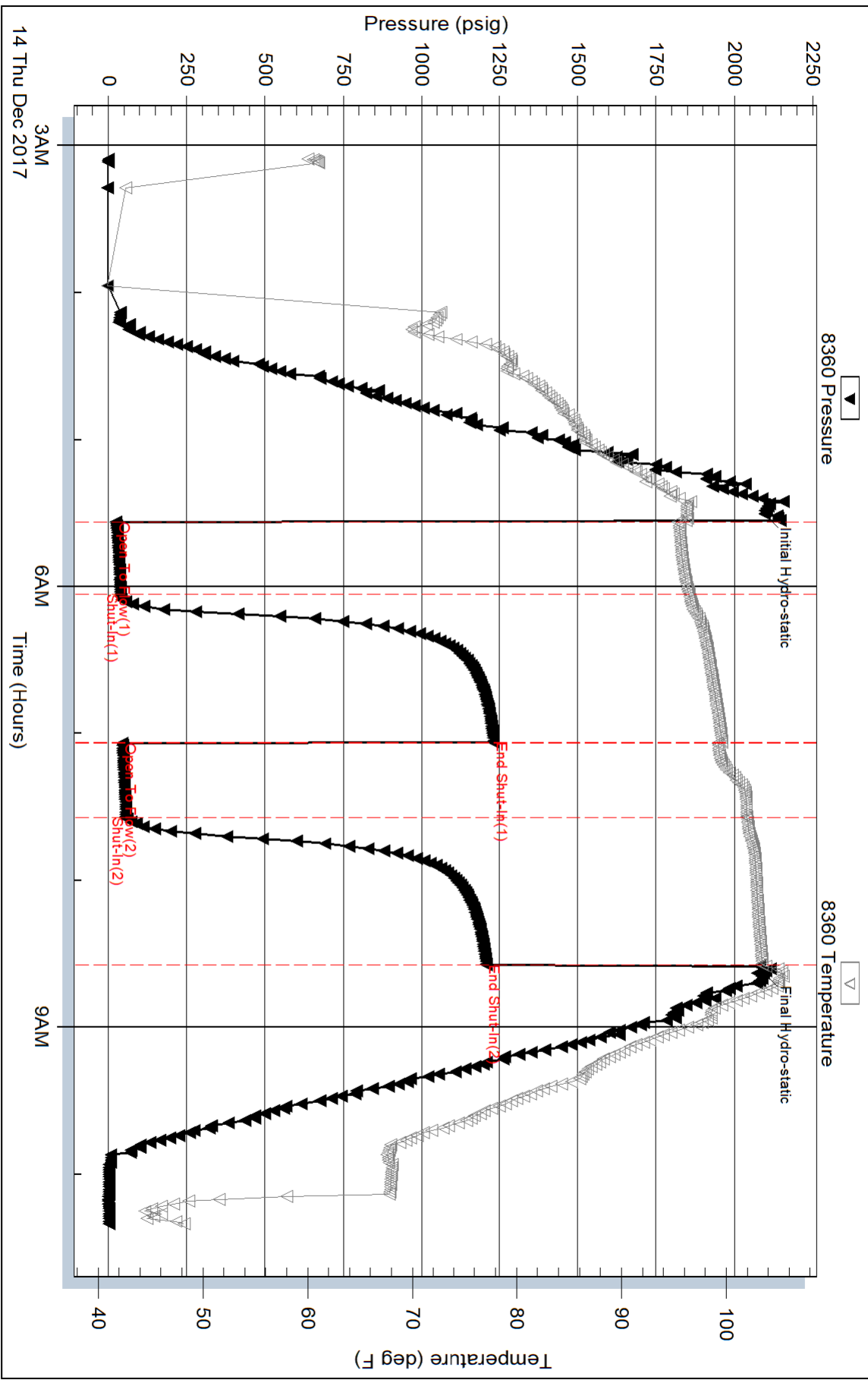
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

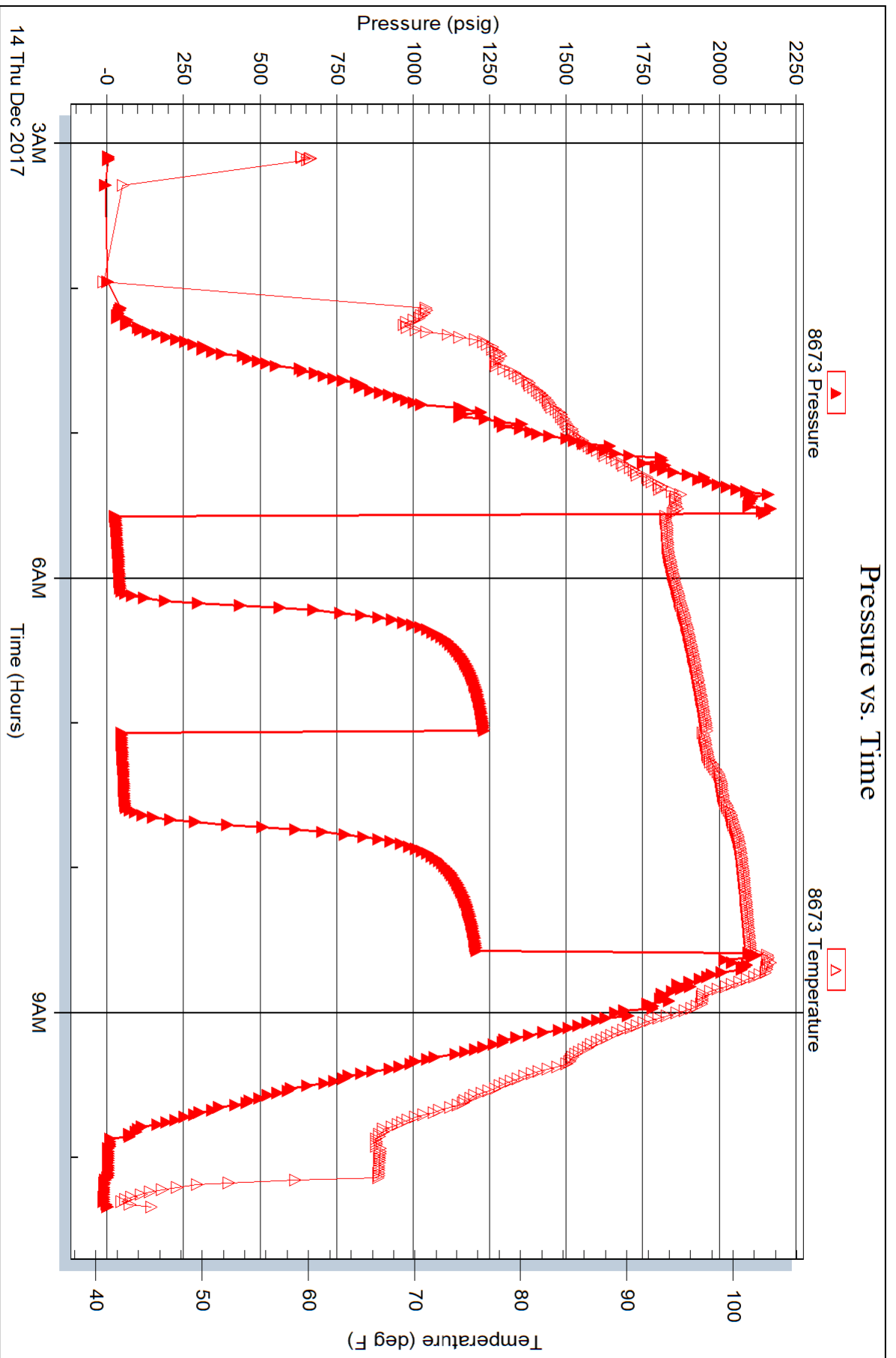


Serial #: 8673

Outside Pckrell Drilling Co Inc

Foos #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63243

Printed: 2017.12.14 @ 11:27:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63244

