

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. 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				

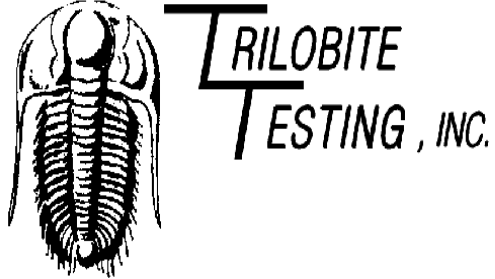
1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted 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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DRILL STEM TEST REPORT

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

1952 Victoria Rd.
Hays, KS 67601

ATTN: Ed Glassman

Hazen #1

19-8S-18W Rooks,KS

Start Date: 2018.09.02 @ 03:41:34

End Date: 2018.09.02 @ 12:53:04

Job Ticket #: 63143 DST #: 1

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

Printed: 2018.09.05 @ 13:49:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63143

DST#: 1

ATTN: Ed Glassman

Test Start: 2018.09.02 @ 03:41:34

GENERAL INFORMATION:

Formation: **Toronto- LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:52:34
 Time Test Ended: 12:53:04
 Interval: **3211.00 ft (KB) To 3285.00 ft (KB) (TVD)**
 Total Depth: 3285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2045.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 7.00 ft

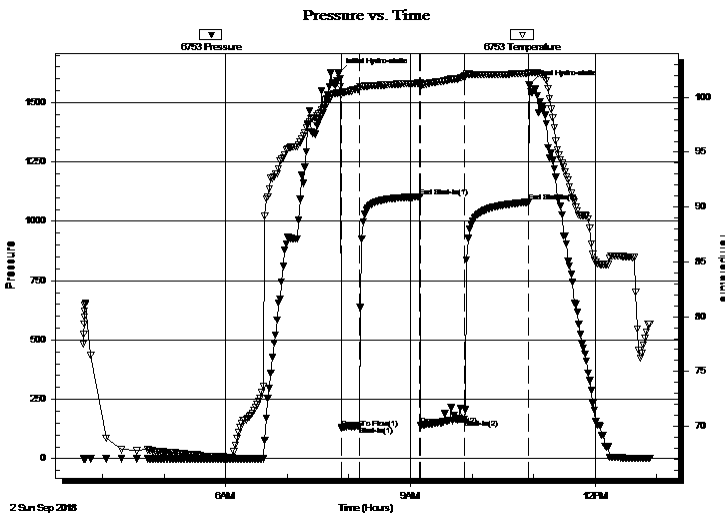
Serial #: 6753

Inside

Press@RunDepth: 166.51 psig @ 3212.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.02 End Date: 2018.09.02 Last Calib.: 2018.09.02
 Start Time: 03:41:39 End Time: 12:53:04 Time On Btm: 2018.09.02 @ 07:50:34
 Time Off Btm: 2018.09.02 @ 10:55:34

TEST COMMENT: 15- IF- Weak surface blow
 60- IS- No blow
 45- FF- Built slow ly to 1"
 60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.18	100.47	Initial Hydro-static
2	127.47	100.24	Open To Flow (1)
20	137.15	100.78	Shut-In(1)
79	1103.02	101.31	End Shut-In(1)
79	141.81	101.07	Open To Flow (2)
122	166.51	101.90	Shut-In(2)
184	1080.31	102.19	End Shut-In(2)
185	1577.08	102.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
288.00	M	4.08

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63143

DST#: 1

ATTN: Ed Glassman

Test Start: 2018.09.02 @ 03:41:34

Tool Information

Drill Pipe:	Length: 3208.00 ft	Diameter: 3.82 inches	Volume: 45.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3211.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3192.00	
Shut In Tool	5.00			3197.00	
Hydraulic tool	5.00			3202.00	
Packer	5.00			3207.00	20.00 Bottom Of Top Packer
Packer	4.00			3211.00	
Stubb	1.00			3212.00	
Recorder	0.00	6753	Inside	3212.00	
Recorder	0.00	6771	Outside	3212.00	
Perforations	5.00			3217.00	
Change Over Sub	1.00			3218.00	
Drill Pipe	63.00			3281.00	
Change Over Sub	1.00			3282.00	
Bullnose	3.00			3285.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum, LLC

19-8S-18W Rooks, KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63143

DST#: 1

ATTN: Ed Glassman

Test Start: 2018.09.02 @ 03:41:34

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:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
288.00	M	4.083

