

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 Recompletion Date \_\_\_\_\_ 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](mailto: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)</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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Anchor Bay Petroleum LLC
Well Name	JANE 2
Doc ID	1364759

All Electric Logs Run

Dual Induction
Density - Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Anchor Bay Petroleum LLC
Well Name	JANE 2
Doc ID	1364759

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	3133-3136	250gals 15% HCL MCA	3133-3136
2	3234-3238	2,250gals 15% HCL MCA	3234-3238
2	3369-3376	250gals 15% HFL	3369-3376
4	3486-3487	0	3486-3487
0	3360	CIBP	3360







*Ballman Consulting LLC*  
 APIT# 15-051-26871

GEOLOGIST'S REPORT  
 DRILLING TIME AND SAMPLE LOG

OPERATOR ANCHOR BAY PETROLEUM LLC  
 LEASE JANE WELL NO. 2  
 FIELD UNKNOWN ELEVATION 1902  
 LOCATION 3769 FSL # 4653 FEL  
 SEC. 1 TWP. 11S RGE. 17W  
 COUNTY ELLIS STATE KANSAS  
 CONTRACTOR MAUREN DRILLING INC. RIG #16  
 COMM. 06-24-2017 COOP. 06-30-2017  
 RTD. 3549 LTD 3550  
 SURFACES EXAMINED FROM 2700 TO T.D.  
 SAMPLES EXAMINED FROM 2700 TO T.D.  
 DRILLING TIME NEXT FROM 2700 TO T.D.  
 SURFACES EXAMINED FROM 2700 TO T.D.  
 GEOLOGICAL SUPERVISION FROM 2700 TO T.D.  
 MUD UP 2650 THE MUD FRESH RED CHEM.  
 ELLI WIRELINE TION  
 DATA FROM WESTERN  
 METRO  
 SONIC

FORMATION	TYPE	LOGS	DATE	TOP	DATA	STRATIG.	COMPR.
ANHYDRITE	1107 (793)	1108 (794)	-	-	-	-	-
B/ANHYDRITE	1142 (763)	1144 (760)	-	-	-	-	-
TOPEKA	2826 (-924)	2826 (-924)	+2				
HEEDNER	3057 (-1155)	3057 (-1155)	+1				
LANSING	3099 (-1197)	3099 (-1197)	+1				
B/KANSAS CITY	3365 (-1436)	3365 (-1436)	0				
CHEERT	3491 (-1589)	3491 (-1589)	-1				
ARBUCKLE	3491 (-1589)	3491 (-1589)	-1				
TOTL. DEPTH	3550						

DATE	DEPTH	NO	SIZE	THICK	DEPTH	FEET	VALUES
6-24-17	5710	1	1 1/4	RECD	220	220	3 1/2
6-25-17	570	2	7/8	HTC	6X20	3349	3329
6-27-17	2952						493
6-28-17	3185						
6-29-17	3440						
6-30-17	3549						

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August 22, 2017

Kansas Corporation Commission  
Conservation Division  
266 N. Main St.  
Suite 220  
Wichita, KS 67202

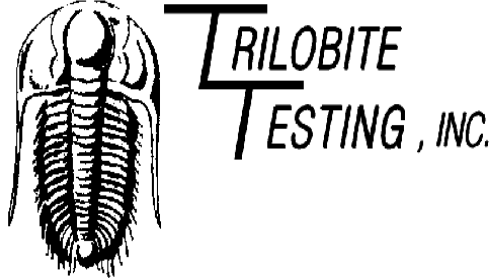
Re: Jane #2, W/2 Section 1 – T11S – R17W; Ellis County Kansas. API 15-051-26871-00-00

To whom it may concern:

Anchor Bay Petroleum LLC hereby requests confidentiality on the aforementioned well for a period of 2 years.

Respectfully submitted,

Ed Glassman  
Petroleum Geologist



## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum, LLC**

1952 Victoria Rd  
Hays KS 67601

ATTN: Ed Glassmann

**Jane #2**

**S1-11S-17W Ellis,KS**

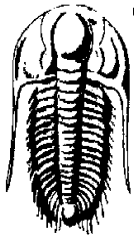
Start Date: 2017.06.27 @ 19:24:00

End Date: 2017.06.28 @ 00:04:00

Job Ticket #: 62980                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.30 @ 09:58:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62980

**DST#: 1**

ATTN: Ed Glassmann

Test Start: 2017.06.27 @ 19:24:00

## GENERAL INFORMATION:

Formation: **LKC "D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:15

Time Test Ended: 00:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

**Interval: 3145.00 ft (KB) To 3185.00 ft (KB) (TVD)**

Reference Elevations: 1902.00 ft (KB)

Total Depth: 3185.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934**

**Inside**

Press@RunDepth: 13.31 psig @ 3146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.27

End Date: 2017.06.28

Last Calib.: 2017.06.28

Start Time: 19:24:15

End Time: 00:04:00

Time On Btm: 2017.06.27 @ 21:08:00

Time Off Btm: 2017.06.27 @ 22:35:15

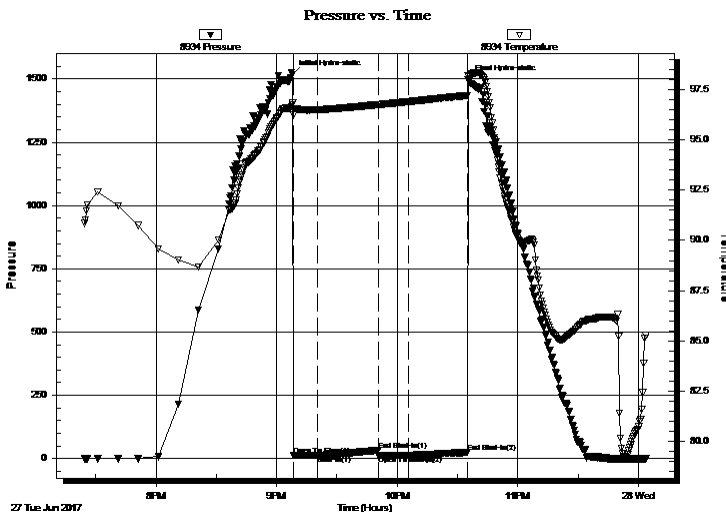
**TEST COMMENT:** 15-IF-Surface Blow ; Built to 1/4"; died back to surface

30-ISI-No Return

15-FF-No Blow

30-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1516.31	96.83	Initial Hydro-static
1	12.58	96.23	Open To Flow (1)
13	13.10	96.51	Shut-In(1)
43	32.29	96.76	End Shut-In(1)
43	12.26	96.75	Open To Flow (2)
58	13.31	96.91	Shut-In(2)
87	23.85	97.22	End Shut-In(2)
88	1497.70	98.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%M	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62980

**DST#: 1**

ATTN: Ed Glassmann

Test Start: 2017.06.27 @ 19:24:00

## Tool Information

Drill Pipe:	Length: 3100.00 ft	Diameter: 3.80 inches	Volume: 43.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3145.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3126.00	
Shut In Tool	5.00			3131.00	
Hydraulic tool	5.00			3136.00	
Packer	5.00			3141.00	20.00 Bottom Of Top Packer
Packer	4.00			3145.00	
Stubb	1.00			3146.00	
Recorder	0.00	9120	Inside	3146.00	
Recorder	0.00	8934	Inside	3146.00	
Perforations	1.00			3147.00	
Change Over Sub	1.00			3148.00	
Drill Pipe	32.00			3180.00	
Change Over Sub	1.00			3181.00	
Bullnose	4.00			3185.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62980

**DST#: 1**

ATTN: Ed Glassmann

Test Start: 2017.06.27 @ 19:24:00

## 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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
3.00	Mud 100%M	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2LCM