DST#: 3

Test Start: 2017.12.14 @ 16:10:15

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:05:25
 Tester: Ray Schwager
 Time Test Ended: 01:42:25
 Unit No: 77
 Interval: **4396.00 ft (KB) To 4406.00 ft (KB) (TVD)**
 Reference Elevations: 2280.00 ft (KB)
 Total Depth: 4406.00 ft (KB) (TVD)
 2273.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

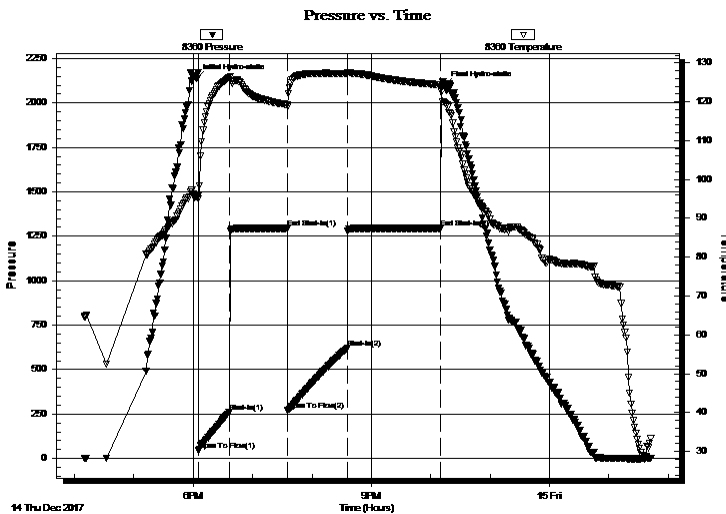
Serial #: 8360

Inside

Press@RunDepth: 621.17 psig @ 4397.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.14 End Date: 2017.12.15 Last Calib.: 2017.12.15
 Start Time: 16:10:15 End Time: 01:42:25 Time On Btm: 2017.12.14 @ 18:03:40
 Time Off Btm: 2017.12.14 @ 22:13:39

TEST COMMENT: 30-IFP-BOB in 5 min
 60-ISIP-1 1/2" bl bk
 60-FFP-BOB in 8 min
 90-FSIP-surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.84	95.65	Initial Hydro-static
2	45.29	95.05	Open To Flow (1)
33	261.80	126.13	Shut-In(1)
92	1295.11	119.25	End Shut-In(1)
92	270.62	118.85	Open To Flow (2)
152	621.17	127.20	Shut-In(2)
247	1295.30	124.32	End Shut-In(2)
250	2099.81	119.80	Final Hydro-static

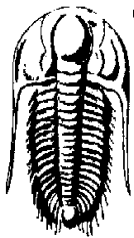
Recovery

Length (ft)	Description	Volume (bbl)
495.00	Water	5.85
1070.00	CO	15.01
0.00	480' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
 STE 505
 Wichita Ks 67202-3738
 ATTN: Larry Richardson, Aa

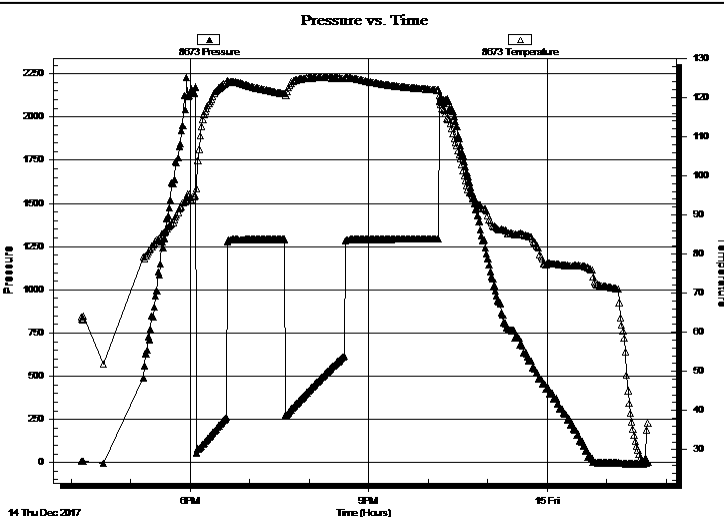
Foos #3
 Job Ticket: 63244 **DST#: 3**
 Test Start: 2017.12.14 @ 16:10:15

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:05:25
 Tester: Ray Schwager
 Time Test Ended: 01:42:25
 Unit No: 77
 Interval: **4396.00 ft (KB) To 4406.00 ft (KB) (TVD)**
 Reference Elevations: 2280.00 ft (KB)
 Total Depth: 4406.00 ft (KB) (TVD)
 2273.00 ft (CF)
 Hole Diameter: 7.85 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8673 Outside
 Press@RunDepth: psig @ 4397.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.14 End Date: 2017.12.15 Last Calib.: 2017.12.15
 Start Time: 16:10:23 End Time: 01:42:18 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-BOB in 5 min
 60-ISIP-1 1/2" bl bk
 60-FFP-BOB in 8 min
 90-FSIP-surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
495.00	Water	5.85
1070.00	CO	15.01
0.00	480' 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

Pickrell Drilling Co Inc

31-19s-21w Ness

100S.Main
STE 505
Wichita Ks 67202-3738
ATTN: Larry Richardson, Aa

Foos #3

Job Ticket: 63244

DST#: 3

Test Start: 2017.12.14 @ 16:10:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.67 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
495.00	Water	5.850
1070.00	CO	15.009
0.00	480' GIP	0.000

Total Length: 1565.00 ft Total Volume: 20.859 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .23@70F