Total Length: 288.00 ft

Total Volume: 4.083 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

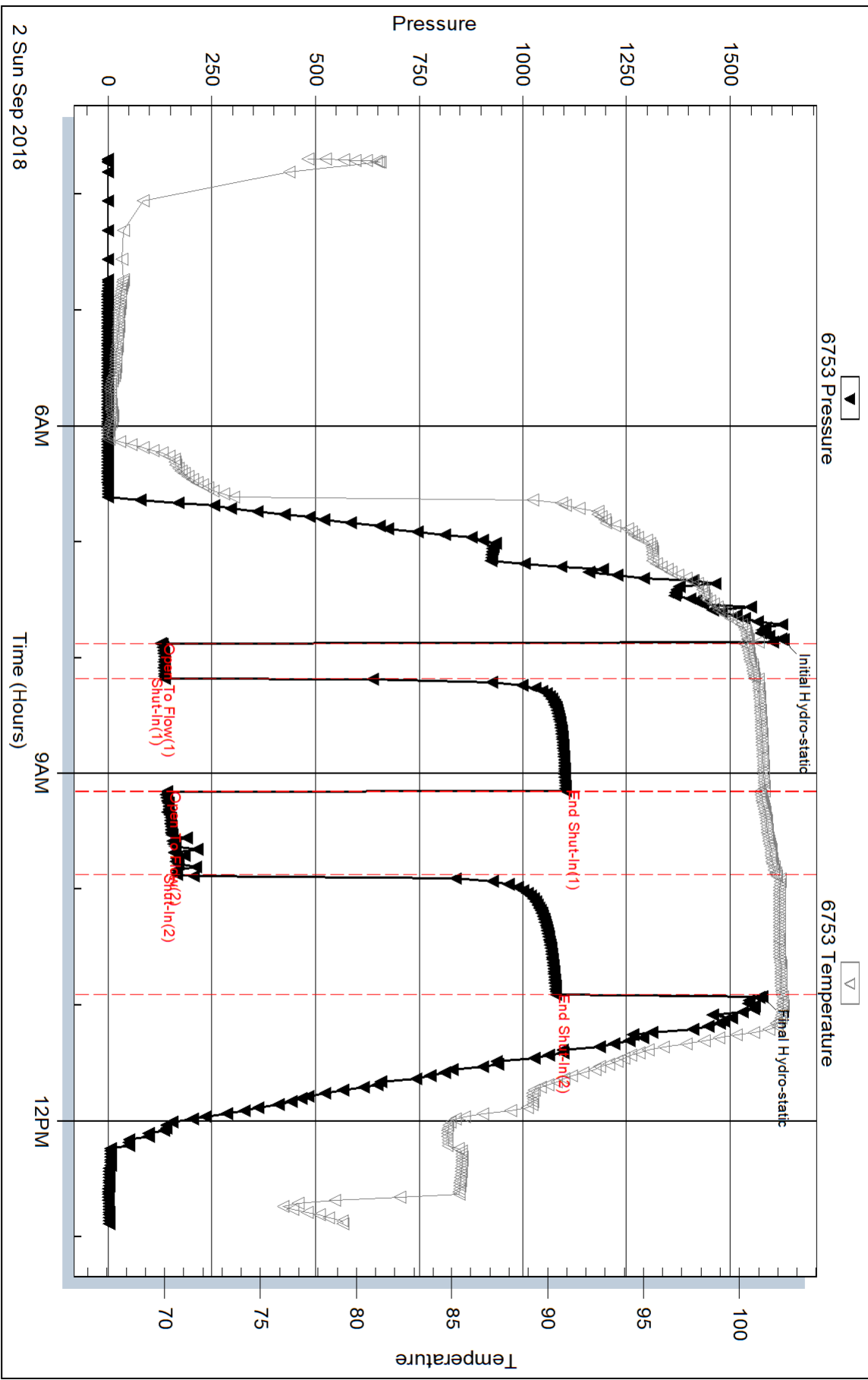
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

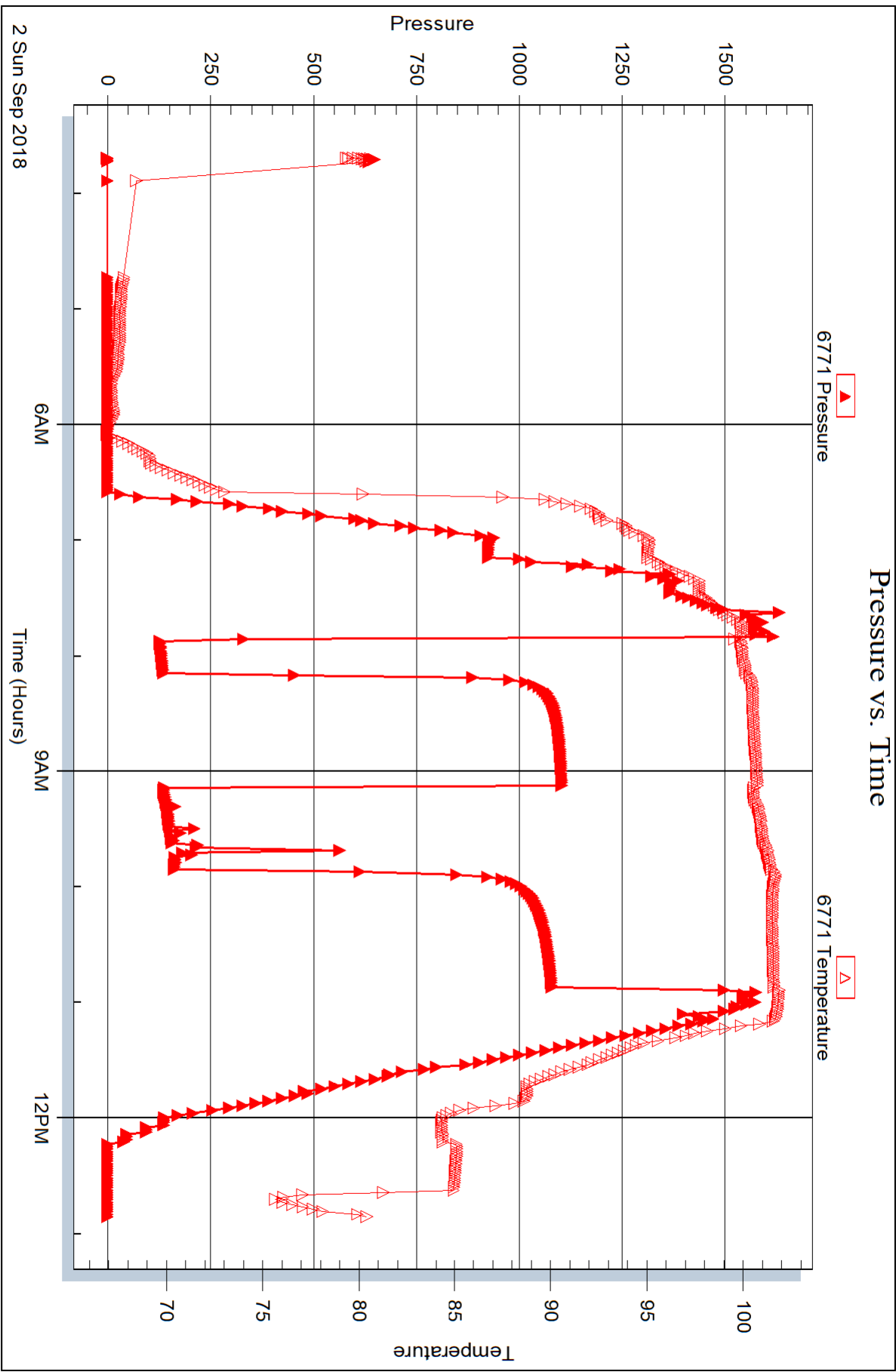


Serial #: 6771

Outside Anchor Bay Petroleum, LLC

Hazen #1

DST Test Number: 1





DRILL STEM TEST REPORT

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

1952 Victoria Rd.
Hays, KS 67601

ATTN: Ed Glassman

Hazen #1

19-8S-18W Rooks,KS

Start Date: 2018.09.03 @ 13:56:51

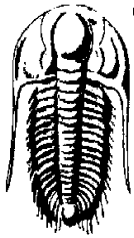
End Date: 2018.09.03 @ 19:02:21

Job Ticket #: 63144 DST #: 2

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

Printed: 2018.09.05 @ 13:49:31

Anchor Bay Petroleum, LLC
19-8S-18W Rooks,KS
Hazen #1
DST # 2
LKC-"I-K"
2018.09.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63144