Serial #: 8934

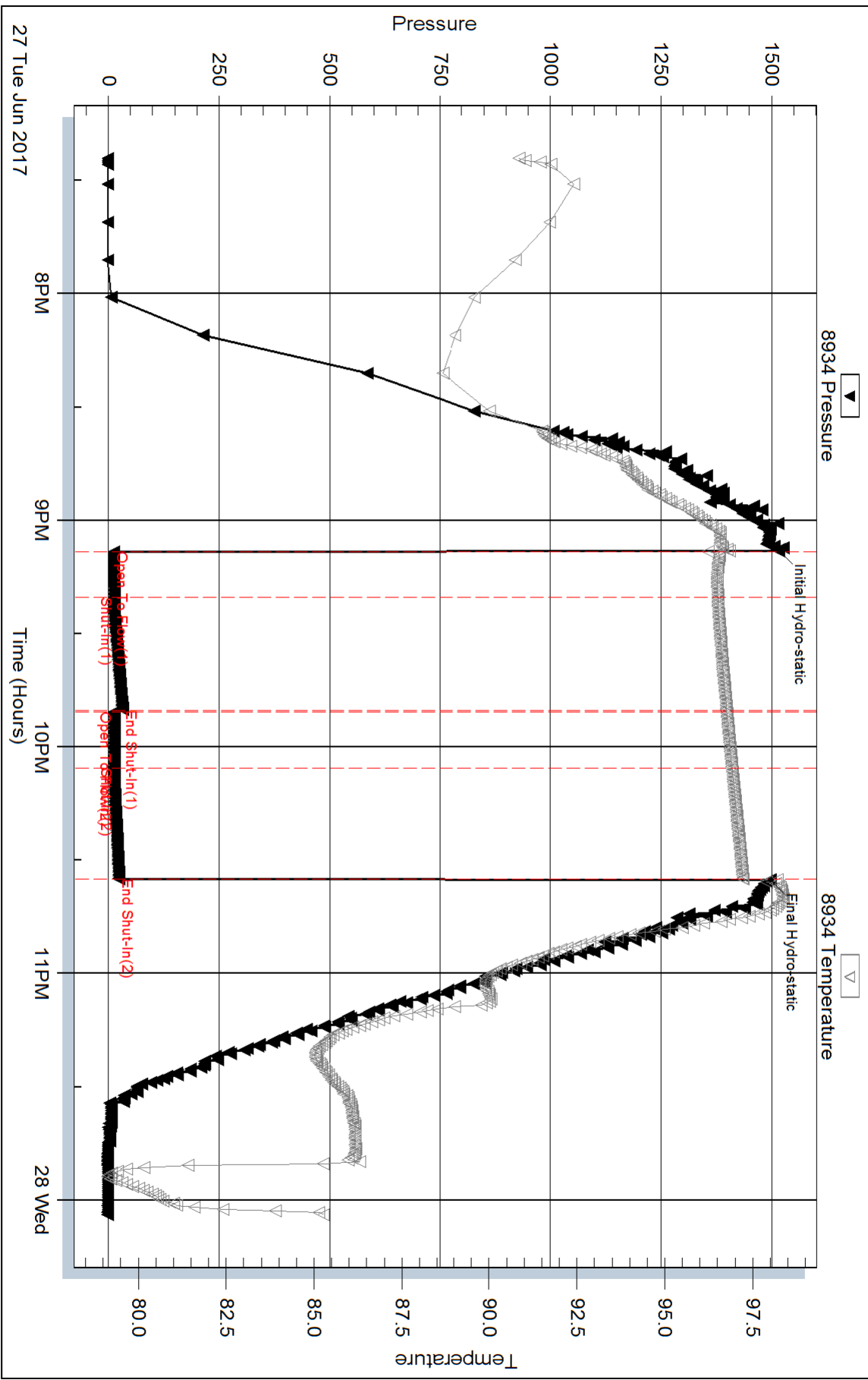
Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 62980

Printed: 2017.06.30 @ 09:58:36

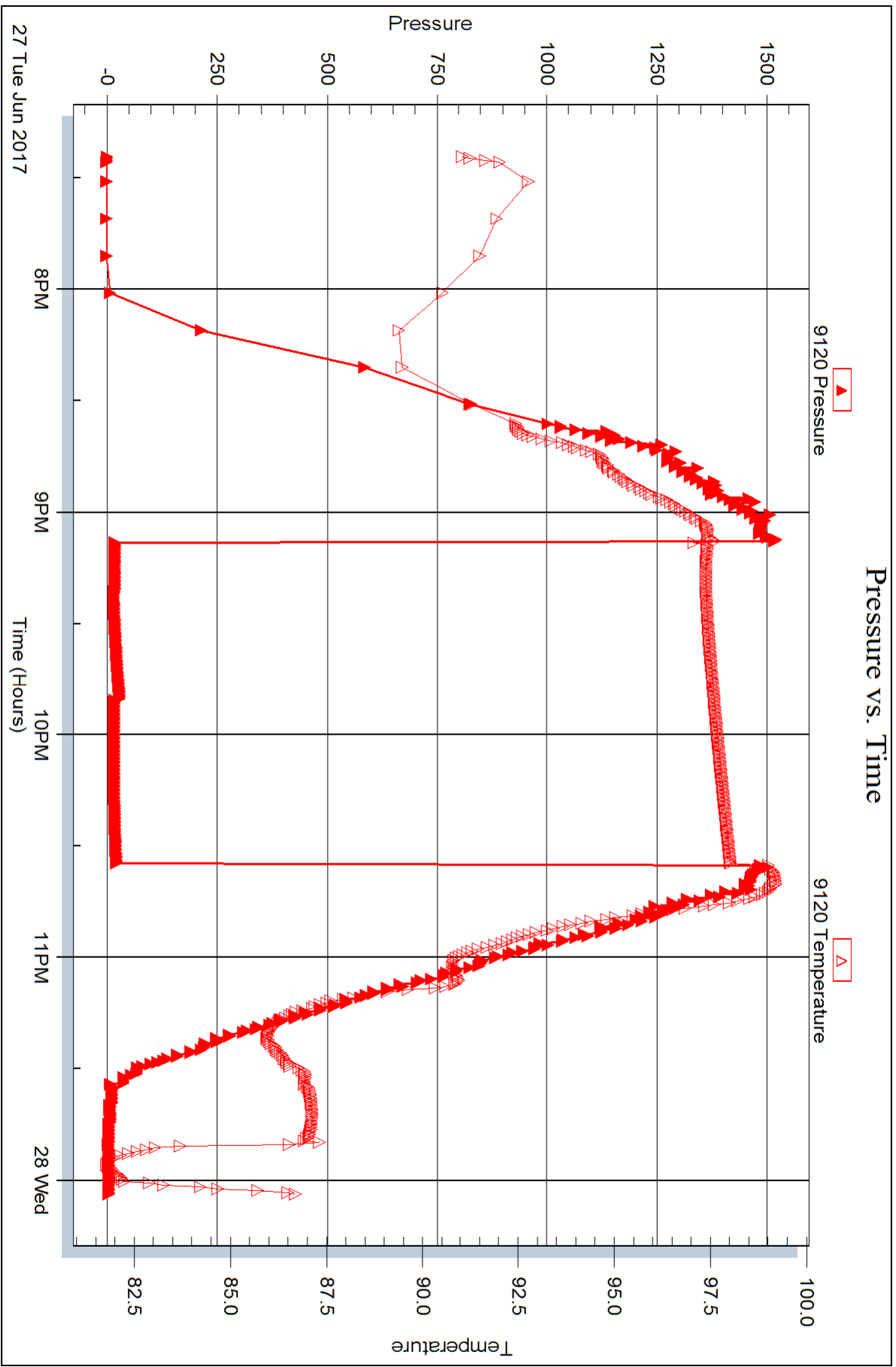
Serial #: 9120

Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum, LLC**

1952 Victoria Rd  
Hays KS 67601

ATTN: Ed Glassmann

**Jane #2**

**S1-11S-17W Ellis,KS**

Start Date: 2017.06.28 @ 09:57:00

End Date: 2017.06.28 @ 15:18:00

Job Ticket #: 62981                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.30 @ 09:58:11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62981

**DST#: 2**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 09:57:00

## GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:30

Time Test Ended: 15:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

**Interval: 3228.00 ft (KB) To 3316.00 ft (KB) (TVD)**

Reference Elevations: 1902.00 ft (KB)