Serial #: 8360

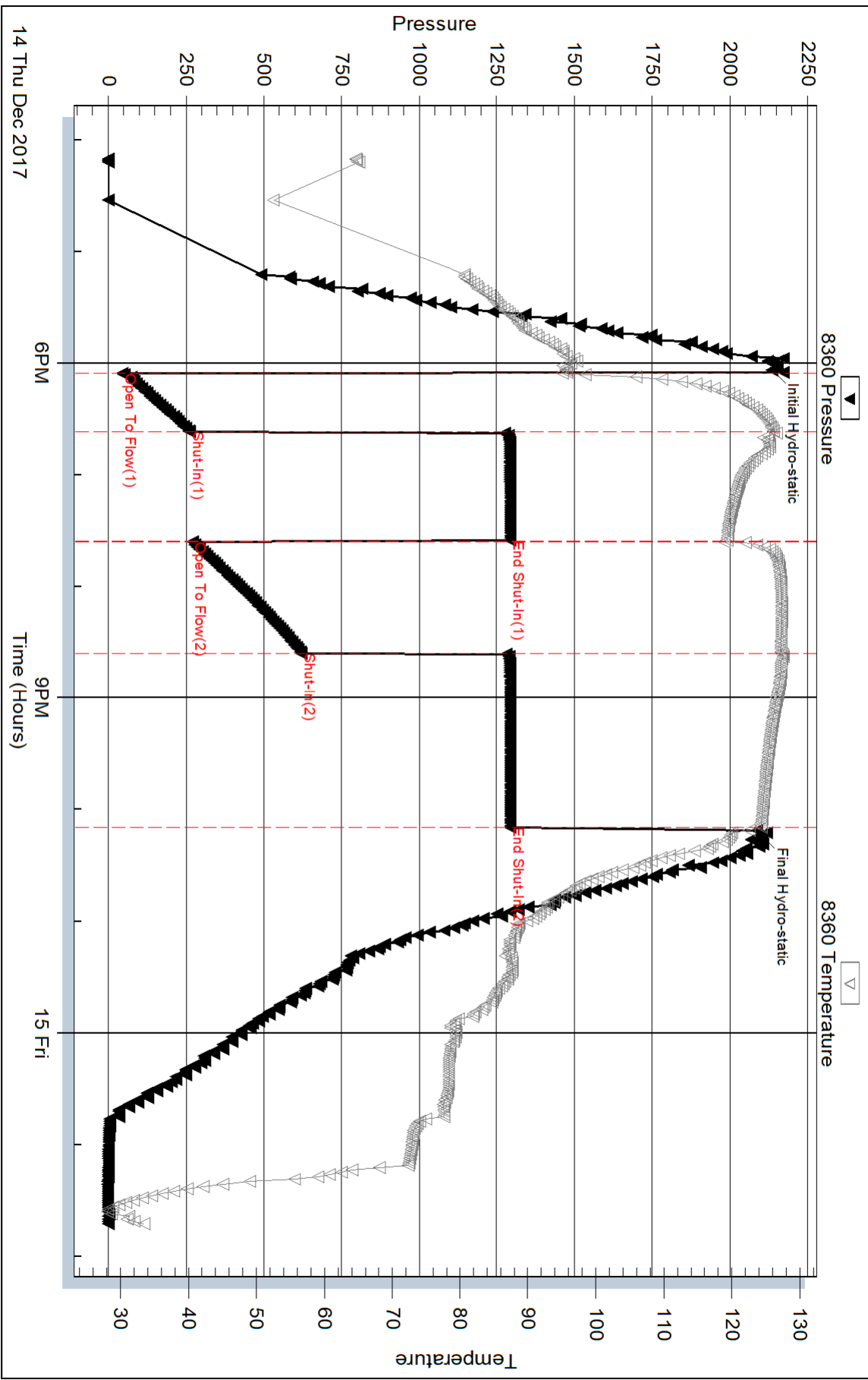
Inside

Pickrell Drilling Co Inc

Foos #3

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63244

Printed: 2017.12.15 @ 06:47:58

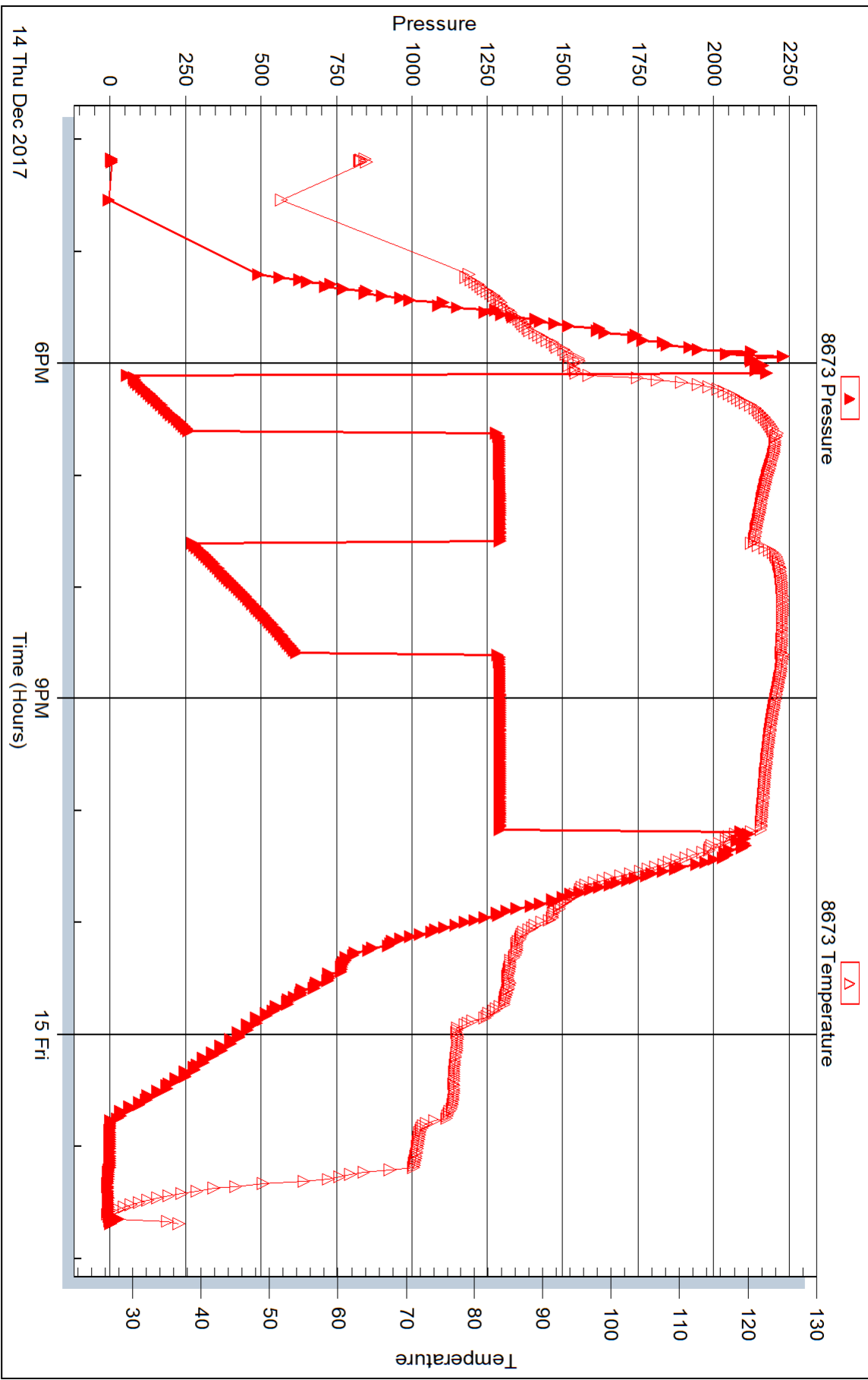
Serial #: 8673

Outside Pckrell Drilling Co Inc

Foos #3

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63244

Printed: 2017.12.15 @ 06:47:58

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Foos #3
API: 15-135-25982
Location: Section 31 - T19S - R21W
License Number: 5123
Spud Date: 12 / 06 / 2017
Surface Coordinates: 2310' FSL and 1290' FWL
Approx. E2 - NE - NW - SW
Region: Ness Co., KS
Drilling Completed: 12 / 15 / 2017
**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2273' **K.B. Elevation (ft):** 2280'
Logged Interval (ft): 3700' **To:** 4406' **Total Depth (ft):** 4406'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Pickrell Drilling Company, Inc.
Address: 100 S Main STE 505
Wichita, KS 67202+3738

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Pickrell Drilling Company, Inc.
Address: 100 S. Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ	16-16-16	210	202	4.5
2	7-7/8	JZ HA21Q	14-14-14	4406	4196	118.75

SURVEYS: 210'-1, 733'-1, 1233'-1, 1765-.75, 2265'-.5, 2796-.5, 4396-.25

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 36,000 - 40,000 lbs. on bit and approx 65 RPM.
Running 9.5 stands of collars; 608'
Pumping approx 600-800 psi at standpipe.