DST#: 2

ATTN: Ed Glassman

Test Start: 2018.09.03 @ 13:56:51

GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:51

Time Test Ended: 19:02:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3386.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 2045.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6753

Inside

Press@RunDepth: 19.46 psig @ 3387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.03

End Date:

2018.09.03

Last Calib.:

2018.09.03

Start Time:

13:56:56

End Time:

19:02:20

Time On Btm:

2018.09.03 @ 16:03:21

Time Off Btm:

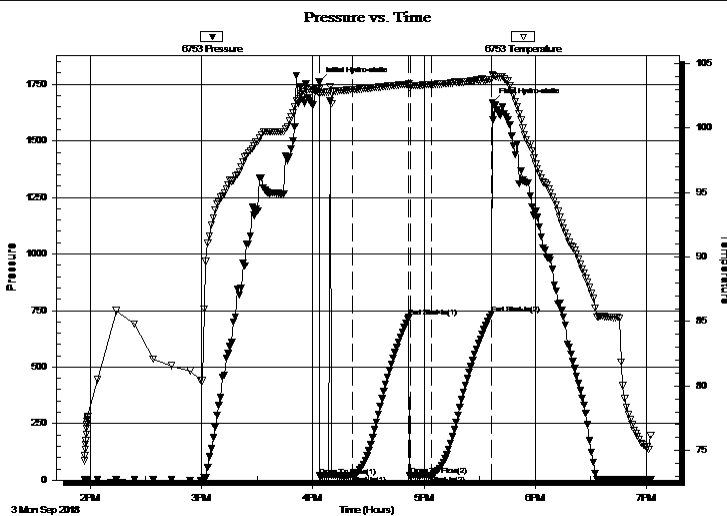
2018.09.03 @ 17:36:51

TEST COMMENT: 15- IF- Weak surface blow died in 1 min. Flushed tool. No blow

30- IS- No blow

15- FF- No blow

30- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.97	103.01	Initial Hydro-static
1	18.46	102.68	Open To Flow (1)
18	19.79	102.96	Shut-In(1)
49	720.68	103.38	End Shut-In(1)
50	19.58	103.26	Open To Flow (2)
61	19.46	103.35	Shut-In(2)
93	735.36	103.74	End Shut-In(2)
94	1668.91	104.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14
2.00	CO	0.03

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

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63144

DST#: 2

ATTN: Ed Glassman

Test Start: 2018.09.03 @ 13:56:51

Tool Information

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.82 inches	Volume: 48.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	56000.00 lb
Drill Pipe Above KB:	34.00 ft			Final	56000.00 lb
Depth to Top Packer:	3386.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	84.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3367.00	
Shut In Tool	5.00			3372.00	
Hydraulic tool	5.00			3377.00	
Packer	5.00			3382.00	20.00 Bottom Of Top Packer
Packer	4.00			3386.00	
Stubb	1.00			3387.00	
Recorder	0.00	6753	Inside	3387.00	
Recorder	0.00	6771	Outside	3387.00	
Perforations	26.00			3413.00	
Change Over Sub	1.00			3414.00	
Drill Pipe	32.00			3446.00	
Change Over Sub	1.00			3447.00	
Bullnose	3.00			3450.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63144

DST#: 2

ATTN: Ed Glassman

Test Start: 2018.09.03 @ 13:56:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.142
2.00	CO	0.028