Total Depth: 3316.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934**

**Inside**

Press@RunDepth: 26.91 psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.28

End Date:

2017.06.28

Last Calib.:

2017.06.28

Start Time: 09:57:15

End Time:

15:18:00

Time On Btm:

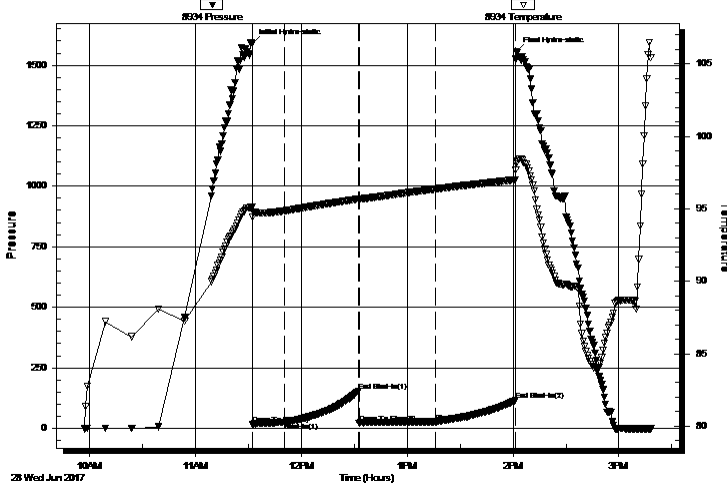
2017.06.28 @ 11:32:15

Time Off Btm:

2017.06.28 @ 14:02:00

**TEST COMMENT:** 15-IF-Weak Blow ; Built from surface to 1"  
45-ISI-No Return  
45-FF-Weak Blow ; Built from surface to 1 1/2"  
45-FSI-No Return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.64	95.14	Initial Hydro-static
1	15.63	94.42	Open To Flow (1)
18	24.07	94.86	Shut-In(1)
60	153.22	95.69	End Shut-In(1)
61	19.79	95.64	Open To Flow (2)
104	26.91	96.37	Shut-In(2)
149	114.36	97.01	End Shut-In(2)
150	1556.96	98.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 20%O 80%M	0.27

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62981

**DST#: 2**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 09:57:00

## Tool Information

Drill Pipe:	Length: 3195.00 ft	Diameter: 3.80 inches	Volume: 44.82 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	47000.00 lb
Drill Pipe Above KB:	19.00 ft			Final	47000.00 lb
Depth to Top Packer:	3228.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	88.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3209.00	
Shut In Tool	5.00			3214.00	
Hydraulic tool	5.00			3219.00	
Packer	5.00			3224.00	20.00 Bottom Of Top Packer
Packer	4.00			3228.00	
Stubb	1.00			3229.00	
Recorder	0.00	9120	Inside	3229.00	
Recorder	0.00	8934	Inside	3229.00	
Perforations	1.00			3230.00	
Change Over Sub	1.00			3231.00	
Drill Pipe	63.00			3294.00	
Change Over Sub	1.00			3295.00	
Perforations	17.00			3312.00	
Bullnose	4.00			3316.00	88.00 Bottom Packers & Anchor

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62981

**DST#: 2**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 09:57:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 20%O 80%M	0.270

Total Length: 40.00 ft      Total Volume: 0.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1/2#LCM

Serial #: 8934

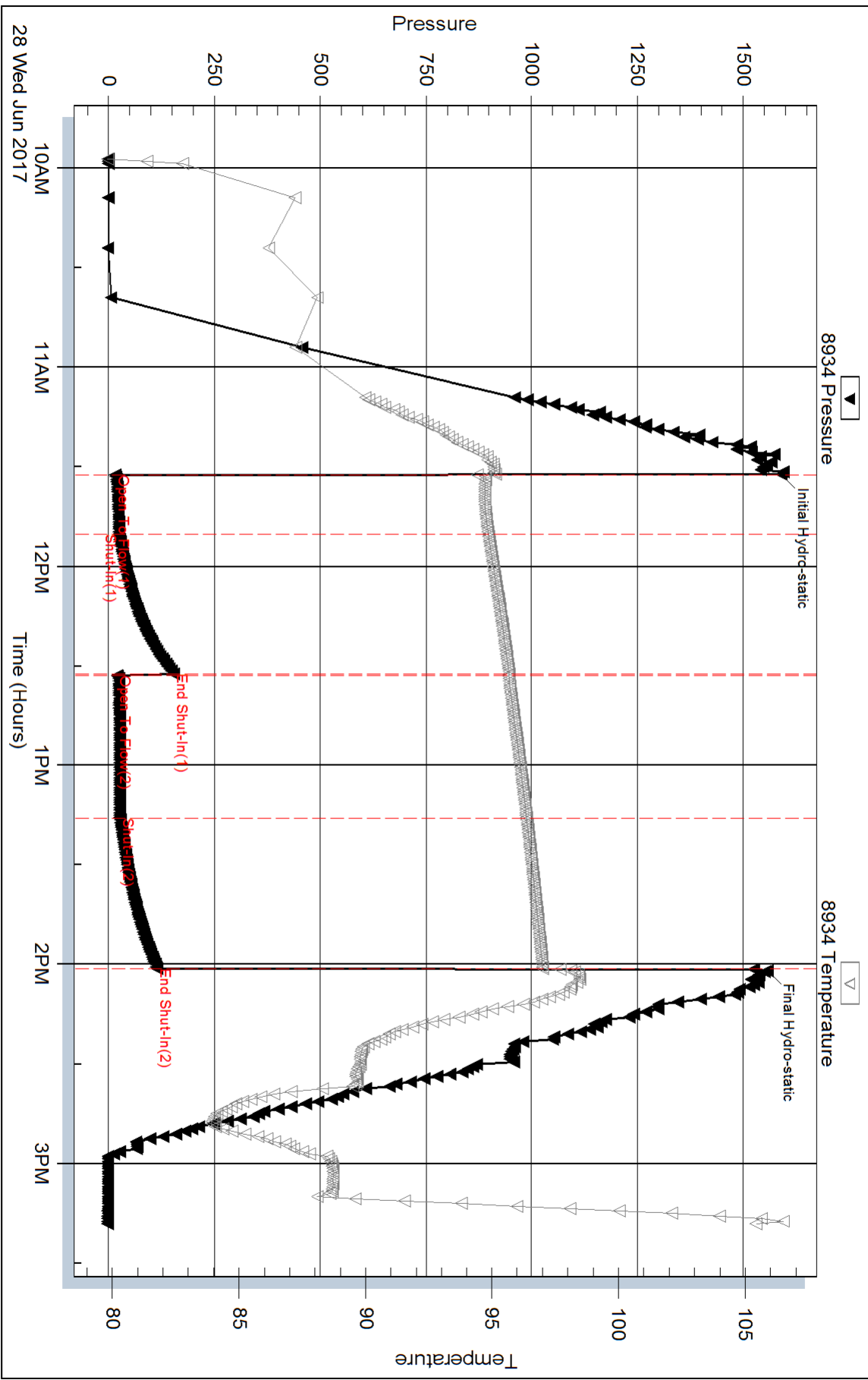
Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 62981