Daily Status

12/06/17 - MIRT & Spud, ran 5 jts, 198' of used 28# 8 5/8" casing w/ 150 sx Standard 3% cc & 2% gel

12/07/17 - Drilling @ 300'

12/08/17 - Drilling @ 1500'

12/09/17 - Drilling @ 2387'

12/10/17 - Drilling @ 3000'

12/11/17 - Drilling @ 3516'

12/12/17 - Drilling @ 4078'

12/13/17 - DST #1 4364' - 4396'

12/14/17 - DST #1 4364' - 4401'

12/15/17 - RTD 4406'. DST #3 4396' - 4406'. Logged, ran 101 jts used 5 1/2" 20# production casing set @ 4393', cem w/ 145 sx EA2 cem, 30 sx in RH, port collar @ 1563'

DST #1 MISSISSIPPI 4364' - 4396'

IF: WK BL 1/4" BLD TO 1/2"

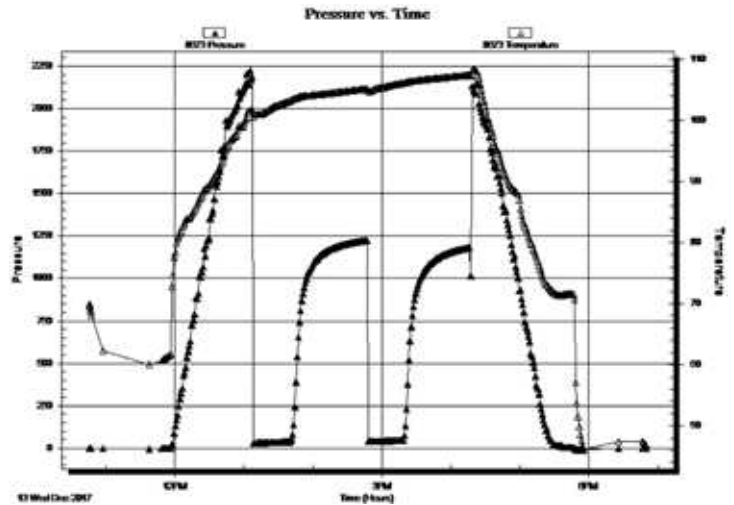
ISI: NO BL

FF: NO BL

FSI: NO BL

Rec'd: 15' MO (20% M, 80% O), 40 OCM (25% O, 75% M)

SIP: 1225-1184# FP: 25-34#, 41-45# HP: 2135-2091#



DST #2 MISSISSIPPI 4364' - 4401'

IF: WK BL 1/8" SURFACE BL

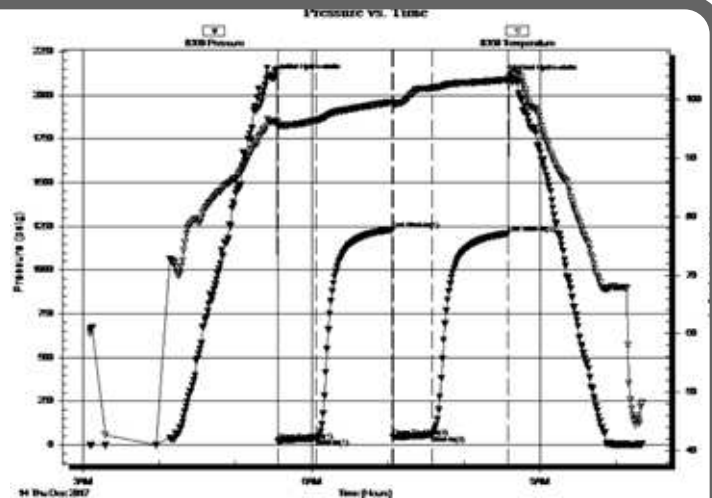
ISI: NO BL

FF: WK SURFACE BL THRU-OUT

FSI: NO BL

Rec'd: 5' CO (100% O), 65 HOCM (40% O, 60% M)

SIP: 1232-1209# FP: 24-39#, 45-56# HP: 2096-2095#

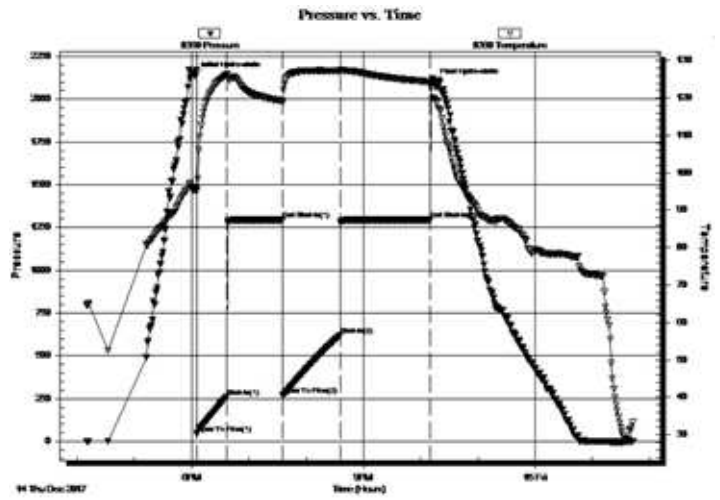


DST #3 MISSISSIPPI
4396' - 4406'

IF: BOB IN 5 MIN
ISI: 1.5" BLO BK
FF: BOB IN 8 MIN
FSI: SURFACE BLO

Rec'd: 480' GIP, 1070' CO (100% O), 495' WATER

SIP: 1295-1295#
FP: 45-262#, 271-621#
HP: 2136-2100#



ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sltysch
- Lms

ACCESSORIES

- #### MINERAL
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Brecfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp
 - Hvymin
 - Kaol
 - Marl
 - Minxl
 - Nodule
 - Phos
 - Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- #### FOSSIL
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

- #### STRINGER
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst
 - Sltstrg
 - Ssstrg
 - Carbsh