Total Length: 12.00 ft

Total Volume: 0.170 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

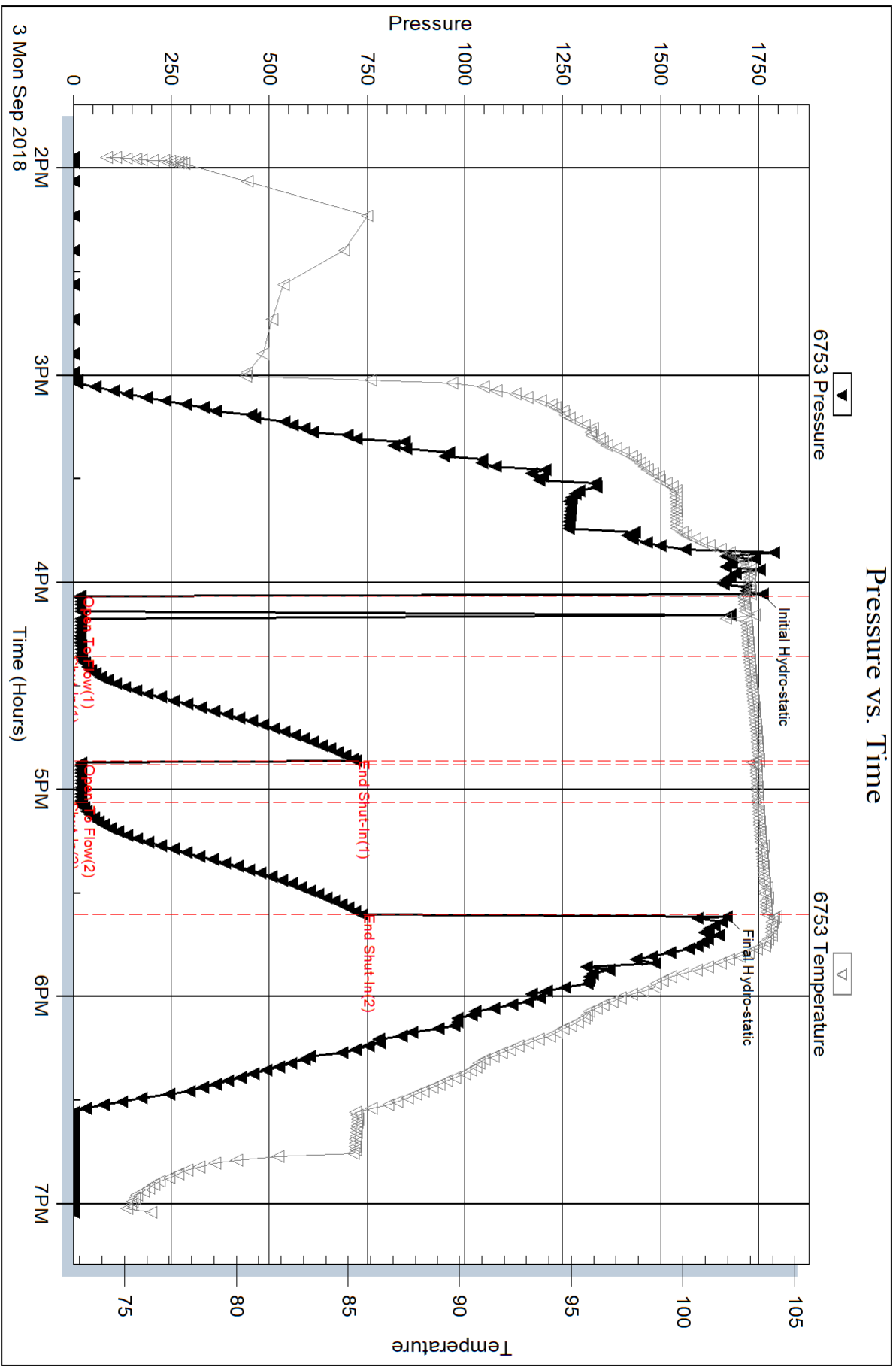
Serial #: 6753

Inside

Anchor Bay Petroleum, LLC

Hazen #1

DST Test Number: 2

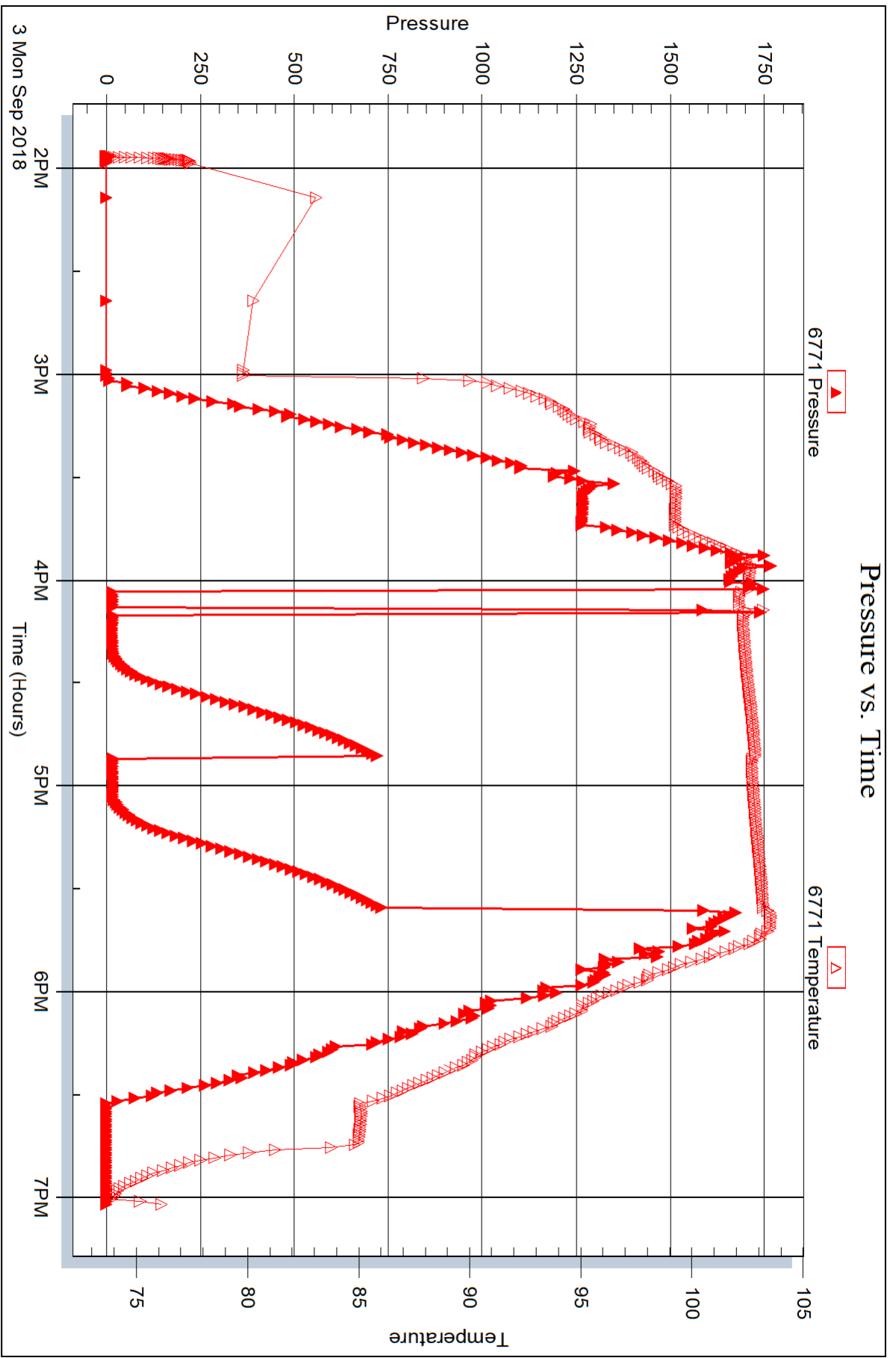


Serial #: 6771

Outside Anchor Bay Petroleum, LLC

Hazen #1

DST Test Number: 2





DRILL STEM TEST REPORT

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

1952 Victoria Rd.
Hays, KS 67601

ATTN: Ed Glassman

Hazen #1

19-8S-18W Rooks,KS

Start Date: 2018.09.04 @ 12:34:09

End Date: 2018.09.04 @ 19:41:30

Job Ticket #: 63145 DST #: 3

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

Printed: 2018.09.05 @ 13:48:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63145

DST#: 3

ATTN: Ed Glassman

Test Start: 2018.09.04 @ 12:34:09

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:30

Time Test Ended: 19:41:30

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3270.00 ft (KB) To 3304.00 ft (KB) (TVD)

Reference Elevations: 2045.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2038.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6771

Outside

Press@RunDepth: 59.10 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.04

End Date:

2018.09.04

Last Calib.: 2018.09.04

Start Time: 12:34:10

End Time:

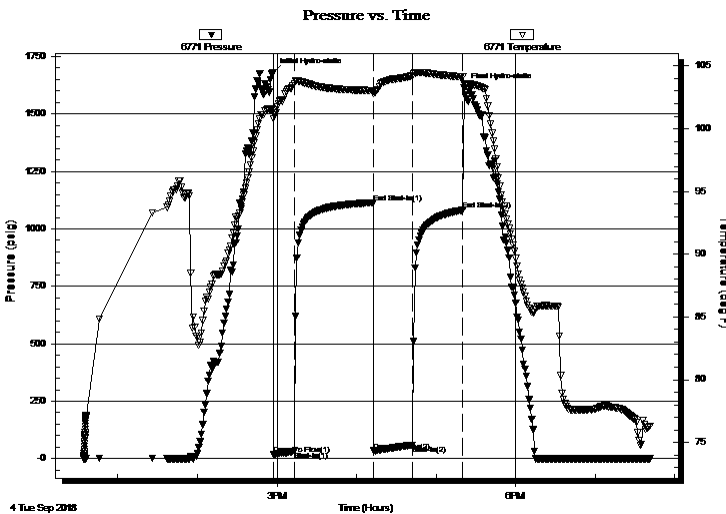
19:41:30

Time On Btm: 2018.09.04 @ 14:57:15

Time Off Btm: 2018.09.04 @ 17:21:15

TEST COMMENT: 15- IF- Slow ly built to 2 1/4"
60- IS- No blow
30- FF- Slow ly built to 5 1/2"
40- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.77	101.48	Initial Hydro-static
1	17.91	100.81	Open To Flow (1)
16	32.08	103.60	Shut-In(1)
76	1114.65	103.04	End Shut-In(1)
76	33.97	102.81	Open To Flow (2)
105	59.10	104.20	Shut-In(2)
143	1081.94	104.14	End Shut-In(2)
144	1612.39	103.58	Final Hydro-static

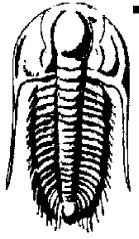
Recovery

Length (ft)	Description	Volume (bbl)
96.00	MW, 40%M 60%W	1.36

* 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

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63145

DST#: 3

ATTN: Ed Glassman

Test Start: 2018.09.04 @ 12:34:09

Tool Information

Drill Pipe:	Length: 3272.00 ft	Diameter: 3.82 inches	Volume: 46.38 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3270.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	3304.00 ft				
Interval between Packers:	34.00 ft				
Tool Length:	300.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	20.00 Bottom Of Top Packer
Packer	4.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6753	Inside	3271.00	
Recorder	0.00	6771	Outside	3271.00	
Perforations	29.00			3300.00	
Blank Off Sub	1.00			3301.00	
Blank Spacing	3.00			3304.00	34.00 Tool Interval
Packer	1.00			3305.00	
Stubb	1.00			3306.00	
Perforations	14.00			3320.00	
Change Over Sub	1.00			3321.00	
Recorder	0.00	8367	Below	3321.00	
Drill Pipe	225.00			3546.00	
Change Over Sub	1.00			3547.00	
Bullnose	3.00			3550.00	246.00 Bottom Packers & Anchor

Total Tool Length: 300.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum, LLC

19-8S-18W Rooks,KS

1952 Victoria Rd.
Hays, KS 67601

Hazen #1

Job Ticket: 63145

DST#: 3

ATTN: Ed Glassman

Test Start: 2018.09.04 @ 12:34:09

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:

85000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
96.00	MW, 40%M 60%W	1.361

Total Length: 96.00 ft Total Volume: 1.361 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

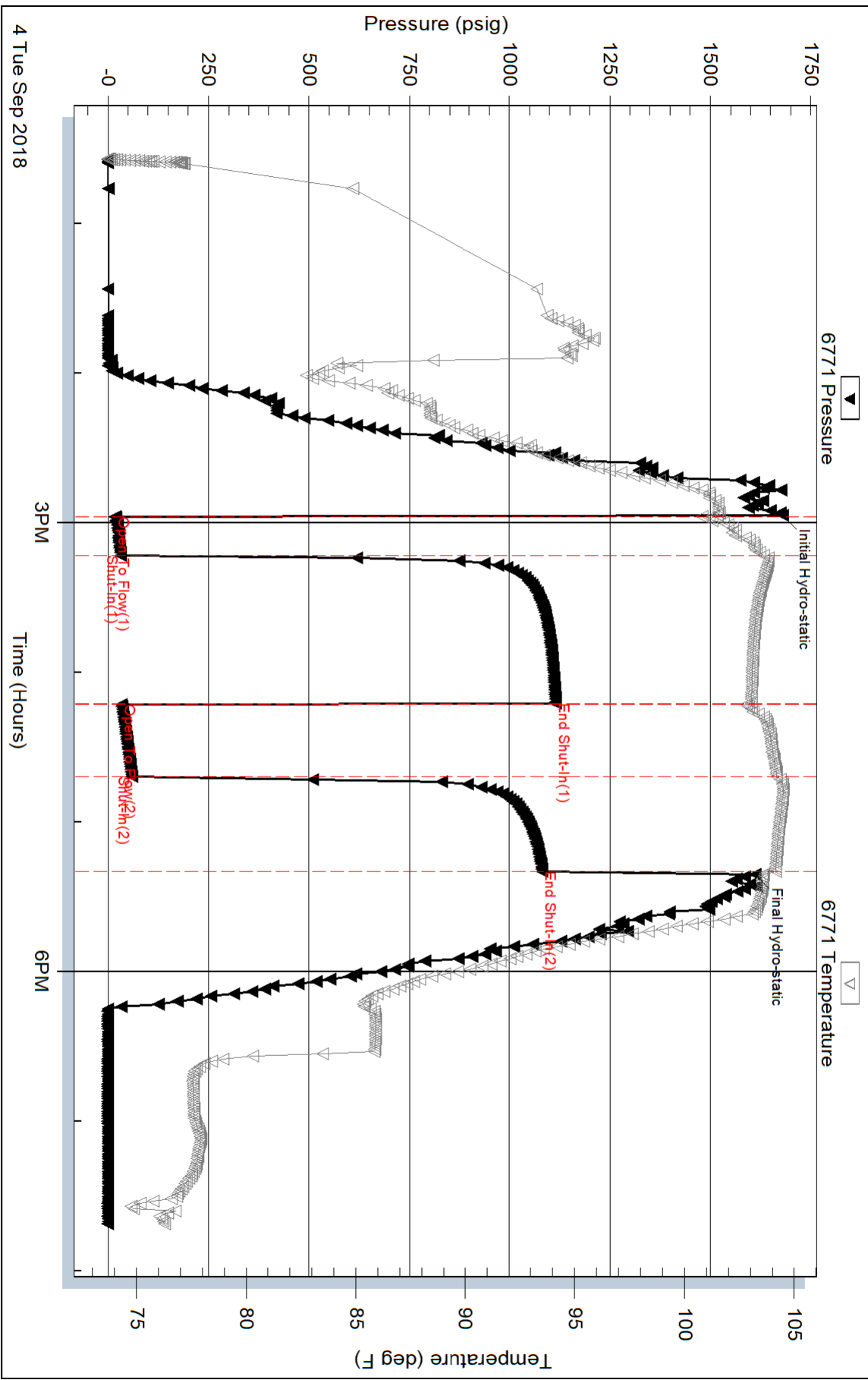
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .07@77deg