Printed: 2017.06.30 @ 09:58:11



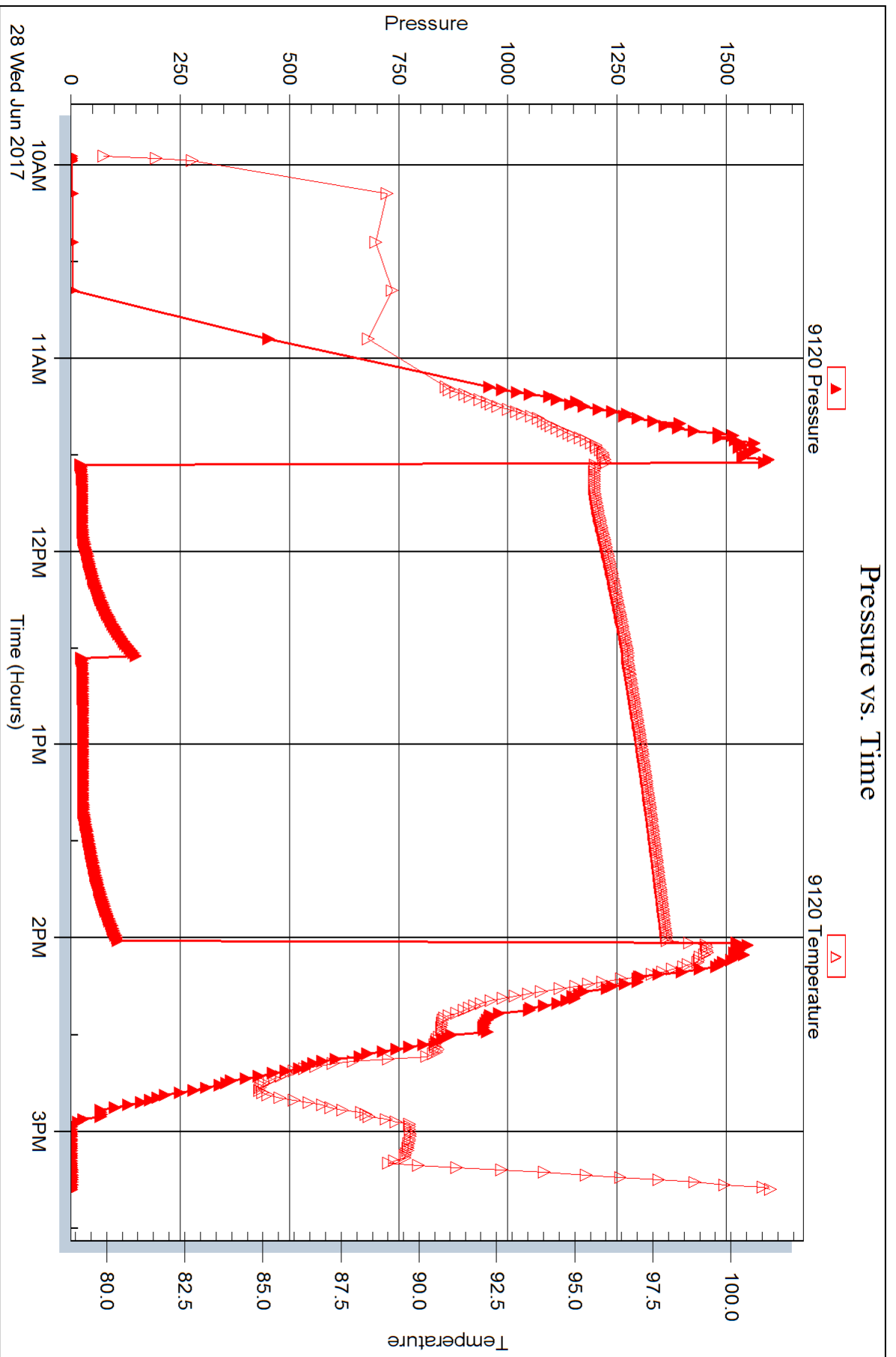
Serial #: 9120

Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62981

Printed: 2017.06.30 @ 09:58:12



## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum, LLC**

1952 Victoria Rd  
Hays KS 67601

ATTN: Ed Glassmann

**Jane #2**

**S1-11S-17W Ellis,KS**

Start Date: 2017.06.28 @ 23:21:00

End Date: 2017.06.29 @ 03:47:15

Job Ticket #: 62982                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.30 @ 09:57:38



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62982

**DST#: 3**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 23:21:00

## GENERAL INFORMATION:

Formation: **Chert Conglomerate**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:51:45

Time Test Ended: 03:47:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

**Interval: 3357.00 ft (KB) To 3410.00 ft (KB) (TVD)**

Reference Elevations: 1902.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934**

**Inside**

Press@RunDepth: 27.95 psig @ 3358.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.28

End Date:

2017.06.29

Last Calib.:

2017.06.29

Start Time: 23:21:15

End Time:

03:47:15

Time On Btm:

2017.06.29 @ 00:51:30

Time Off Btm:

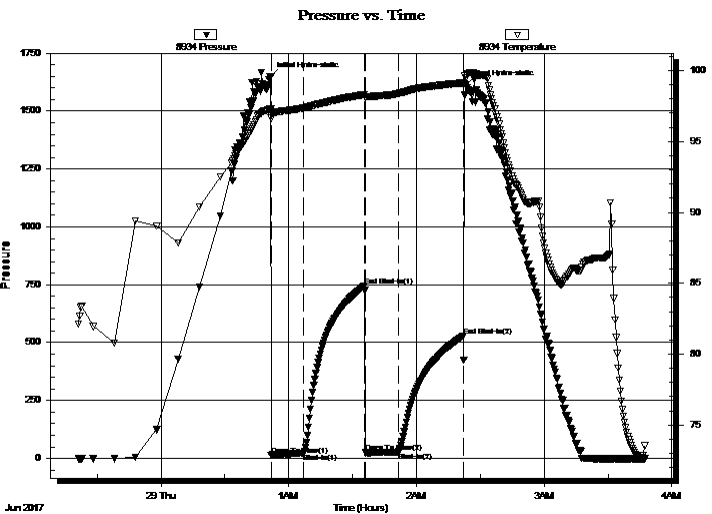
2017.06.29 @ 02:23:15

**TEST COMMENT:** 15-IF-Weak Blow ; Built from surface to 1 1/4"

30-ISI-No Return

15-FF-No Blow

30-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.50	97.31	Initial Hydro-static
1	14.18	96.64	Open To Flow (1)
16	22.40	97.35	Shut-In(1)
44	743.79	98.31	End Shut-In(1)
45	24.61	98.07	Open To Flow (2)
61	27.95	98.39	Shut-In(2)
91	528.47	99.13	End Shut-In(2)
92	1613.52	99.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 2% O 98%M	0.12

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62982

**DST#: 3**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 23:21:00

## Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.80 inches	Volume: 46.64 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	47000.00 lb
Drill Pipe Above KB:	20.00 ft			Final	47000.00 lb
Depth to Top Packer:	3357.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3338.00	
Shut In Tool	5.00			3343.00	
Hydraulic tool	5.00			3348.00	
Packer	5.00			3353.00	20.00 Bottom Of Top Packer
Packer	4.00			3357.00	
Stubb	1.00			3358.00	
Recorder	0.00	9120	Inside	3358.00	
Recorder	0.00	8934	Inside	3358.00	
Perforations	1.00			3359.00	
Change Over Sub	1.00			3360.00	
Drill Pipe	31.00			3391.00	
Change Over Sub	1.00			3392.00	
Perforations	14.00			3406.00	
Bullnose	4.00			3410.00	53.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62982

**DST#: 3**

ATTN: Ed Glassmann

Test Start: 2017.06.28 @ 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 2% O 98%M	0.123