- Clystn
- Dol
- Grysh
- Gryst
- Lms
- Sandylms
- Sh
- Sltstn

- #### TEXTURE
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

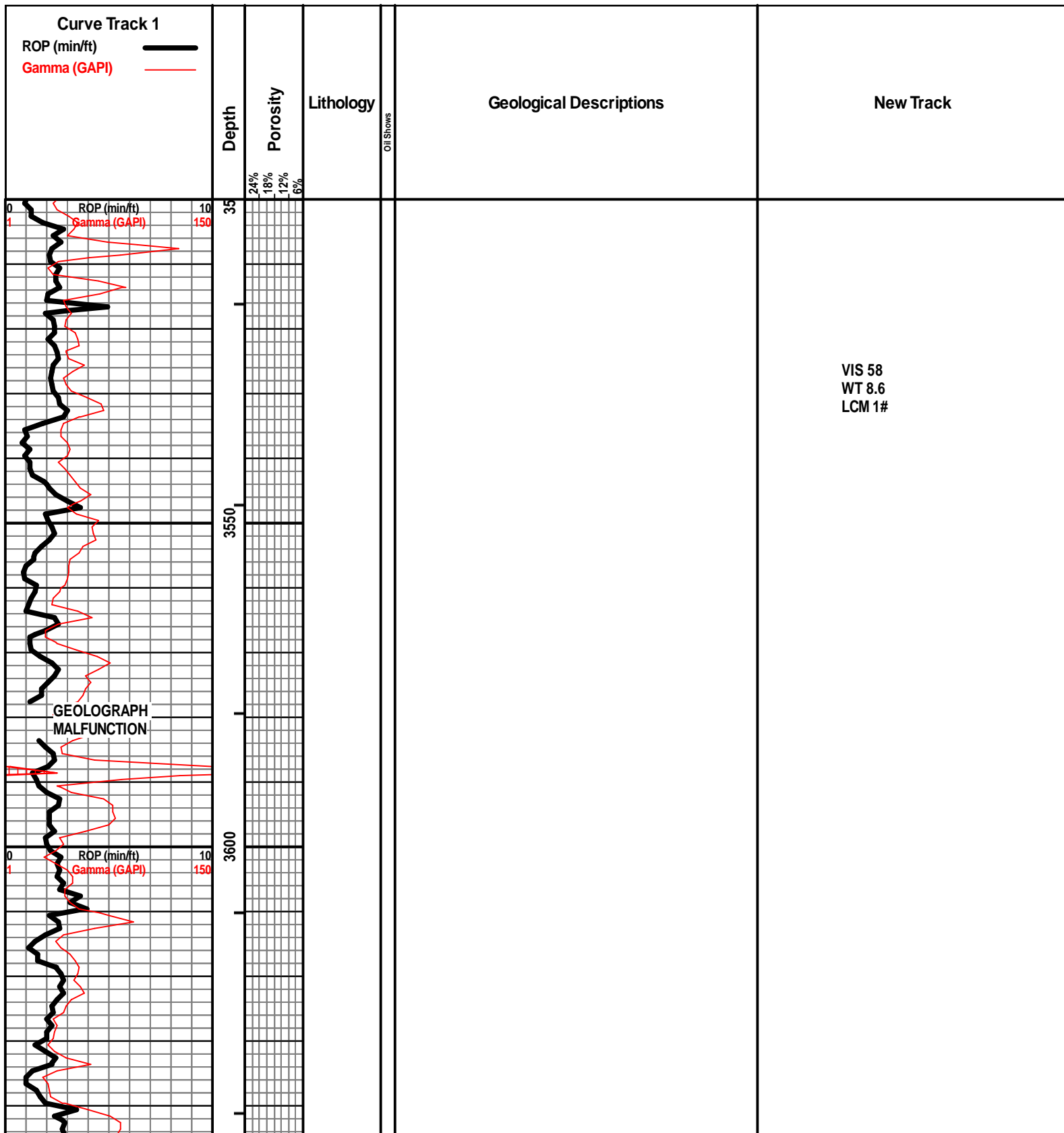
INTERVALS

- Core
- Dst

Dst

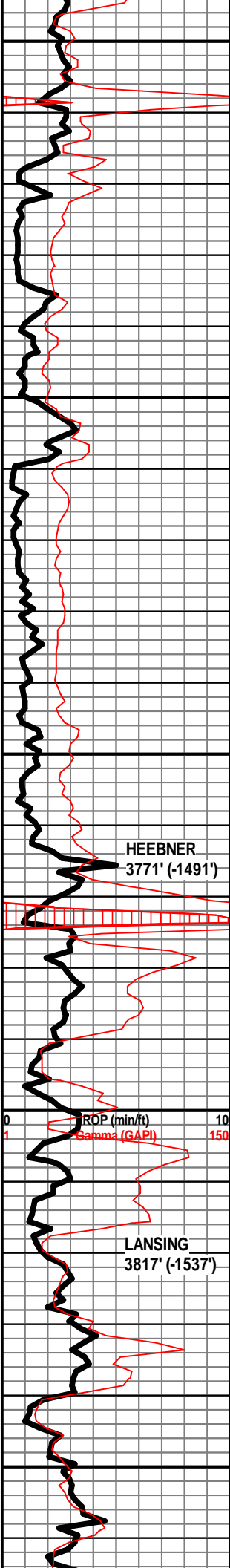
EVENTS

- Rft
- Sidewall
- Conn



VIS 52
WT 8.6
LCM 1#

VIS 52
WT 8.7



3650
3700
3750
3800
3850

HEEBNER
3771' (-1491')

LANSING
3817' (-1537')

ROP (min/ft)
Gamma (GAPI)