Pressure vs. Time



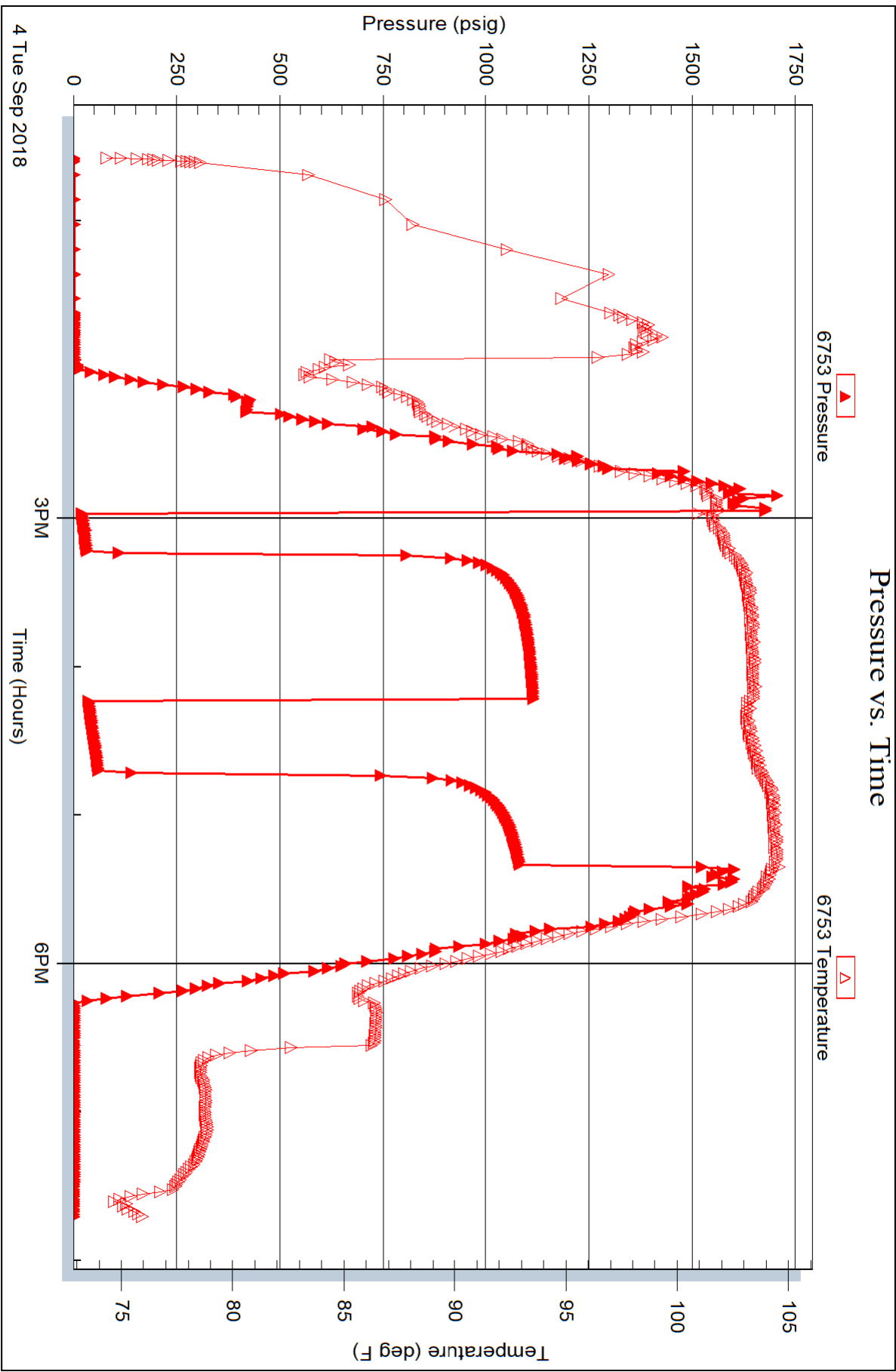
Serial #: 6753

Inside

Anchor Bay Petroleum, LLC

Hazen #1

DST Test Number: 3

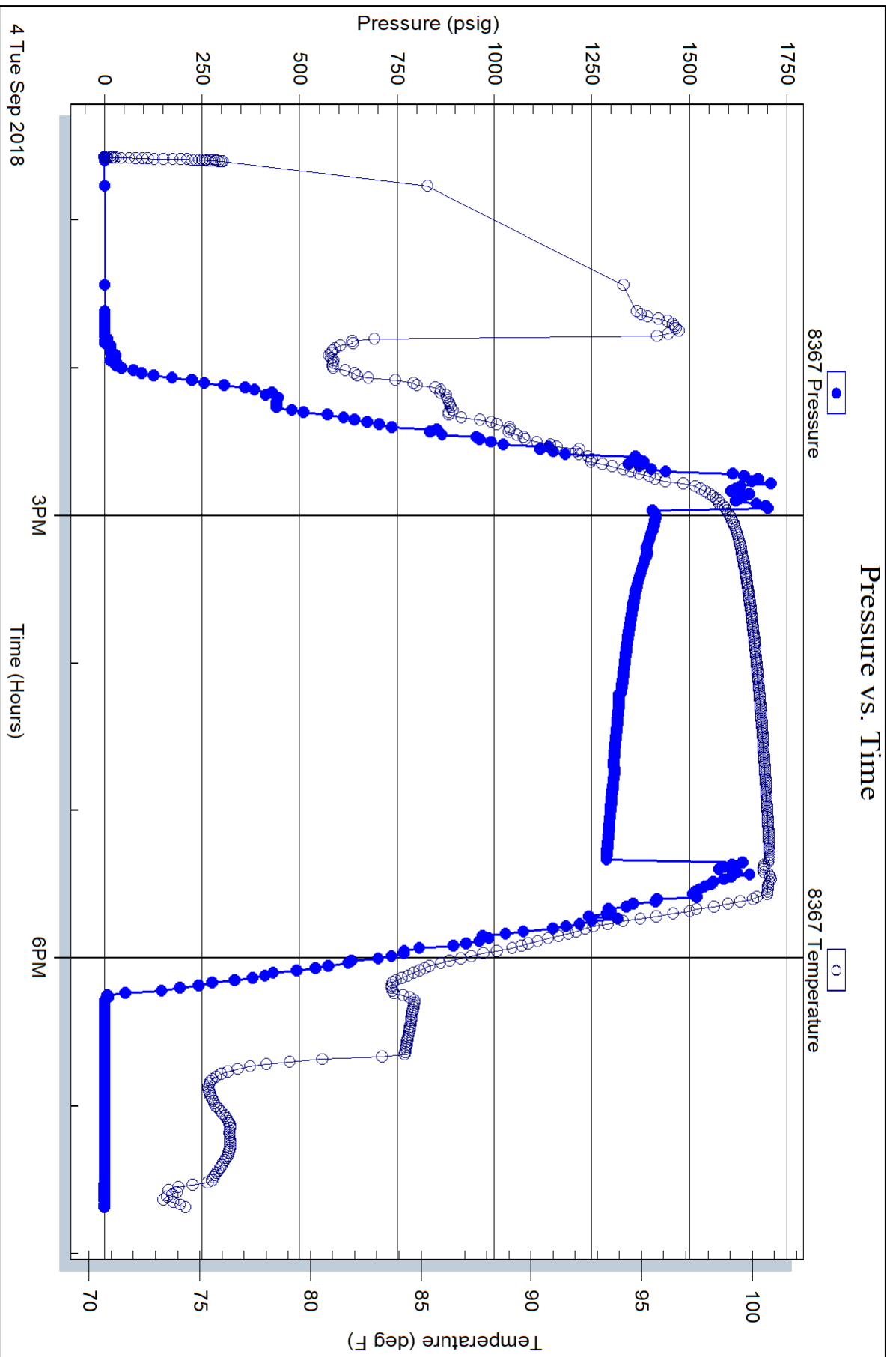


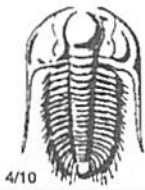
Serial #: 8367

Below (Stratfield) Bay Petroleum, LLC

Hazen #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63143

Well Name & No. Hazen #1 Test No. 1 Date 9/2/18
 Company Anchor Bay Petroleum, LLC Elevation 2045 KB 2038 GL
 Address 1952 Victoria Rd. Hays, KS 67601
 Co. Rep / Geo. Ed Classman Rig Royal #2
 Location: Sec. 19 Twp. 8 S Rge. 18 W Co. Rooks State KS

Interval Tested 3211-3285 Zone Tested Toronto-LKC "C"
 Anchor Length 74' Drill Pipe Run 3208 Mud Wt. 8.9
 Top Packer Depth 3206 Drill Collars Run — Vis 56
 Bottom Packer Depth 3211 Wt. Pipe Run — WL 6.0
 Total Depth 3285 Chlorides 1,900 ppm System LCM 2#

Blow Description IF - Weak surface blow
ISF - No blow
PF - Built slowly to 1"
FSI - No blow

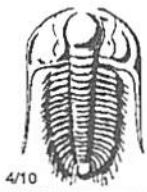
Rec	Feet of	%gas	%oil	%water	%mud
<u>288</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 288 BHT 102° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1627</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0305</u>
(B) First Initial Flow <u>127</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>0341</u>
(C) First Final Flow <u>137</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>0751</u>
(D) Initial Shut-In <u>1103</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1051</u>
(E) Second Initial Flow <u>142</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1251</u>
(F) Second Final Flow <u>167</u>	<input checked="" type="checkbox"/> Mileage <u>74 BT</u> <u>74</u>	Comments <u>—</u>