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1/2#LCM

Serial #: 8934

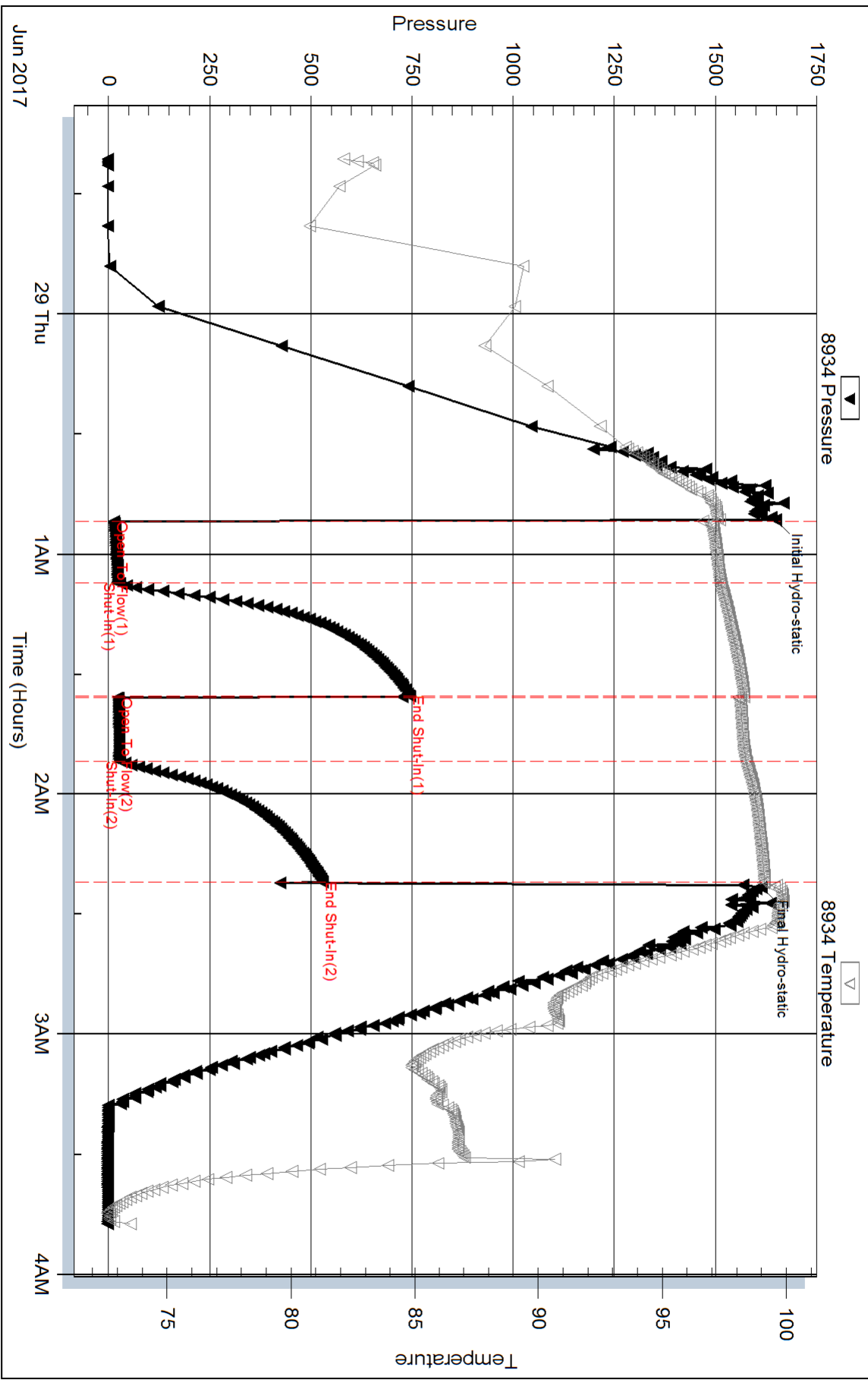
Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 62982

Printed: 2017.06.30 @ 09:57:40

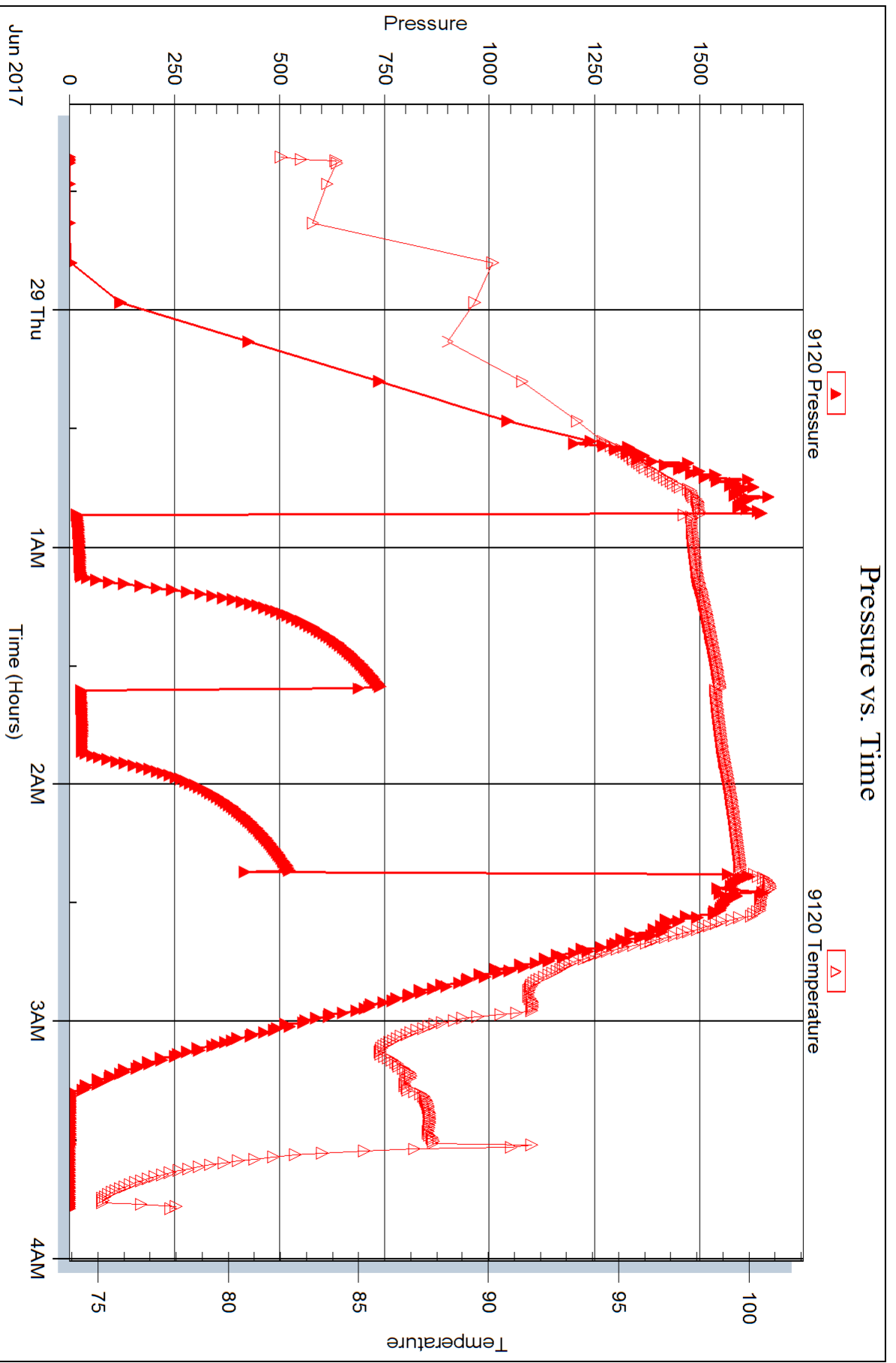
Serial #: 9120

Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum, LLC**

1952 Victoria Rd  
Hays KS 67601

ATTN: Ed Glassmann

**Jane #2**

**S1-11S-17W Ellis,KS**

Start Date: 2017.06.29 @ 20:42:00

End Date: 2017.06.30 @ 04:01:45

Job Ticket #: 62983                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.30 @ 09:57:11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62983

**DST#: 4**

ATTN: Ed Glassmann

Test Start: 2017.06.29 @ 20:42:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:45

Time Test Ended: 04:01:45

Test Type: Conventional Straddle (Reset)

Tester: Spencer J. Staab

Unit No: 84

**Interval: 3218.00 ft (KB) To 3248.00 ft (KB) (TVD)**

Reference Elevations: 1902.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8934 Outside**

Press@RunDepth: 24.88 psig @ 3219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.29

End Date:

2017.06.30

Last Calib.: 2017.06.30

Start Time: 20:42:15

End Time:

04:01:45

Time On Btm: 2017.06.29 @ 23:25:30

Time Off Btm: 2017.06.30 @ 02:36:00

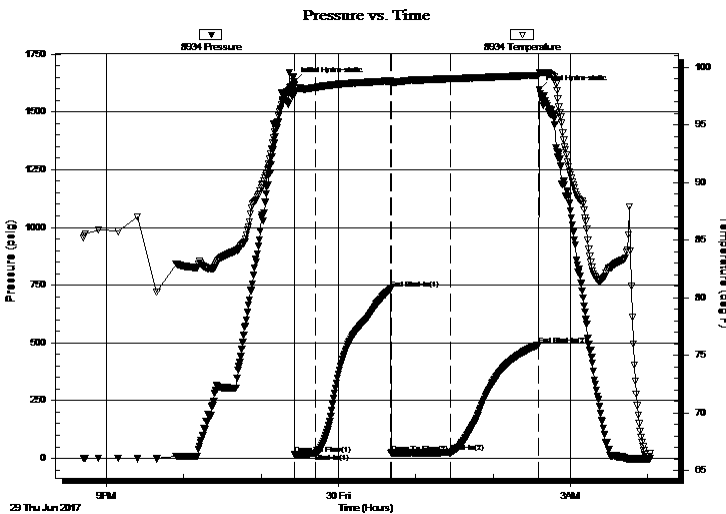
**TEST COMMENT:** 15-IF-Weak Blow ; Built from surface to 1"

60-ISI-No Return

45-FF-Surface Blow ; died in 2 mins

60-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.50	98.45	Initial Hydro-static
1	18.55	97.66	Open To Flow (1)
17	22.15	98.25	Shut-In(1)
75	732.12	98.82	End Shut-In(1)
76	23.04	98.51	Open To Flow (2)
122	24.88	99.00	Shut-In(2)
190	491.13	99.30	End Shut-In(2)
191	1597.19	99.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks	0.05

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62983

**DST#: 4**

ATTN: Ed Glassmann

Test Start: 2017.06.29 @ 20:42:00

## Tool Information

Drill Pipe:	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 47000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3218.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3248.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	352.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3199.00	
Shut In Tool	5.00			3204.00	
Hydraulic tool	5.00			3209.00	
Packer	5.00			3214.00	20.00 Bottom Of Top Packer
Packer	4.00			3218.00	
Stubb	1.00			3219.00	
Recorder	0.00	9120	Inside	3219.00	
Recorder	0.00	8934	Outside	3219.00	
Perforations	25.00			3244.00	
Blank Off Sub	1.00			3245.00	
top of s.packer	3.00			3248.00	30.00 Tool Interval
Packer	0.00			3248.00	
Stubb	1.00			3249.00	
Perforations	10.00			3259.00	
Change Over Sub	1.00			3260.00	
Recorder	0.00	8368	Below	3260.00	
Drill Pipe	285.00			3545.00	
Change Over Sub	1.00			3546.00	
Bullnose	4.00			3550.00	302.00 Bottom Packers & Anchor

**Total Tool Length: 352.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum, LLC

**S1-11S-17W Ellis,KS**

1952 Victoria Rd  
Hays KS 67601

**Jane #2**

Job Ticket: 62983

**DST#: 4**

ATTN: Ed Glassmann

Test Start: 2017.06.29 @ 20:42:00

## 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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /oil specks	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 1&1/2#LCM