LS - CRM / TAN / GY IN PT, VF / F XLN, SUBCHKY / MOD
DNS, FOSS

SH - RD, W/ LS - TAN, VF / F XLN, MOD DNS / DNS

LS - TAN / GY, VF / F XLN, MOD DNS / DNS, FOSS

LS - TAN / CRM / WHT, VF XLN, SUBCHKY / CHKY, FOSS
IN PT

LS - CRM / TAN / BRN, VF / F XLN, SUBCHKY / CHKY,
FOSS IN PT

LS - TAN / LT BRN, VF / F XLN MOD DNS / SUBCHKY,
FOSS

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS IN PT

SH - BLK, CARB, W/ SH - GY / GRN / RD / MAR

SH - GY / GRN / MAR / RD, W/ LS - TAN / GY, F XLN,
MOD DNS / DNS, FOSS IN PT

SH - RD / GRN / GY, W/ LS - TAN / GY, VF / F XLN, MOD
DNS / DNS, FOSS

LS - CRM / TAN / GY IN PT, VF / F XLN, M XLN IN PT,
FOSS, W/ SH - GRN / GY

SH - RD / GRN / GY

LS - CRM / TAN, WHT IN PT, VF / F XLN, PRED
SUBCHKY, MOD DNS IN PT, CHKY IN PT, FOSS IN PT, W/
SH - RD GRN

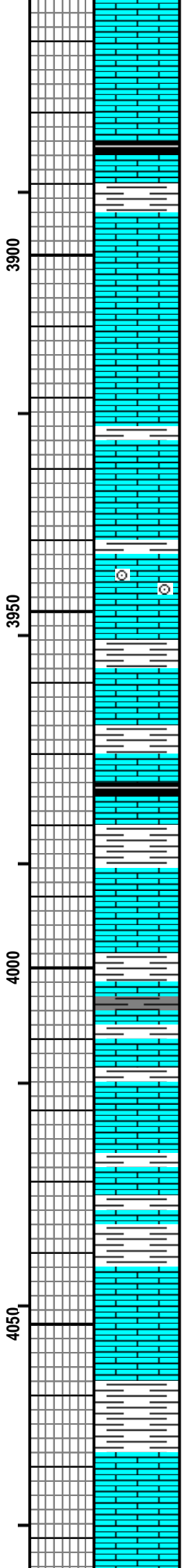
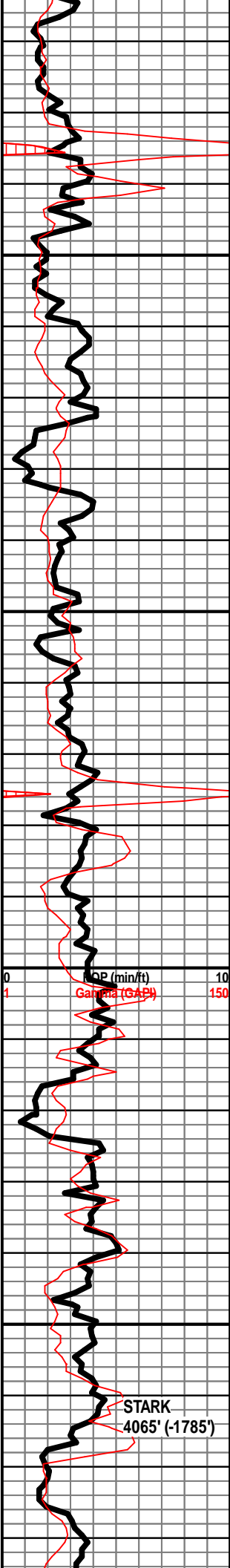
SH - DK GY / BLK, SLI CARB, W/ LS - CRM, VF / F XLN,
MOD DNS, FOSS

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, FOSS IN
PT

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY

SH - RD / GRN / GY, W/ LS - TAN / GY, F XLN, MOD DNS /
DNS, FOSS IN PT

VIS 50
WT 8.8
LCM 1#



DNS, FOSS IN PT

LS - CRM / TAN / WHT, VF / F XLN, SUBCHKY / CHKY, MOD DNS IN PT, FOSS IN PT

SH - BLK, CARB, W/ LS - CRM, VF / F XLN MOD DNS / SUBCHKY, FOSS IN PT

SH - RD / GRN, W/ LS - CRM, VF / F XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM / WHT, VF / F XLN, SUBCHKY / CHKY, FOSS IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, ABUND FOSS

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY IN PT, ABUND FOSS

LS - CRM, VF / F XLN, SUBCHKY, W/ SH - GY

LS - CRM / TAN, F / M XLN, MOD DNS / DSN, FOSS, W/ SH - GRN / RD

LS - CRM / TAN / GY IN PT, F XLN, MOD DNS / DNS, ABUND FOSS (LRG CRI IN PT), W/ SH - RD / GRN / GY

LS - BRN / GY, F / M XLN, DNS, FOSS IN PT, W/ SH - GRN / RD

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - RD / GRN

SH - DK GY / BLK, CARB

SH - RD / GRN / GY, W/ LS - BRN / GY, F / M XLN, DNS, FOSS IN PT

LS - PRED CRM / TAN IN PT, VF / F XLN, SUBCHKY / MOD DNS, CHKY IN PT

SH - GY, W/ LS - CRM, VF / F XLN, MOD DNS / SUBCHKY

SH - RD / MAR / GRN, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ FEW PIECES OF CHT - TAN, FRSH, OPAQ, SLI TRANSLUCENT

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, W/ SH - GRN

SH - RD / GRN / GY, W/ LS - CRM / TAN, VF / F XLN, MOD DNS, SUBCHKY

LS - CRM, VF / F XLN, SUBCHKY, W/ FEW PIECES OF BRN LS - F / M XLN, DNS, FOSS

SH - GY, W/ LS - CRM, VF XLN, SUBCHKY

SH - RD / GRN / GY

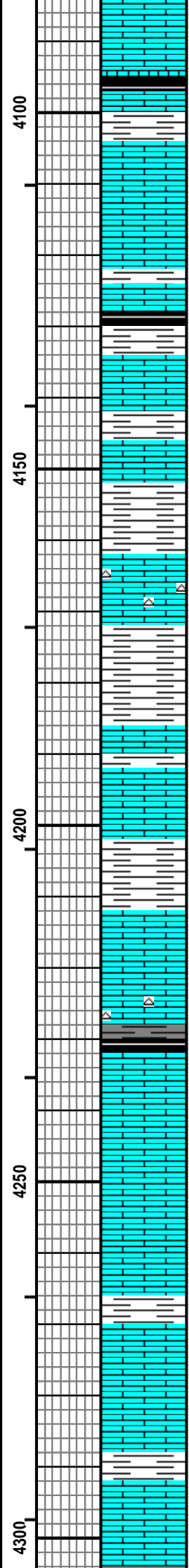
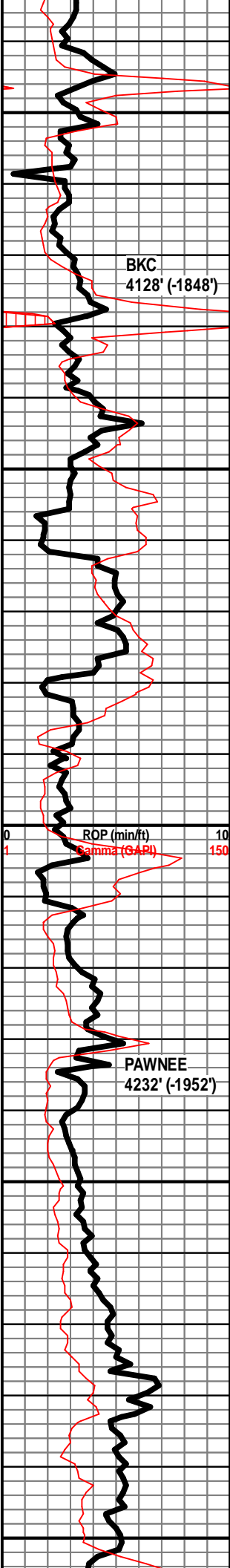
LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

VIS 51
WT 8.8

VIS 51
WT 8.9

VIS 52
WT 9.0

VIS 52
WT 9.1



LS - CRM / WHT, VF / F XLN, SUBCHKY / CHKY

SH - BLK, CARB, W/ LS - CRM / WHT, VF / F XLN, SUBCHKY / CHKY

SH - RD / GRN / GY, W/ LS - TAN / BRN, CRM IN PT, F / M XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT, FOSS IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, CHKY IN PT, FOSS IN PT

SH - BLK, CARB, W/ LS - TAN / GY, F XLN, MOD DNS / DNS

SH - RD / GRN / GY, W/ LS - CRM / WHT, VF XLN, SUBCHKY / CHKY

LS - CRM / WHT IN PT, VF XLN, PRED SUBCHKY / CHKY IN PT, W/ SH - RD / GRN

SH - GY / GRN / RD, W/ LS - CRM / TAN / GY IN PT, F XLN, MOD DNS, FOSS IN PT, W/ CHT - GY, FRSH, SLI TRANSLUCENT

SH - GRN / RD, W/ LS - CRM / WHT, VF XLN, SUBCHKY / CHKY IN PT

SH - GY / GRN / RD, W/ LS - CRM / TAN, F XLN, MOD DNS, DNS, FOSS IN PT

LS - CRM / TAN, F XLN. MOD DNS / DNS, FOSS IN PT, W/ SH - LT GY, SLI SILTY

LS - TAN / BRN IN PT, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - YEL, V SOFT