(G) Final Shut-In <u>1080</u>	<input type="checkbox"/> Sampler <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
(H) Final Hydrostatic <u>1577</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>—</u>	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Total <u>1124</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	MP/DST Disc't <u>—</u>
	<input type="checkbox"/> Accessibility <u>—</u>	
	Sub Total <u>1124</u>	

Approved By _____

Our Representative
Brannan Lonsdak



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63144

Well Name & No. Hazen #1 Test No. 2 Date 9/3/18
 Company Anchor Bay Petroleum, LLC Elevation 2045 KB 2038 GL
 Address 1952 Victoria Rd. Hays, KS 67601
 Co. Rep / Geo. Ed Classman Rig Royal #2
 Location: Sec. 19 Twp. 8 S Rge. 18 W Co. Rooks State KS

Interval Tested 3386-3450 Zone Tested LISC "I-K"
 Anchor Length 64' Drill Pipe Run 3400 Mud Wt. 9.3
 Top Packer Depth 3381 Drill Collars Run --- Vis 52
 Bottom Packer Depth 3386 Wt. Pipe Run --- WL 7.4
 Total Depth 3450 Chlorides 3,200 ppm System LCM 2th

Blow Description IF - Weak surface blow died 1 min. Flushed to 1 No blow
ISF - No blow
FF - No blow
FISF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
<u>2</u>	<u>CO</u>				

Rec Total 12' BHT 104° Gravity 34 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic 1761 Test 1050 T-On Location 1345
 (B) First Initial Flow 18 Jars _____ T-Started 1356
 (C) First Final Flow 20 Safety Joint _____ T-Open 1603
 (D) Initial Shut-In 221 Circ Sub _____ T-Pulled 1733
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 1902
 (F) Second Final Flow 20 Mileage 74 RT 74 Comments _____
 (G) Final Shut-In 235 Sampler _____
 (H) Final Hydrostatic 1669 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Sub Total 1124