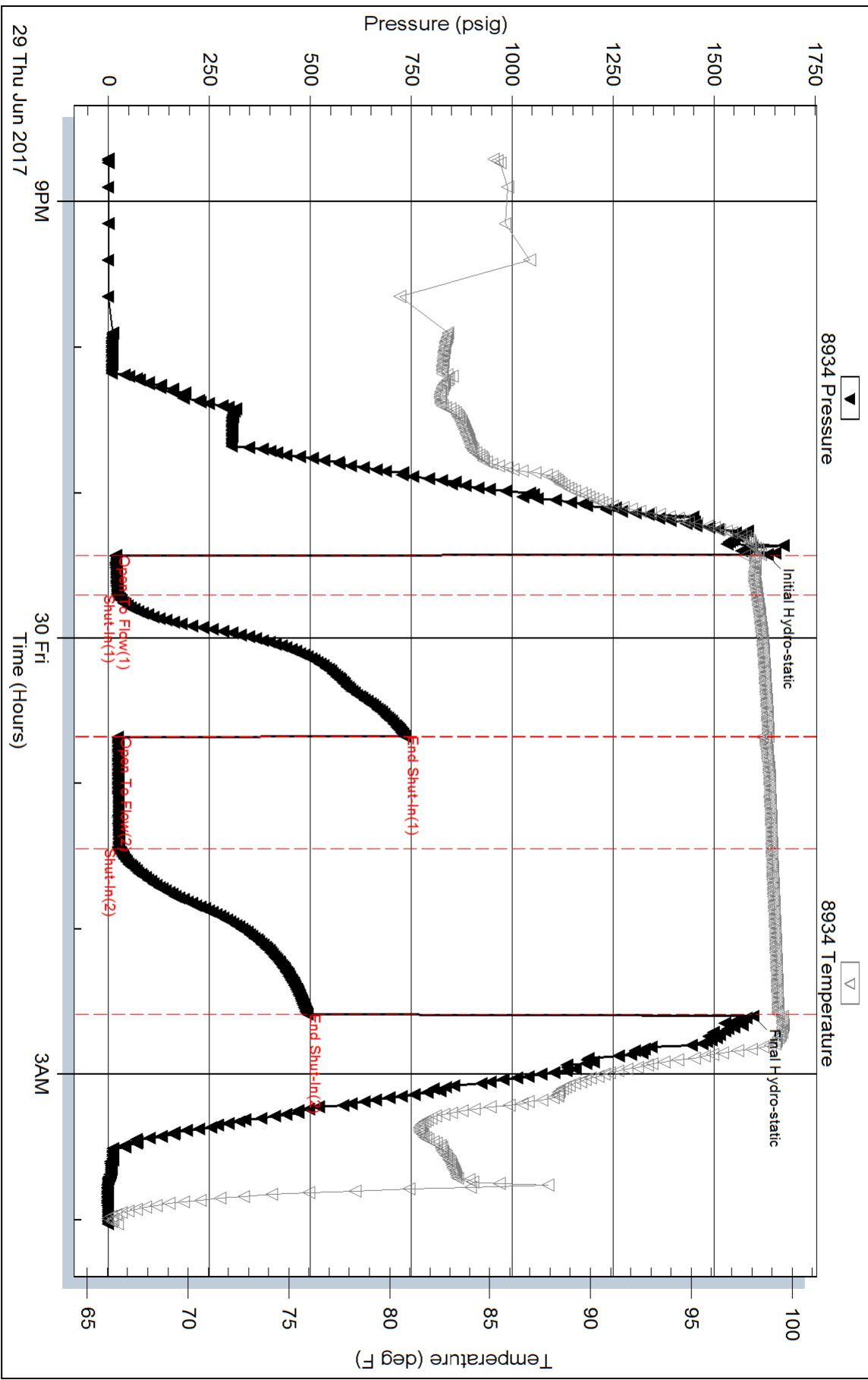
Serial #: 8934

Outside Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 4

### Pressure vs. Time



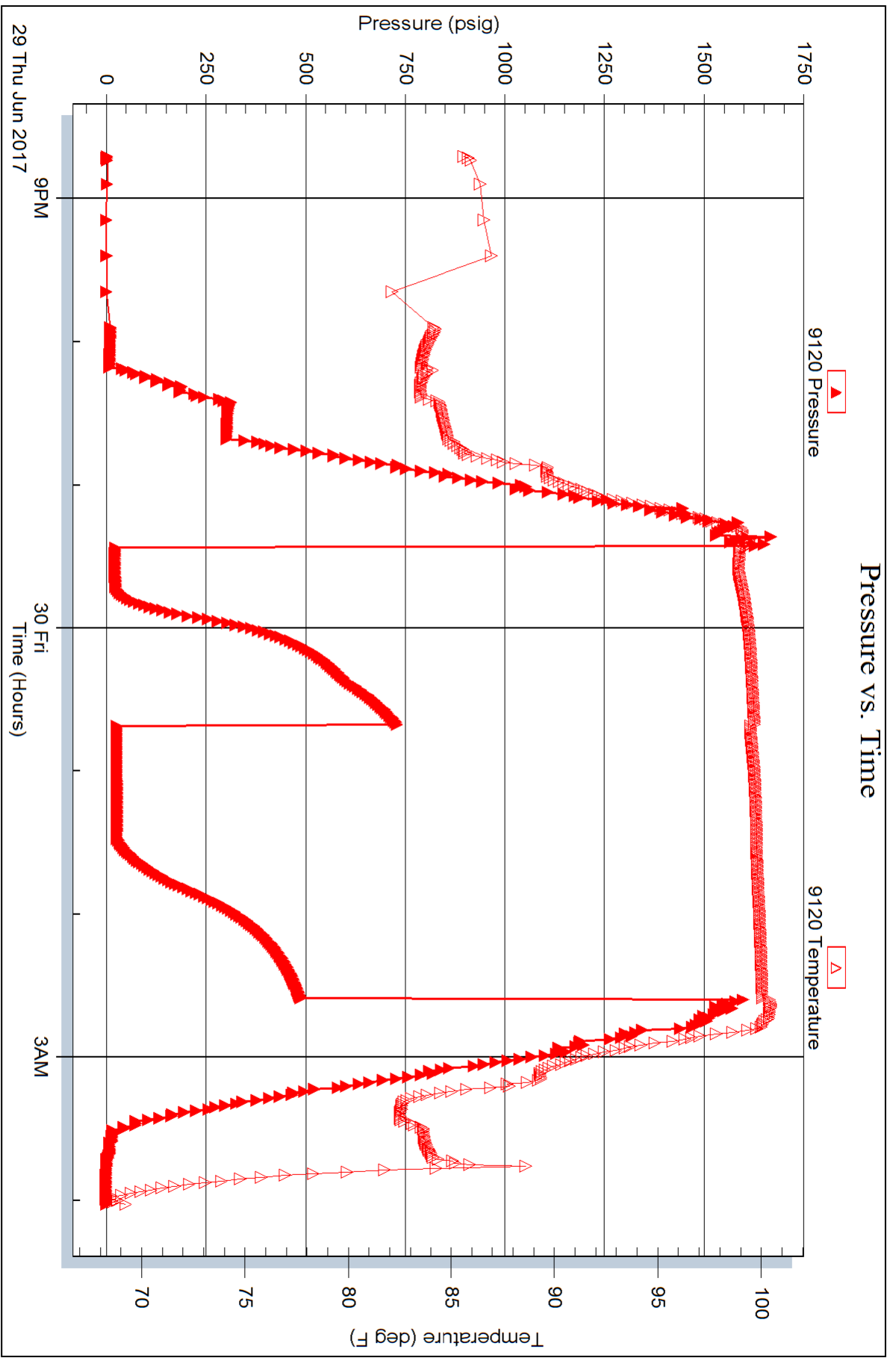
Serial #: 9120

Inside

Anchor Bay Petroleum, LLC

Jane #2

DST Test Number: 4



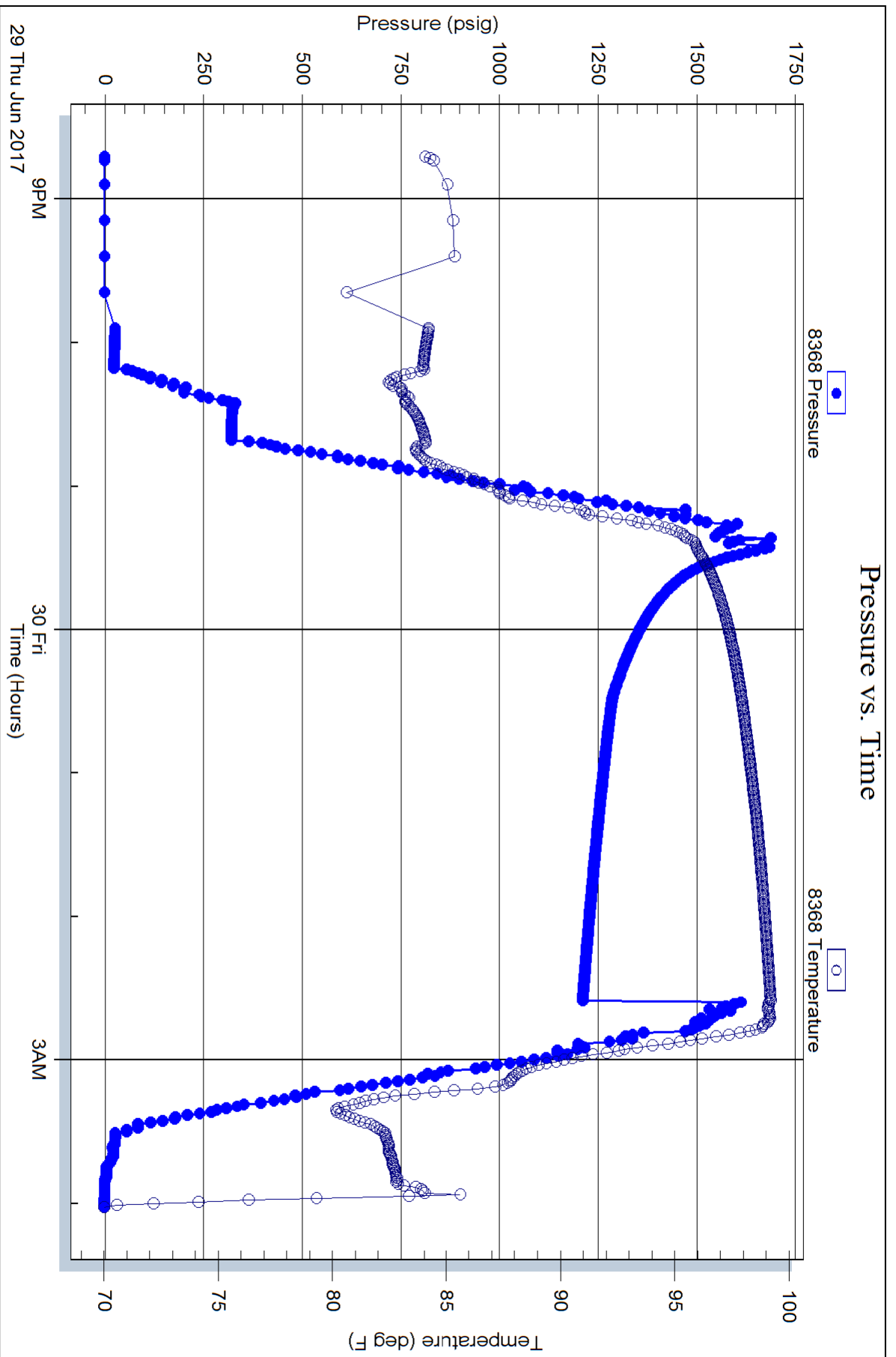


Serial #: 8368

Below (Stratfield) Bay Petroleum, LLC

Jane #2

DST Test Number: 4



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1574

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-22-17	1	11	17	Ellis	KS		5:00 pm

Location *Cedar + River Road NW 1 3/4 E N 140*

Lease	Well No.	Owner	
<i>Jane</i>	<i>2</i>	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	Type Job	Charge To	
<i>Mundin #16</i>	<i>Surface</i>	<i>Anchor Bay</i>	
Hole Size	T.D.	Street	
<i>12 1/4</i>	<i>220</i>		
Csg.	Depth	City	
<i>8 5/8</i>	<del>217</del> <i>217</i>	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered <i>150 8/20 3/CC 2/CEL</i>	
Cement Left in Csg.	Shoe Joint		
<i>10</i>			
Meas Line	Displace		
	<i>13 B2</i>		

**EQUIPMENT**

Pumptrk	No.	Cementer Helper	Common
<i>5</i>		<i>5</i>	Poz. Mix
Bulktrk	No.	Driver	Gel.
		<i>5</i>	
Bulktrk	No.	Driver	Calcium
<i>14</i>		<i>10</i>	