SH - GR / GRN / RD

LS - CRM / TAN / GY IN PT, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - GY / GRN / RD

SH - DK GY / BLK, CARB, W/ LS - W/ LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS IN PT / W/ CHT - TAN / GY, FRSH, OPAQ, SLI TRANSLUCENT

LS - TAN / GY, F XLN, DNS, FOSS IN PT,

LS - TAN / GY, CRM IN PT, F / VF XLN, PRED DNS, SUBCHKY IN PT, FOSS IN PT

SH - GY / GRN / RD / MAR, W/ LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, CHKY IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - GRN

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

SH - RD / GRN, W/ LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY

VIS 55
WT 9.1

VIS 54
WT 9.1

VIS 58
WT 9.2

DST #1 MISSISSIPPI
4364' - 4396'

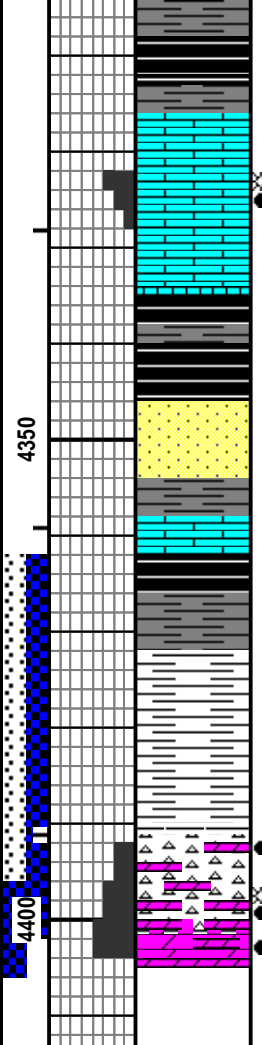
IF: WK BL 1/4" BLD TO 1/2"
ISI: NO BL
FF: NO BL
FSI: NO BL

Rec'd: 15' MO (20% M, 80% O), 40 OCM (25% O, 75% M)

SIP: 1225-1184#
FP: 25-34#, 41-45#
HP: 2135-2091#

DST #2 MISSISSIPPI
4364' - 4401'

IF: WK BL 1/8" SURFACE BL
ISI: NO BL
FF: WK SURFACE BL THRU-OUT
FSI: NO BL



SH - GY, W/ LS - TAN / GY, F XLN, MOD DNS / DNS,
FOSS IN PT

SH - BLK, CARB
LS - TAN / BRN, F / M XLN, MOD DNS / DNS, FOSS, NO VIS POR, NS, NO
ODOR, NO FLUOR

LS - CRM / TAN / LT BRN, F XLN, F / G INTXLN + VUG POR, SSFO, LT
BRN OIL, G SHO OF GAS, G ODOR, BRI YEL-GRN FLUOR, ABUND
FOSS

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY,
FOSS, NS

SH - BLK / GY, CARB

SS - CLR / GY, VF GR, SUB-RND, W CEM, P / F INTGR
POR, FRI IN PT, V DNS IN PT, NS, NO ODOR, NO FLUOR

SH - BLK / GY, CARB, W/ LS - TAN, F XLN, MOD DNS /
DNS, W/ CHT - GY / TAN, FRSH, OPAQ

SH - GY / RD / GRN

SH - GY / GRN / RD / RD-ORNG / LT PURP, W/ CHT - TAN
/ GY, FRSH, OPAQ

CHT - TAN / GY, FEW PIECES FRSH, TRANSLUCENT & OPAQ, PRED
WEATH, F WEATH & VUG POR, FSFO, ABUND OIL SHEEN, G ODOR, BRI
YEL-GRN FLUOR,
CHT - GY, SLI TRANSLUCENT, DOLOMITIC, F / G INTXLN POR, VGSFO,
G SHO OF GAS, G ODOR, BRI YEL GRN FLUOR

DOLO - BRN, VF XLN, SUCROSIC, G INTXLN POR, FSFO, V G ODOR, BRI
YEL-GRN FLUOR

RTD 4406'

Rec'd: 5' CO (100% O), 65 HOCM (40% O, 60%
M)

SIP: 1232-1209#
FP: 24-39#, 45-56#
HP: 2096-2095#

VIS 55
WT 9.2

DST #3 MISSISSIPPI
4396' - 4406'

IF: BOB IN 5 MIN
ISI: 1.5" BLO BK
FF: BOB IN 8 MIN
FSI: SURFACE BLO

Rec'd: 480' GIP, 1070' CO (100% O), 495'
WATER

SIP: 1295-1295#
FP: 45-262#, 271-621#
HP: 2136-2100#

W/ FEW PIECES OF DOLO - BRN, F XLN, G INTXLN & VUG
POR. FSFO. G YEL-GRN FLUOR

W/ DOLO - BRN, MORE THAN ABOVE, F XLN, G INTXLN &
VUG POR, GSFO, G SHO OF GAS, BRI YEL-GRN FLUOR

VIS 54
WT 9.3



TICKET U31050

CHARGE TO: Pickrell Drilling
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 2

FROM: PICKRELL DRLG

1. SERVICE LOCATION: Hub City, KS WELL/PROJECT NO.: 43 LEASE: Foss COUNTY/PARISH: Lea STATE: KS CITY: Barlow DATE: 15 Dec 17 OWNER: _____
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: _____ RIG NAME NO.: _____ SHIPPED: DELIVERED TO: _____ ORDER NO.: _____
 3. WELL TYPE: 0.1 WELL CATEGORY: Development JOB PURPOSE: convert long string 5 1/2" WELL PERMIT NO.: _____ WELL LOCATION: 31-19-21
 4. REFERRAL LOCATION: _____ INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT DF								
575				Reilly	25 mi					6.00	1.50
578				Pump Charge	Long String	1 ea				1250.00	1250.00
402				Controlizer		5 1/2 in		7	00	60.00	420.00
403				Cement Bucket		5 1/2 in		2	ea	250.00	500.00
404				Port Collar		5 1/2 in		1	ea	850.00	850.00
405				Prinxtina Bucket shoe		5 1/2 in		1	ea	1300.00	1300.00
406				Catch drum play & baffle		5 1/2 in		1	ea	225.00	225.00
420				W's ellarous - BARSE-LAK				1	ea	30.00	30.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT REWORKING? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE VANS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 6350.00
 TAX: 6.50
 TOTAL: 6356.50

SWIFT OPERATOR: Asquell APPROVAL: _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