Sub Total 1124

MP/DST Disc't _____

Approved By _____

Our Representative
Brennan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63145

Well Name & No. Hazen #1 Test No. 3 Date 9/4/18
 Company Anchor Bay Petroleum, LLC Elevation 2045 KB 2038 GL
 Address 1952 Victoria Bld. Hays, KS 67601
 Co. Rep / Geo. Ed Classman Rig Royal #2
 Location: Sec. 19 Twp. 8 S Rge. 18 W Co. Rooks State KS

Interval Tested 3270-3304 Zone Tested LKC "C"
 Anchor Length 34' - Tail-246' Drill Pipe Run 3272 Mud Wt. 9.4
 Top Packer Depth 3265-3270 Drill Collars Run _____ Vis 59
 Bottom Packer Depth 3270 3304 Wt. Pipe Run _____ WL 7.8
 Total Depth 3550 Chlorides 3,300 ppm System LCM 2H

Blow Description IF - slowly built to 2 1/4"
FSI - No blow
PF - slowly built to 5 1/2"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>96</u>	<u>MW</u>			<u>60</u>	<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 96' BHT 104° Gravity _____ API RW .07 @ 77 °F Chlorides 85,000 ppm
 (A) Initial Hydrostatic 1681 Test 1050 T-On Location 1205
 (B) First Initial Flow 18 Jars _____ T-Started 1234
 (C) First Final Flow 32 Safety Joint _____ T-Open 1457
 (D) Initial Shut-In 1115 Circ Sub _____ T-Pulled 1722
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 1942
 (F) Second Final Flow 59 Mileage 74 RT 74 Comments _____
 (G) Final Shut-In 1082 Sampler _____
 (H) Final Hydrostatic 1612 Straddle 600 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Initial Open 15 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1974
 Final Shut-In 40 Accessibility _____ MP/DST Disc't _____
 Sub Total 1974

Approved By _____

Our Representative

Brauman Lonsdale

#301

QUALITY OILWELL CEMENT

Federal Tax I.D.# 20-2886107

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

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

Date	Sec.	Twp.	Range	County	State	Finish On Location	
8-29-18	19	8	18	Rooks	KS	4:00AM	4.

Location Planville 2W 14Rd 5N Q Rd 1/2W

Lease Hazen	Well No. #1	Owner
Contractor Royal #2		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 Surface		
Hole Size 12 1/4	T.D. 223'	Charge To Anchor Bay
Csg. 8 5/8	Depth 223'	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 20'	Shoe Joint	Cement Amount Ordered 150 80/100 3% cc 2% Gel
Meas Line	Displace 12 3/4	

EQUIPMENT

Pumptrk 5	No. Cementer	Common 120
	Helper Brett	Poz. Mix 30
Bulktrk 3	No. Driver	Gel. 3
	Driver Jim	Calcium 6
Bulktrk	No. Driver	
	Driver	

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
	Sand

Ran 223' 8 5/8 + Est cir
 Mix 150 ex
 Displaced 12 3/4 bbl
 cement circulated

FLOAT EQUIPMENT

Handling 159	Guide Shoe
Mileage	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



Shaw 23

Pumptrk Charge Surface	
Mileage 33	

X Signature Long Budy

Ticket #301	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

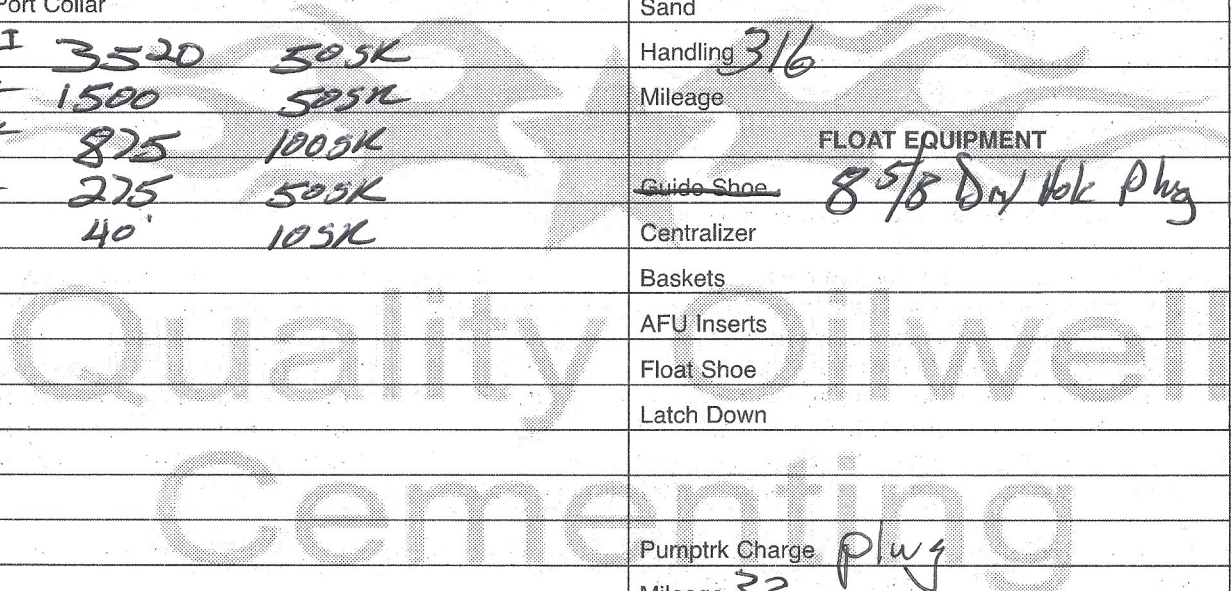
Federal Tax I.D.# 20-2886107

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

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

No. 1002

Date	9-5-18	Sec.	19	Twp.	8	Range	18	County	Rooks	State	KS	On Location		Finish	1:00 PM
Lease								Well No. 1	Owner						
Contractor								To Quality Oilwell Cementing, Inc.							
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size								T.D.		Charge To					
Csg.								Depth		Street					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace							
EQUIPMENT								Common							
Pumptrk								No.		Cement					
Bulktrk								No.		Helper					
Bulktrk								No.		Driver					
Bulktrk								No.		Driver					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
1st								Handling							
2nd								Mileage							
3rd								FLOAT EQUIPMENT							
4th								Guide Shoe							
5th								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature															



X Signature

Tax
Discount
Total Charge