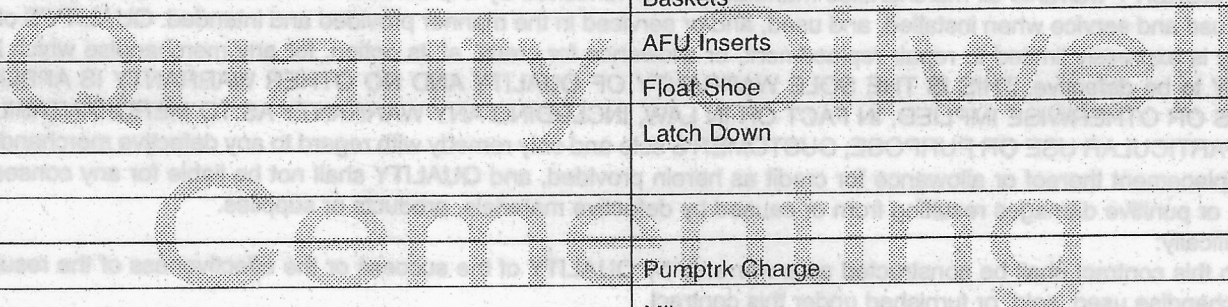
**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>8 5/8 on bottom ESP circulation</i>	Sand
<i>Mix used in place</i>	Handling
	Mileage

**FLOAT EQUIPMENT**

<i>Cement Circulators</i>	Guide Shoe
	<i>8 5/8 Swage</i>
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

Signature <i>[Signature]</i>	Tax
	Discount
	Total Charge



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

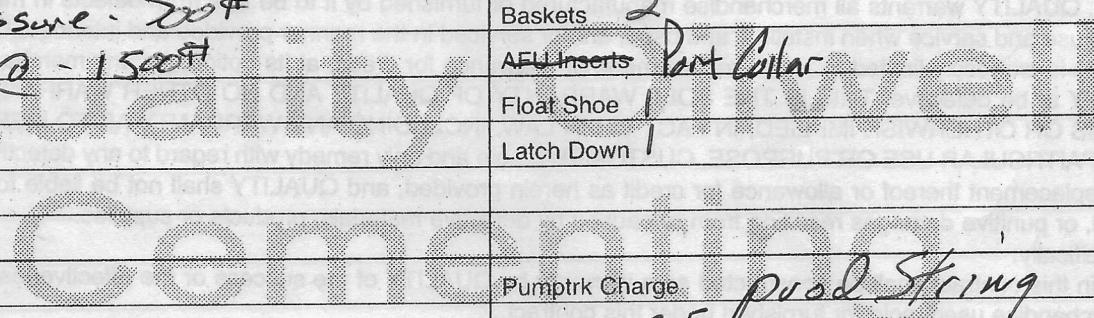
Home Office P.O. Box 32 Russell, KS 67665

No. 1578

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-30-17	1	11	17	Ellis	KS		2:30pm
Location				Cedell & River Road 1/2 1 3/4 E Ninto			
Lease	Jare			Well No.	2		
Contractor	Muntin #16			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.			
Type Job	Production String			Charge To Anchor Bay			
Hole Size	7 7/8			T.D.	3549		
Csg.	5 1/2 1550*			Depth	3545		
Tbg. Size				Depth			
Tool	Port Collar #58			Depth	1118		
Cement Left in Csg.	42'			Shoe Joint	42'		
Meas Line	Displace			83 1/4 BCL 5% Carlsomite 500 gal mud clear			
<b>EQUIPMENT</b>				Common 180			
Pumptrk	5	No.	Cementer	Poz. Mix			
			Helper				
Bulktrk		No.	Driver	Gel.			
			Driver				
Bulktrk	3	No.	Driver	Calcium			
			Driver				
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Remarks:				Salt 15			
Rat Hole 30SK				Flowseal			
Mouse Hole 155K				Kol-Seal 800#			
Centralizers				Mud CLR 48 500 gal			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
5 1/2 size 3545. Baffle 3503				Handling 203			
Est. Circulation Pump 500 gal mud clear				Mileage			
Plug Reathole w/ 30SK & mousehole 155K				<b>FLOAT EQUIPMENT</b>			
Cement 5 1/2 with 135SK				Guide Shoe			
Clear lines & Displace Plug.				Centralizer 5			
Lift Pressure - 200#				Baskets 2			
Plug lance - 1500ft				AEU Inserts Port Collar			
				Float Shoe 1			
				Latch Down 1			
				Pumptrk Charge			
				Mileage 25			
				Tax			
				Discount			
				Total Charge			
Signature							

*E. J. Harrison*





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 272

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

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

Date	7-27-17	Sec.	Twp.	Range	County	State	On Location	Finish
					Ellis	Ks		1:30 PM

Location Cordell Rd + River Rd Jct, IN, 1 3/4 E

Lease	Jane	Well No.	2	Owner	N/INTB
Contractor	Professional	Pulling Service		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.	
Type Job	Port Collar			Charge To	Anchor Bay
Hole Size		T.D.		Street	
Csg.	5 7/8"	Depth		City	State
Tbg. Size	2 3/8"	Depth	1118'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Port Collar	Depth	1118'	Cement Amount Ordered	275 80/20 QMDC 1/4# Flo-seal
Cement Left in Csg.		Shoe Joint			

Meas Line	Displace	H2O	7 gal used 250
<b>EQUIPMENT</b>			Common 250 80/20 QMDC
Pumptrk	18	No. Cementer Helper	Travis
Bulktrk	9	No. Driver	Tony
Bulktrk	p.u.	No. Driver	Rick
<b>JOB SERVICES &amp; REMARKS</b>			Hulls

Remarks:	load backside + test tool	Salt
Rat Hole	+ held open tool establish a blow.	Flowseal 75#
Mouse Hole	mix 75x gel, First 3 sx	Kol-Seal
Centralizers	with backside open mix 2755x	Mud CLR 48
Baskets	Cement. + Displaced w/ 3 1/2 BLS H2O	CFL-117 or CD110 CAF 38
D/V or Port Collar	Closed tool + held 700#	Sand
Run 5 Jts + wash clean.		Handling 275
		Mileage

Cement did Circulate	<b>FLOAT EQUIPMENT</b>
	Guide Shoe
	Centralizer
Used 250 3K	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage 25

Signature	Edgmanman	Tax	
		Discount	
		Total Charge	

# 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. 275

Date	7-31-17	Sec.	Twp.	Range	County	State	On Location	Finish
					Ellis	Ks		1:00 PM

Location Codell Rd + River Rd Jct,

Lease	Jane	Well No.	2	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	Professional	Pulling Service		Charge To	Anchor Bay
Type Job	Squeeze	T.D.		Street	
Hole Size		Depth		City	State
Csg.	5 1/2"	Depth	3149'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size	2 3/8"	Depth	3164'	Cement Amount Ordered	150 Com 2% CC
Tool	RBP	Shoe Joint		Meas Line	Displace
Cement Left in Csg.				H2O	2 Sand

**EQUIPMENT**

Pumptrk	16	No.	Cementer	Helper	Travis	Poz. Mix
Bulktrk	15	No.	Driver	Driver	Tony	Gel.
Bulktrk	pm	No.	Driver	Driver	Rick	Calcium
						3

**JOB SERVICES & REMARKS**

Remarks:	2 Sand @ 3149'	Hulls
Rat Hole	Perfs 3133'-36'	Salt
Mouse Hole	Packer @ 3010' to squeeze	Flowseal
Centralizers	Injection Rate of 2 1/4 BPM @	Kol-Seal
Baskets	500 #	Mud CLR 48
D/V or Port Collar	Pressure backside to 300#	CFL-117 or CD110 CAF 38
	Shut in. Take injection rate, mix 150 ex cement, shut down	Sand
	wash pump + lines. Displaced w/ H2O Staged + Squeezed to 180 #, broke down to 60#.	Handling
	Final pressure 1800#	Mileage
	Released + hold, wash around the packer pull 3 JTs + pressure to 500# + Shut in.	

**FLOAT EQUIPMENT**

		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

Rigged down

Pumptrk Charge	Squeeze	Tax
Mileage	25	Discount
		Total Charge

X Signature E. J. Cassman