PO Box 466
Nass City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

Ticket No. 31050

CUSTOMER: *Pickrell Drilling*

WEIGHT: *Fees 4 3*

DATE: *15 Dec 17* PAGE: *2* OF: *2*

PRIME REFERENCE	SECONDARY REFERENCE PART NUMBER	LOC	ACQUITTING ACCT	DE	LINK	DESCRIPTION	WEIGHT			UNIT PRICE	AMOUNT
							QTY	L/W	QTY		
<i>325</i>		<i>1</i>				<i>Standard cement (for 2-2)</i>	<i>175</i>	<i>56</i>		<i>12.25</i>	<i>2143.75</i>
<i>094</i>		<i>1</i>				<i>coal</i>	<i>800</i>	<i>16</i>		<i>30.50</i>	<i>2440.00</i>
<i>083</i>		<i>1</i>				<i>SALT</i>	<i>900</i>	<i>16</i>		<i>0.20</i>	<i>180.00</i>
<i>092</i>		<i>1</i>				<i>hyalad - 322</i>	<i>125</i>	<i>16</i>		<i>8.00</i>	<i>1000.00</i>
<i>276</i>		<i>1</i>				<i>Flare</i>	<i>50</i>	<i>16</i>		<i>2.85</i>	<i>142.50</i>
<i>281</i>		<i>1</i>				<i>Mud Flush</i>	<i>500</i>	<i>90</i>		<i>1.25</i>	<i>625.00</i>
<i>221</i>		<i>1</i>				<i>Kel Liguid</i>	<i>2</i>	<i>90</i>		<i>25.00</i>	<i>50.00</i>
<i>195</i>		<i>1</i>				<i>High connection fee</i>	<i>1</i>	<i>00</i>		<i>200.00</i>	<i>200.00</i>
<i>588</i>		<i>1</i>				<i>Damage (cur)</i>	<i>1</i>	<i>00</i>		<i>250.00</i>	<i>250.00</i>
<i>58</i>		<i>1</i>				<i>Service Charge</i>				<i>1.00</i>	<i>267.50</i>

CHANGE SERVICE CHARGE: *18.30*

TONNAGE: *175*

TON MILES: *1.00*

CONTINUATION TOTAL: *5762.75*

JOB LOG

SWIFT Services, Inc.

DATE 15 DEC 17 PAGE NO. 1

CUSTOMER Pickrell Drilling WELL NO. #3 LEASE Foos JOB TYPE cement long string TICKET NO. 31050

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SA-2 cement w/ 1/4# Flocale
								5 1/2 x 20" casing TD = 4405'
								set - 4393" string + 43.90
								Centralize 1, 3, 5, 7, 9, 11, 65 Basket 6, 66
								Port Collar #66 1563'
								12' off bottom 12' above table
	1400							on loc TRK 114
	1535							start 5 1/2 x 20" casing in well
	1730							circulate - drop golden ball
						2200		set basket shoe
	1820	4	12			200		Pump 500 gal mud flush
		4	20			200		Pump 20 bbl KCL fluids
	1830		5					Plug RT - 114 30sk 30sk
	1856	4	35			200		mix SA-2 cement 145sk @ 15.3 ppg
	1915							Drop latch down plug
								Wash out pump & line
	1920	6				200		Displace plug
		6	88			850		
	1945	6	96			1500		Load plug
								Release pressure to rock - dead up
	1950							wait rock
								Rock up
	2030							job complete
								Plugs
								Blaine flat & spatch



CHARGE TO: Pickwell Drilling
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 201033

PAGE 1 OF 1

SERVICE LOCATIONS: **1** *16044 LK*
2
3
4 REFERRAL LOCATION

WELL/PROJECT NO: **3** LEASE: **Foss** COUNTY/PARISH: **1800** STATE: **KS** CITY: **Bazaria** DATE: **6 Dec 17** OWNER:
 TICKET TYPE: SERVICE SALES CONTRACTOR: **Pickwell** RIG NAME/NO.: **16001** SHIPPED TO: **16001** ORDER NO.:
 WELL TYPE: **0.1** WELL CATEGORY: **Development** JOB PURPOSE: **Development** WELL PERMIT NO.:
 INVOICE INSTRUCTIONS: **Development** **Development** **Development** WELL LOCATION: **31-19-21**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M		UNIT PRICE	AMOUNT
		LOG	ACCT	DE			QTY.	U/M		
575					TRK 114		25	mi	5.20	125.00
576					Pump Charge shallow surface		1	ea	800.00	800.00
325					Standard cement		150	sk	12.25	1837.50
279					Bentonite gel		300	lb	25.00	75.00
278					Calcium Chloride		7	sk	40.00	280.00
581					Service charge		150	sk	1.50	225.00
582					Pressure (man)		1	ea	250.00	250.00
290					D-air		2	gal	42.00	84.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X DATE SIGNED: *[Signature]* TIME SIGNED: A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **3676.50**

TOTAL: **3832.10**

SWIFT OPERATOR: *[Signature]* APPROVAL: *[Signature]*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE	PAGE NO.
6 DEC 17	1
TICKET NO.	
31045	

CUSTOMER	WELL NO.	LEASE	JOB TYPE
Kirkrell Drilling	#3	F005	Cement surface pipe

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 sk Standard cement 2 1/2" / 3 1/2" cc 8 5/8" x 28# casing TD = 210'
	1830							on loc TRK 114
	1900							start 8 5/8" x 28# casing in well
	2000							circulate well
	2008	3 1/2	4			200		Run 4 bbl H ₂ O.
	2010	3 1/2				200		Mix STD 2 1/2" 3 1/2" cement, 40' @ 1477 deg
		3 1/2	26			700		110
	2025	3				200		Displace w/ H ₂ O
	2030							← cement to surface ← 8 5/8" ID
	2035	3	12			250		Kickout - Shut in 8 5/8"
								Release pressure to truck
	2040							wash truck
								Break up
	2100							job complete
								Filem that's Isaac



CHARGE TO: Pickcell Drilling Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 331179

PAGE 1 OF 1

SERVICE LOCATIONS: Ness City, KS
 WELL PROJECT NO. 13
 LEASE F005
 COUNTY/PARISH Ness
 RIG NAME/NO. Address
 STATE KS
 CITY Beziro
 DELIVERED TO Location
 WELLS PERMIT NO.
 INVOICE INSTRUCTIONS: 0.1
 WELL TYPE: Co Tools
 WELL CATEGORY: Development
 JOB PURPOSE: Port Collar
 WELL LOCATION: Beziro - 6 1/2 S, Finto

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOG ACCT DEF	DESCRIPTION	QTY		UNIT		AMOUNT
				UM	UM	PRICE	UM	
575			MILEAGE					
576 D			Trk # 112					
330			Pump Charge Port Collar					
276			SMD Cement					
290			Flare					
105			D-Air					
			Port Collar Tool Rental					
581			Service Charge Cement					
582			Minimum Drayage Charge					

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 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X [Signature]
 DATE SIGNED 12-21-17 TIME SIGNED 11:45 A.M. P.M.
REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SWIFT OPERATOR: David Kuehn
 APPROVAL: [Signature]
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 TOTAL: 4940.00
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-21-17 PAGE 1
TICKET NO. 31179

CUSTOMER Pickrell Drilling

WELL NO. #3

LEASE Foss

JOB TYPE Post Colbr

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T ° C	PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
					TUBING	CASING	
	0930						on location 2 7/8 x 5 1/2 P.C. - 1560'
	1020	∅	∅	✓		1000	Pressure Test *Hold* Open P.C.
	1030	3 1/2	5	✓		300	Injection Rate
	1035	4 1/2	85	✓		300	mix 155 sks SMD 1/4" flo @ 11.2 spg circulate cement to P.I. *20 sks*
	1100	4 1/2	8	✓		400	Displace Cement
	1105	∅	∅	✓		1000	Close P.C. Hold Run 3 Jts
	1120	3 1/2	20	✓		200	Reverse Clean wash up truck *155 sks Total* *20 sks To P.I.*
	1145						Job Complete Thank You Drew Preston Wayne